| From: | $\underline{\text { Charlene Lum }}$ |
| :--- | :--- |
| To: | $\underline{\text { OE.Elections }}$ |
| Subject: | [EXTERNAL] Investigation on Hawaii Elections |
| Date: | Wednesday, March 30, 2022 3:21:29 PM |

Election committee,

I am in support and in agreement that Hawaii‘s voting system need to be investigated. Even mail-in ballots should be reconsidered. With all the people that chose to go to the few precincts to vote, I fail to see how mail-in ballots passed.
When you look at the percentage of votes in the 2020 election, there seems to be an usually high number of votes for the democratic presidential candidate, more than when our hometown candidate ran in 2008 and 2012. There is a need to assure the people of Hawaii that our government is not run by a manipulated system. An unbiased investigation is needed to continue to live in democracy.

Sincerely,
Charlene Lum

Sent from my iPhone

| From: | Ralph Cushnie |
| :--- | :--- |
| To: | $\underline{\text { OE.Elections }}$ |
| Subject: | [EXTERNAL] April 1 Elections Commission Meeting Election Audit |
| Date: | Wednesday, March 30, 2022 4:36:18 PM |

I fully support an audit of the 2020 election. Mail in voting has been sited as the number one way to commit election fraud. The voting roles should be checked. The envelopes should be checked to make sure all signatures match up with signatures on file.

## Ralph Cushnie

```
From: Pamela Reasoner
To: OE.Elections
Subject:
Date:
[EXTERNAL] INVESTIGATE 2020 HAWAII GENERAL ELECTION

\section*{TESTIMONY IN SUPPORT OF AN INVESTIGATION OF THE INTEGRITY OF THE HAWAII GENERAL ELECTION}

Our last election gave me great concern relative to Hawaii's election integrity.
1. There was a deadline and then the deadline kept getting extended to the last day of voting. That is not right or legal. Why did that happen? We must keep deadlines.
2. Before the polls were closed a decision went out on who was the president. That is not prudent and raises questions on the integrity of the election process.
3. I am also concerned about the authenticity of checking the people qualified to vote. I do not know if there were equal number of different parties poll watching. As much as possible, we need to maintain balance and fairness among
parties in this process.

These questions and concerns need to be addressed in order for us to have elections with integrity going forward.
\begin{tabular}{ll} 
From: & Lawrence Ramirez \\
To: & \(\underline{\text { OE.Elections }}\) \\
Subject: & [EXTERNAL] Investigation of 2020 Elections \\
Date: & Wednesday, March 30, 2022 5:37:23 PM
\end{tabular}

Facts in written testimonials, and video prove beyond a reasonable doubt that the 2020 Elections were fraudulent. If you have belive otherwise lets audit to see what is the truth. Mail in ballots, Counting Machines and Democratic leadership have had STATE SPONSERED MEDIA OUTLETS spinning propaganda and lies about candidates to sway opinion and shut out any opposition since 2016. The Corona Virus lords have been slinging lies belittling Real Science in exchange for Paid Opinions in order to shutdown society especially to make Universal Mail in Ballots legal. The Mail in Ballots were only used an opportunity to cheat. If you actually allow independent Forensic Audits this will be revealed.

Perpetrators must be held liable. State Sponsered Media is complicit. Elections Fraud is Treason.

Lawrence Ramirez
Po Box 4610
Kailua-Kona, Hawaii 96745
Sent via Samsung
\begin{tabular}{ll} 
From: & Shkpah7@protonmail.com \\
To: & \(\underline{\text { OE.Elections }}\) \\
Subject: & [EXTERNAL] Election verification and public trust \\
Date: & Wednesday, March 30, 2022 6:25:43 PM
\end{tabular}

\author{
Aloha, \\ I strongly support an audit of our last election, and an investigation of our election system. Specifically, I would like to know how there were more votes cast than envelopes the ballots arrived in? \\ How is the Hawaii election system safe-guarded against fraud? How can it be proven that there was no fraud in the 2020 election? \\ How were signatures verified? \\ Sincerely, \\ Scott Shedko
}

Sent from ProtonMail for iOS
\begin{tabular}{ll} 
From: & \(\underline{\text { Victor Muh }}\) \\
To: & \(\underline{\text { OE.Elections }}\) \\
Subject: & [EXTERNAL] Investigation of Hawai"i General Election 2020 \\
Date: & Wednesday, March 30, 2022 11:59:59 PM
\end{tabular}

I support an investigation into the Hawai'i General Election 2020. We must be certain that our elections are free from corruption. It is always better to err on the side of caution.

Mahalo.
\begin{tabular}{ll} 
From: & PATRICIA HARNISH \\
To: & \(\underline{\text { OE.Elections }}\) \\
Subject: & [EXTERNAL] Support for item IV \\
Date: & Thursday, March 31, 2022 1:53:47 PM
\end{tabular}

I support item IV with regard to agenda items for the election commission meeting on April 1, 2022. I support an investigation of the 2020 general election in Hawaii.
Patricia Harnish

Sent from my iPhone
\begin{tabular}{ll} 
From: & \(\underline{\text { Jackie Bejo }}\) \\
To: & \(\underline{\text { OE.Elections }}\) \\
Subject: & [EXTERNAL] Election fraud \\
Date: & Thursday, March 31, 2022 5:46:43 PM
\end{tabular}

Aloha, My name is Jackie Bejo and I am writing this because I am very concerned about our right to vote and a rigged election! I am praying and believing Hawaii will be granted a recount for last election. We need a better system to make sure every cote counts! We need hard laws for those that think it's ok to commit voter fraud. This has to stop and action needs to be taken I will be voting in person and praying to Almighty God that my vote counts and that this injustice be dealt with and those that are behind this will be revealed! I have faith in God to help us uphold our Constitutional Rights! Please realize people that cheat, lie and sell out our Country never prosper most of the time thieves don't get to enjoy their money and their mansions lay desolate and the righteous win in the end everytime! Praise Jesus! I expect change! Take care and God bless Hawaii with the spirit of truth! Jackie Bejo

Sent from Mail for Windows

HAWAII GOVERNMENT EMPLOYEES ASSOCIATION

RANDY PERREIRA, Executive Director - Tel: 808.543.0011 - Fax: 808.528.0922
AFSCME
LOCAL 152, AFL-CIO

State of Hawaii
Elections Commission Meeting
Testimony by
Hawaii Government Employees Association
April 1, 2022
Agenda Item V: Consideration of Investigation into the 2020
Hawaii Election operations of each County's Office of Elections

The Hawaii Government Employees Association, AFSCME Local 152, AFL-CIO strongly opposes the purpose and intent of Agenda Item V which is a consideration of investigation into the 2020 Hawaii election operations of each County's Office of Elections, as it is unfounded and unnecessary.

The facts are simple and clear: the Cybersecurity and Infrastructure Security Agency stated that the 2020 elections were the most secure in our nation's history. Additionally, the State Office of Elections has already completed a comprehensive audit and review of the 2020 elections immediately following the election. An additional and unnecessary election review will likely exceed several hundred thousand dollars which will be borne by the taxpayers. We echo the sentiments of millions of voters across the country and unequivocally state that the 2020 election was secure, safe, and legitimate. Therefore, no time, money, resources, or energy should be wasted on conducting another review.

We implore the Office of Elections to instead focus its resources on preparing for the upcoming 2022 elections, particularly since it is a reapportionment election year. We anticipate this will be a large-scale undertaking that must include statewide, multi-lingual, and multi-pronged efforts to educate the public on the new congressional, state, and county district lines and the vote-by-mail election process.

Thank you for the opportunity to provide testimony opposing this frivolous investigation.


\section*{Additional comments on Election Inquiries:}
\#1 Requires much more technical in-depth discussion, but the ListID contains decodable information external to the database fields.
\#2-\#5 A manual audit certification as prescribe by law would suffice.
\#6 I was made aware the Commissioners were not provided copies of
- Mar 18 Attachment B, any questions to why 33 of 46 transactions were on 2/22/2017?
- Mar 18 Attachment C, taking into account "possible" under-18 pre-registrations, 49 of 99 registered on \(7 / 11 / 2019\) ?
\#7 Please see graph of daily voter registrations 2017-2021. Expected spikes on Primary and General Election Day and registration "deadlines," what were the others?
\#8 Please see official Kauai election reports from 2020 and 2022. With infusion of private CTCL funds for government work in Honolulu, Maui and Hawaii Counties, what was the true cost of Elections by Mail?

\section*{Comments on systemic problems or lack of maintenance. What's the impact?}

Table 1 Non-Voting Registrations through 4 Elections Still Marked Active - 83,961
Table 2 Voting Registrations Marked Inactive - 10,662 (w/ 1,159 post 11/3/2020 transactions)
- 3732 Voted 2018 Primary
- 9613 Voted 2018 General
- 272 Voted 2020 Primary (Did they receive a ballot in the mail?)
- 37 Voted 2020 General

Table 3 Honolulu Active Registered Voters April 30, 2020 through Feb 20, 2021 not on Early Voter Ballot File Oct 27, 2020
- 15,373 Active Registered Voters did not receive Mail-In Ballots
- 394 Voted AB Walk
- 22 Voted PAB
- 3 Voted FPCA
- 2 Voted AB Mail
- 4 Not on Time

\section*{Examples}
1. KWP - voted in every election, sent in signature card, still didn't get a ballot in the 2020 Primary, had to a walk-in
2. JMS - daughter moved to Utah in 2015 and registered to vote there, registration updated 9/11? received her Hawaii ballot at mailing address but not on the 10/27/2020 Early Voter File.
3. RJM - son moved away in 2002, never registered to vote, received his Hawaii ballot; daughter moved away in 2003 and registered to vote in Colorado, received her Hawaii ballot
4. KRD - did not vote in Primary, but vote recorded for him in Primary
5. DAL - received three ballots in the mail, voted by mail, vote is not recorded, in addition
a. Former resident KHK is deceased, received ballot
b. RSC is mentally incapacitated for over 30 years, received ballot, and voted 10/13/2020
c. SSC did not register, received ballot
d. MST moved from inactive status, received ballot, vote recorded 10/24/2020
e. CCR no longer resident, received ballot, vote recorded PAB 10/13/2020
f. JJR no longer resident, received ballot
6. AKT - incapacitated in 2019, vote recorded PAB
7. RKH - brother moved to Nevada in 1999, received his Hawaii ballot; sister moved in 2003/04 and registered to vote in Maryland, received her Hawaii ballot
8. HV - son moved to Arkansas in 2018, not on 10/27/2020 Early Voter File but received his Hawaii ballot
9. CKG - 8 children, 7 are registered to vote in Hawaii, 4 questionable registrations
a. Son KAG was incarcerated, but received his Hawaii ballot
b. Sons KRG (with misspelled name) moved to Arizona 5 years ago, received his Hawaii ballot
c. Daughter KKG, duplicate registrations, did not register to vote in Hawaii
d. Son KARG, moved away and registered to vote in North Carolina since 2014
10. RMD - receive two Mail-In ballots for each family member
11. MK - received two Mail-In ballots

\section*{Election Inquiry \#1}

12/21/21 Issue: UUID codes for ListID
12/28/21 Response: Not disclosed to safeguard critical infrastructure 12/28/21 Follow-up: Request Elections Commission review
1/20/22 Response: OE Letter to Elections Commission addresses the function of the ListID, but does not fully address security issue

Who provides oversight of security protocols? Is Commission aware of security vulnerabilities?

\title{
Election Inquiry \#2
}

\section*{12/23/21 Issue: County envelope vs State ballot counts}

\section*{12/30/21 Response: Summary of Reconciliation worked with County}

1/3/22 Follow-up: numbers still don't match

\section*{Request physical count of all envelopes. Request physical count of all ballots.}

52 USC 20701. Retention and preservation of records and papers by officers of elections; deposit with custodian; penalty for violation Every officer of election shall retain and preserve, for a period of twenty-two months from the date of any general, special, or primary election of which candidates for the office of President, Vice President, presidential elector, Member of the Senate, Member of the House of Representatives, or Resident Commissioner from the Commonwealth of Puerto Rico are voted for, all records and papers which come into his possession relating to any application, registration, payment of poll tax, or other act requisite to voting in such election, except that, when required by law, such records and papers may be delivered to another officer of election and except that, if a State or the Commonwealth of Puerto Rico designates a custodian to retain and preserve these records and papers at a specified place, then such records and papers may be deposited with such custodian, and the duty to retain and preserve any record or paper so deposited shall devolve upon such custodian. Any officer of election or custodian who willfully fails to comply with this section shall be fined not more than \(\$ 1,000\) or imprisoned not more than one year, or both.

\section*{Election Inquiry \#3}

12/27/21 Issue: Precinct 39-5, 9 registered voters, 12 ballots counted

1/27/22 Response: A check of automated reports was conducted. No physical check of ballots was conducted.
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Request complete audit of Precinct 39-5.

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\section*{Election Inquiry \#4}

12/30/21 Issue: Manual Audit Certification
1/3/22 Response: Procedures done by Districts
1/4/22 Follow up: documentation of manual audit by Precincts
1/27/22 Confirmed: Manual Audit was not done by Precinct as required by law.

> Request manual audit conducted by Precincts as required by law.
> Request supporting documentation.

\section*{Election Inquiry \#5}

1/5/22 Issue: Early Voter File vs Honolulu Report

No response as of \(1 / 11 / 22\)
No response as of \(3 / 18 / 22\)

\section*{Election Inquiry \#6}
\(3 / 14 / 22\) Issue: Four unusual names of signature verified votes in the 2020 General Election

3/16/22 Response: One registered voter has legal single name
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Were all four names checked for valid documentation to register to vote? Were all four ballots checked for matching signatures on ballot envelope?

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\section*{Election Inquiry \#7}

3/14/22 Issue: Inconsistencies appear in voter registration database.
- Backdated transactions appear in later updates
- Backdated registrations appear in later updates

3/16/22 Response: Ongoing adjustments to administrative upkeep for recording Last
Transaction and Registration Dates
- 16-year-old pre-registrations are not uploaded until they turn 18.
- Previously cancelled registration are reactivated

This is a systemic problem, and still does not explain how registrations with Registration Date and Last Transaction Date more than 2 years prior to 4/30/2020 are also appearing in the 9/22/2021 data file. Who is authorized access to make and update changes to the voter registrations?

\section*{Election Inquiry \#8}
\(3 / 14 / 22\) Issue: One quarter of all registration are new registrations in last 5 years

3/16/22 Response: Cancelled registration may appear as new registrations
This is a systemic problem. Some older cancelled registrations are reappearing with old registrations dates. Some older cancelled registrations are reappearing with new registration dates. Who is authorized access to make and update changes to the voter registrations?

\section*{Election Inquiry \#9}

3/14/22 Request review of Kauai Special Elections
\begin{tabular}{|l|c|c|c|}
\hline & \begin{tabular}{l}
2018 Vote By \\
Precinct
\end{tabular} & \begin{tabular}{l}
2020 Elections By \\
Mail
\end{tabular} & \begin{tabular}{l}
2022 Elections By \\
Mail
\end{tabular} \\
\hline \begin{tabular}{l} 
Kauai Voter \\
Participation
\end{tabular} & \(58.1 \%\) & \(72.1 \%\) & \(25.74 \%\) \\
\hline \begin{tabular}{l} 
State Elections \\
Expense/Budget
\end{tabular} & \(\$ 6.5\) million & \(\$ 8.4\) million & \(\$ 8.2\) million \\
\hline
\end{tabular}

No discussion or report as of 3/18/22
Did Elections By Mail increase voter participation? Is Elections By Mail cost effective?

\begin{tabular}{|c|c|}
\hline \begin{tabular}{l}
GENERAL ELECTION 2020 - State of Hawaii - County of Kauai \\
November 3, 2020
\end{tabular} & \multirow[t]{2}{*}{Page 1
Printed on: \(11 / 19 / 2020\) at 10:20:25 am} \\
\hline \begin{tabular}{l}
SUMMARY REPORT \\
**FINAL SUMMARY REPORT**
\end{tabular} & \\
\hline
\end{tabular}
\begin{tabular}{|lrr|}
\hline\({ }^{* *}\) FINAL SUMMARY REPORT** & & \\
\hline President and Vice President & & \\
& & \\
\hline (D) BIDEN / HARRIS & 21,225 & \(62.3 \%\) \\
(R) TRUMP / PENCE & 11,582 & \(34.0 \%\) \\
(L) JORGENSEN / COHEN & 303 & \(0.9 \%\) \\
(G) HAWKINS / WALKER & 254 & \(0.7 \%\) \\
(AS) PIERCE / BALLARD & 77 & \(0.2 \%\) \\
(C) BLANKENSHIP / MOHR & 56 & \(0.2 \%\) \\
\hline \multicolumn{1}{|c|}{ Blank Votes: } & 559 & \(1.6 \%\) \\
\(\quad\) Over Votes: & 25 & \(0.1 \%\) \\
\hline \hline U.S. Representative, Dist II & & \\
& & \\
\hline (D) KAHELE, Kaiali'i (Kai) & 19,880 & \(58.3 \%\) \\
(R) AKANA, Joe & 8,233 & \(24.2 \%\) \\
(A) HOOMANAWANUI, Jonathan & 812 & \(2.4 \%\) \\
(L) TIPPENS, Michelle Rose & 582 & \(1.7 \%\) \\
(N) BURRUS, Ron & 182 & \(0.5 \%\) \\
(AS) GIUFFRE, John (Raghu) & 35 & \(0.1 \%\) \\
\hline \multicolumn{4}{|l|}{ Blank Votes: } & 4,330 & \(12.7 \%\) \\
Over Votes: & 27 & \(0.1 \%\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|crr|}
\hline State Representative, Dist 14 & & \\
& & \\
\hline (D) NAKAMURA, Nadine K. & 7,983 & \(69.7 \%\) \\
(R) MONAS, Steve & 2,490 & \(21.7 \%\) \\
\hline Blank Votes: & 978 & \(8.5 \%\) \\
Over Votes: & 2 & \(0.0 \%\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|crr|}
\hline \hline State Representative, Dist 15 & & \\
& & \\
\hline (D) TOKIOKA, James Kunane & 7,712 & \(66.7 \%\) \\
(R) YODER, Steve & 2,880 & \(24.9 \%\) \\
\hline Blank Votes: & 965 & \(8.3 \%\) \\
Over Votes: & 6 & \(0.1 \%\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|lrr|}
\hline \hline State Representative, Dist 16 & & \\
& & \\
\hline (D) MORIKAWA, Daynette (Dee) & 7,329 & \(66.2 \%\) \\
(R) DES, Ana Mo & 2,611 & \(23.6 \%\) \\
\hline Blank Votes: & 1,121 & \(10.1 \%\) \\
Over Votes: & 4 & \(0.0 \%\) \\
\hline \hline Hawaii Resident Trustee & & \\
& & \\
\hline LINDSEY, Keola & 10,817 & \(31.7 \%\) \\
MANGAUIL, Lanakila & 6,697 & \(19.7 \%\) \\
\hline Blank Votes: & 16,562 & \(48.6 \%\) \\
Over Votes: & 5 & \(0.0 \%\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|lrr|}
\hline Molokai Resident Trustee & & \\
& & \\
\hline ALAPA, Luana & 8,385 & \(24.6 \%\) \\
MACHADO, Colette (Piipii) & 7,903 & \(23.2 \%\) \\
\hline Blank Votes: & 17,789 & \(52.2 \%\) \\
Over Votes: & 4 & \(0.0 \%\) \\
\hline \hline At-Large Trustee & & \\
& & \\
\hline AKINA, Keli'i & 9,153 & \(26.9 \%\) \\
SOUZA, Keoni & 9,118 & \(26.8 \%\) \\
\hline Blank Votes: & 15,803 & \(46.4 \%\) \\
Over Votes: & 7 & \(0.0 \%\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Councilmember, County of Kauai} \\
\hline \multicolumn{3}{|l|}{Number To Vote For: 7} \\
\hline CHOCK, Mason K. & 18,599 & 7.8\% \\
\hline EVSLIN, Luke A. & 17,371 & 7.3\% \\
\hline KANESHIRO, Arryl & 16,556 & 6.9\% \\
\hline CARVALHO, Bernard, Jr. & 16,351 & 6.9\% \\
\hline DeCOSTA, Billy & 14,523 & 6.1\% \\
\hline COWDEN, Felicia & 14,394 & 6.0\% \\
\hline KUALII, KipuKai L.P. & 13,964 & 5.9\% \\
\hline BULOSAN, Addison & 11,744 & 4.9\% \\
\hline WAIALEALE BATTAD, Jade T. & 11,002 & 4.6\% \\
\hline JUSTUS, Ed & 6,601 & 2.8\% \\
\hline DANDURAND, Mike & 6,283 & 2.6\% \\
\hline NISHIMURA, Wally K. & 6,213 & 2.6\% \\
\hline SIMBRE-MEDEIROS, Shirley R. & 5,650 & 2.4\% \\
\hline FUKUSHIMA, Richard S. & 5,039 & 2.1\% \\
\hline Blank Votes: Over Votes: & \[
\begin{array}{r}
74,025 \\
36
\end{array}
\] & \[
\begin{array}{r}
31.0 \% \\
0.1 \%
\end{array}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'I: Negligence Claims} \\
\hline YES & 23,350 & 68.5\% \\
\hline NO & 5,330 & 15.6\% \\
\hline Blank Votes: Over Votes: & \[
\begin{array}{r}
5,394 \\
7
\end{array}
\] & \[
\begin{gathered}
15.8 \% \\
0.0 \%
\end{gathered}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'I: Police Chief Qualifications} \\
\hline YES & 24,351 & 71.5\% \\
\hline NO & 6,342 & 18.6\% \\
\hline Blank Votes: Over Votes: & \[
\begin{array}{r}
3,378 \\
10
\end{array}
\] & \[
\begin{aligned}
& 9.9 \% \\
& 0.0 \%
\end{aligned}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'I: Ethics Disclosures} \\
\hline YES & 26,398 & 77.5\% \\
\hline NO & 3,402 & 10.0\% \\
\hline Blank Votes: Over Votes: & 4,274
7 & \[
\begin{gathered}
12.5 \% \\
0.0 \%
\end{gathered}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'I: Prosecutor Vacancy} \\
\hline YES & 23,861 & 70.0\% \\
\hline NO & 5,616 & 16.5\% \\
\hline Blank Votes: Over Votes: & \[
\begin{array}{r}
4,595 \\
9
\end{array}
\] & \[
\begin{gathered}
13.5 \% \\
0.0 \%
\end{gathered}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'I: County Engineer Qualifications} \\
\hline YES & 21,079 & 61.8\% \\
\hline NO & 8,733 & 25.6\% \\
\hline Blank Votes: Over Votes: & 4,244
25 & \[
\begin{array}{r}
12.5 \% \\
0.1 \%
\end{array}
\] \\
\hline \multicolumn{3}{|l|}{KAUA'l: Water Board Manager Qualifications} \\
\hline YES & 21,073 & 61.8\% \\
\hline NO & 8,748 & 25.7\% \\
\hline Blank Votes: Over Votes: & \[
\begin{array}{r}
4,251 \\
9
\end{array}
\] & \[
\begin{array}{r}
12.5 \% \\
0.0 \%
\end{array}
\] \\
\hline \multicolumn{3}{|l|}{REGISTRATION AND TURNOUT} \\
\hline \multicolumn{3}{|l|}{GENERAL} \\
\hline TOTAL REGISTRATION & 47,253 & \\
\hline TOTAL TURNOUT & 34,081 & 72.1\% \\
\hline MAIL TURNOUT & 31,731 & 67.2\% \\
\hline IN-PERSON TURNOUT & 2,350 & 5.0\% \\
\hline
\end{tabular}
(L) - LIBERTARIAN
(G) - GREEN
Precinct Results Report
\begin{tabular}{l} 
Election Night Reporting \\
\\
Run Time \\
Run Date \\
\end{tabular}\(\quad 8: 58\) PM

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 1
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 109 & 15.87\% & 0 & 0.00\% & 109 & 15.84\% \\
\hline LIKE, Rebecca V. (Becky) & & 578 & 84.13\% & 1 & 100.00\% & 579 & 84.16\% \\
\hline & Cast Votes: & 687 & 100.00\% & 1 & 100.00\% & 688 & 100.00\% \\
\hline & Undervotes: & 1 & & 0 & & 1 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
\begin{tabular}{l} 
Election Night Reporting \\
\\
Run Time \\
Run Date \\
\end{tabular}\(\quad 8: 58\) PM

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 2

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 98 & 15.46\% & 0 & 0.00\% & 98 & 15.38\% \\
\hline LIKE, Rebecca V. (Becky) & & 536 & 84.54\% & 3 & 100.00\% & 539 & 84.62\% \\
\hline & Cast Votes: & 634 & 100.00\% & 3 & 100.00\% & 637 & 100.00\% \\
\hline & Undervotes: & 1 & & 0 & & 1 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
\begin{tabular}{l} 
Election Night Reporting \\
\\
Run Time \\
Run Date \\
\end{tabular}\(\quad 8: 58\) PM

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 3

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 154 & 35.48\% & 1 & 20.00\% & 155 & 35.31\% \\
\hline LIKE, Rebecca V. (Becky) & & 280 & 64.52\% & 4 & 80.00\% & 284 & 64.69\% \\
\hline & Cast Votes: & 434 & 100.00\% & 5 & 100.00\% & 439 & 100.00\% \\
\hline & Undervotes: & 0 & & 0 & & 0 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
\begin{tabular}{l} 
Election Night Reporting \\
\\
Run Time \\
Run Date \\
\end{tabular}\(\quad 8: 58\) PM

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 4
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|r|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 434 & 29.23\% & 5 & 50.00\% & 439 & 29.36\% \\
\hline LIKE, Rebecca V. (Becky) & & 1,051 & 70.77\% & 5 & 50.00\% & 1,056 & 70.64\% \\
\hline & Cast Votes: & 1,485 & 100.00\% & 10 & 100.00\% & 1,495 & 100.00\% \\
\hline & Undervotes: & 2 & & 0 & & 2 & \\
\hline & Overvotes: & 2 & & 0 & & 2 & \\
\hline
\end{tabular}
Precinct Results Report
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Election Night Reporting \\
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Run Date \\
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 5

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 158 & 27.82\% & 0 & 0.00\% & 158 & 27.72\% \\
\hline LIKE, Rebecca V. (Becky) & & 410 & 72.18\% & 2 & 100.00\% & 412 & 72.28\% \\
\hline & Cast Votes: & 568 & 100.00\% & 2 & 100.00\% & 570 & 100.00\% \\
\hline & Undervotes: & 0 & & 0 & & 0 & \\
\hline & Overvotes: & 1 & & 0 & & 1 & \\
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 6
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 346 & 25.50\% & 1 & 14.29\% & 347 & 25.44\% \\
\hline LIKE, Rebecca V. (Becky) & & 1,011 & 74.50\% & 6 & 85.71\% & 1,017 & 74.56\% \\
\hline & Cast Votes: & 1,357 & 100.00\% & 7 & 100.00\% & 1,364 & 100.00\% \\
\hline & Undervotes: & 1 & & 0 & & 1 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
Election Night Reporting

Run Time
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 7
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 234 & 45.70\% & 1 & 100.00\% & 235 & 45.81\% \\
\hline LIKE, Rebecca V. (Becky) & & 278 & 54.30\% & 0 & 0.00\% & 278 & 54.19\% \\
\hline & Cast Votes: & 512 & 100.00\% & 1 & 100.00\% & 513 & 100.00\% \\
\hline & Undervotes: & 1 & & 0 & & 1 & \\
\hline & Overvotes: & 2 & & 0 & & 2 & \\
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\end{tabular}
Precinct Results Report
Election Night Reporting

Run Time
Run Date

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 8
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|r|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 364 & 34.83\% & 7 & 63.64\% & 371 & 35.13\% \\
\hline LIKE, Rebecca V. (Becky) & & 681 & 65.17\% & 4 & 36.36\% & 685 & 64.87\% \\
\hline & Cast Votes: & 1,045 & 100.00\% & 11 & 100.00\% & 1,056 & 100.00\% \\
\hline & Undervotes: & 3 & & 0 & & 3 & \\
\hline & Overvotes: & 1 & & 0 & & 1 & \\
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Precinct Results Report
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

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Page 9
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 336 & 27.14\% & 1 & 16.67\% & 337 & 27.09\% \\
\hline LIKE, Rebecca V. (Becky) & & 902 & 72.86\% & 5 & 83.33\% & 907 & 72.91\% \\
\hline & Cast Votes: & 1,238 & 100.00\% & 6 & 100.00\% & 1,244 & 100.00\% \\
\hline & Undervotes: & 7 & & 0 & & 7 & \\
\hline & Overvotes: & 3 & & 0 & & 3 & \\
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Precinct Results Report
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 10

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 37 & 15.81\% & 0 & 0.00\% & 37 & 15.81\% \\
\hline LIKE, Rebecca V. (Becky) & & 197 & 84.19\% & 0 & 0.00\% & 197 & 84.19\% \\
\hline & Cast Votes: & 234 & 100.00\% & 0 & 0.00\% & 234 & 100.00\% \\
\hline & Undervotes: & 1 & & 0 & & 1 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
Election Night Reporting

Run Time
Run Date

\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

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Page 11

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 263 & 29.19\% & 0 & 0.00\% & 263 & 29.03\% \\
\hline LIKE, Rebecca V. (Becky) & & 638 & 70.81\% & 5 & 100.00\% & 643 & 70.97\% \\
\hline & Cast Votes: & 901 & 100.00\% & 5 & 100.00\% & 906 & 100.00\% \\
\hline & Undervotes: & 2 & & 0 & & 2 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
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Run Date \\
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

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Page 12
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 340 & 25.11\% & 2 & 33.33\% & 342 & 25.15\% \\
\hline LIKE, Rebecca V. (Becky) & & 1,014 & 74.89\% & 4 & 66.67\% & 1,018 & 74.85\% \\
\hline & Cast Votes: & 1,354 & 100.00\% & 6 & 100.00\% & 1,360 & 100.00\% \\
\hline & Undervotes: & 4 & & 0 & & 4 & \\
\hline & Overvotes: & 2 & & 0 & & 2 & \\
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Precinct Results Report
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Election Night Reporting \\
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

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Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 239 & 28.25\% & 0 & 0.00\% & 239 & 28.25\% \\
\hline LIKE, Rebecca V. (Becky) & & 607 & 71.75\% & 0 & 0.00\% & 607 & 71.75\% \\
\hline & Cast Votes: & 846 & 100.00\% & 0 & 0.00\% & 846 & 100.00\% \\
\hline & Undervotes: & 2 & & 0 & & 2 & \\
\hline & Overvotes: & 1 & & 0 & & 1 & \\
\hline
\end{tabular}
Precinct Results Report
Election Night Reporting

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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 14

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 96 & 26.89\% & 0 & 0.00\% & 96 & 26.82\% \\
\hline LIKE, Rebecca V. (Becky) & & 261 & 73.11\% & 1 & 100.00\% & 262 & 73.18\% \\
\hline & Cast Votes: & 357 & 100.00\% & 1 & 100.00\% & 358 & 100.00\% \\
\hline & Undervotes: & 2 & & 0 & & 2 & \\
\hline & Overvotes: & 1 & & 0 & & 1 & \\
\hline
\end{tabular}
Precinct Results Report
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Election Night Reporting \\
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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 15

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 173 & 33.53\% & 0 & 0.00\% & 173 & 33.33\% \\
\hline LIKE, Rebecca V. (Becky) & & 343 & 66.47\% & 3 & 100.00\% & 346 & 66.67\% \\
\hline & Cast Votes: & 516 & 100.00\% & 3 & 100.00\% & 519 & 100.00\% \\
\hline & Undervotes: & 0 & & 0 & & 0 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
Precinct Results Report
Election Night Reporting

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\section*{County of Kauai}

COUNTY OF KAUAI - PROSECUTING ATTORNEY SPECIAL ELECTION

2/26/2022
Page 16

Prosecuting Attorney - Vote For Not More Than One (1)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Choice & Party & & Mail & \multicolumn{2}{|l|}{In-Person} & \multicolumn{2}{|r|}{Total} \\
\hline ISERI, Shaylene (Shay) & & 5 & 62.50\% & 0 & 0.00\% & 5 & 62.50\% \\
\hline LIKE, Rebecca V. (Becky) & & 3 & 37.50\% & 0 & 0.00\% & 3 & 37.50\% \\
\hline & Cast Votes: & 8 & 100.00\% & 0 & 0.00\% & 8 & 100.00\% \\
\hline & Undervotes: & 0 & & 0 & & 0 & \\
\hline & Overvotes: & 0 & & 0 & & 0 & \\
\hline
\end{tabular}
*** End of report ***
\begin{tabular}{ll} 
From: & \multicolumn{1}{c}{ Anthony Gairnese } \\
To: & OE.Elections \\
Subject: & [EXTERNAL] Mesa County Colorado Tabulation machine analysis \\
Date: & Friday, April 1, 2022 10:51:09 AM \\
Attachments: & Mesa County CO Proof Of Election Machine Manipulation (2).pdf
\end{tabular}

Mr. Commissioner,
See attached PDF of an analysis of tabulator machines in Mesa County, CO. Thank You,

Anthony Gairnese

\section*{Tony Gairnese}

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(408) 204-3587

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gairnese@gmail.com
5545 Haleola Street
Honolulu, Hawaii 96821



\title{
Mesa County Colorado Voting Systems
}

\section*{Report \#3}

Election Database and Data Process Analysis

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This report documents the findings of an examination of tabulated vote databases based on forensic analysis of the drive image of Mesa County, Colorado's Dominion Voting Systems (DVS) Election Management System (EMS) server. The findings in this report were prepared by the authors as consultants to the legal team representing Tina Peters, the Mesa County Clerk and Recorder, pursuant to her statutory duties as Mesa County's Chief Election Official. The findings provide evidence of unauthorized and illegal manipulation of tabulated vote data during the 2020 General Election and 2021 Grand Junction Municipal Election. Because of this evidence, which led to the vote totals for those elections being impossible to verify, the results and integrity of Mesa County's 2020 General Election and the 2021 Grand Junction Municipal Election are in question.

This analysis was performed using the forensic image of the EMS server, which was backed up before Colorado Secretary of State and DVS overwrote the hard drive with D-Suite version 5.13.

Findings and Implications:
1) There was an unauthorized creation of new election databases during early voting in the 2020 General Election on October 21, 2020, followed by the digital reloading of 20,346 ballot records into the new election databases, making the original voter intent recorded from the ballots unknown. In addition, 5,567 ballots in 58 batches did not have their digital records copied to the new database, although the votes from the ballots in those batches were recorded in the Main election database.
2) The same unauthorized creation of new election databases occurred during the 2021 Grand Junction Municipal Election on March 30, 2021, followed by the digital reloading of 2,974 ballot records, making the original voter intent recorded on those ballots unknown. In addition, 4,458 ballots in 46 batches did not have their digital records copied to the
new database, although the votes from the ballots in those batches were recorded in the Main election database.
3) The absence of secure hash algorithm (.sha) files for each digital ballot image makes the authenticity of each digital ballot image, and the ballotlevel record for those ballots, impossible to verify.
4) The true total vote count in Mesa County, Colorado cannot be accurately calculated for the 2020 General Election or the 2021 Grand Junction Municipal Election from records in the databases of the county's voting system.
5) There is no function or feature on the EMS server that could be executed inadvertently or deliberately by a local election official that would cause this combination of events to occur, especially within the time frame that these events occurred. Given the complex sequence of data manipulations and deletions necessary to produce the digital evidence described in this report, this combination of events could not have been the result of either deliberate or inadvertent actions by those officials.
6) Dominion's installation of the Trusted Build update on the EMS in May of 2021, as ordered by the Colorado Secretary of State, destroyed all data on the EMS hard drive, including the batch and ballot records that evidenced the creation of new databases and reprocessing of ballot records described in Findings 1 and 2 above. This destruction of all data by the trusted build is described in the "Mesa County, Colorado Voting Systems Forensic Examination and Analysis Report".
7) The fact that such ballot record manipulation has been shown demonstrates a critical security failure with the DVS EMS wherever it is used. The manipulation would not be identifiable to an election official using the voting systems, nor to an observer or judge overseeing the election conduct, much less to citizens with no access to the voting systems; without both cyber and database management system expertise, and
unfettered access to database records and computer log files (many of which were destroyed by the actions of the Secretary of State) from the EMS server, the manipulation would be undetectable.

\section*{INTRODUCTION}

The use of computerized election management systems is now nearly universal across counties in the United States. While the use of these systems is touted as "efficient", potentially decreasing manpower costs and time to produce election results, it also greatly reduces the transparency of the election process and exposes our elections to extraordinary vulnerability from both inadvertent and deliberate misconfiguration or misuse. Americans' right to free and fair elections is inalienable, but that right is infringed by lack of transparency, and by whatever lies behind that opaque curtain.

Without free and fair elections and the transparency to see it for themselves, without relying on the assertions of any other person or organization, Americans' consent and the legitimacy of our government, at all levels, is in doubt. If Americans' votes are to be recorded and counted by machines, every aspect of those machines' operation, configuration, and data must be recorded, immediately available at no cost or administrative burden to citizens and their independent examiners and confirmed 100\% accurate through that independent verification. The absence or shortfall of any of those three imperatives (recorded, available, and independently verified) should immediately cause the public to distrust both the purported result from those machines, and also anyone who insists that they accept those results.

Numerous Federal and State laws attempt to safeguard our voting rights and the integrity of our elections. Title 52 USC provides for much of the Federal guidance in this area, and Colorado Revised Statute (CRS) Title 1 covers most of the Colorado state guidance.
a) 52 U.S. Code § 10307 prohibits any person acting under color of law to "...willfully fail or refuse to tabulate, count, and report..." the vote of any person entitled to vote.
b) 52 U.S. Code § 10308(a) prescribes penalties for any person depriving or attempting to deprive any person of voting rights under Federal statute.
c) 52 U.S. Code § 10308(c) prescribes penalties for conspiring to violate or interfere with secured voting rights.
d) 52 U.S. Code § 20701 mandates the preservation of all election records for 22 months after an election for Federal offices. \({ }^{1,2}\)
e) 52 U.S. Code § 20702 prescribes penalties for theft, destruction, concealment, mutilation, or alteration of § 20701 election records.
f) 52 U.S. Code § 21081 requires that voting systems used in elections for Federal office meet the standards of that section, including that the voting system shall produce a record with an audit capacity for such system, and that "the error rate of the voting system in counting ballots...shall comply with the error rate standards established under section 3.2.1 of..." the Federal Election Commission 2002 Voting System Standards (VSS). \({ }^{3}\)
g) CRS §1-5-601.5 requires that voting systems and equipment in Colorado meet 2002 VSS standards, at minimum.
h) CRS §1-7-802 requires the preservation of election records for 25 months after elections.
i) CRS §1-13-111 prescribes penalties for destroying, removing, or delaying delivery of election records.

\begin{abstract}
Title 52 clarifies that the "every officer of election" is responsible for maintaining the election records.
\end{abstract}

\footnotetext{
\({ }^{1}\) U.S. Department of Justice Publication "Federal Law Constraints on Post-Election 'Audits'," July 28, 2021, states that "The materials covered by Section 301 extend beyond 'papers' to include other 'records.' Jurisdictions must therefore also retain and preserve records created in digital or electronic form."
\({ }^{2}\) The Federal Election Commission's 2002 Voting System Standards, the standards of which are mandatory minima for certification of voting systems under Colorado state statute § 1-5-601.5., specifies that a voting system which "...provides access to incomplete election returns and interactive inquiries before the completion of the official count...shall: a. ...be designed to provide external access to incomplete election returns only if that access for these purposes is authorized by the statutes and regulations of the using agency...b. Use voting system software and its security environment designed such that data accessible to interactive queries resides in an external file, or database, that is created and maintained by the elections software under the restrictions applying to any other output report, namely, that: 1) The output file or database has no provision for write-access back to the system. 2) Persons whose only authorized access is to the file or database are denied write-access, both to the file or database, and to the system," and states that the Standards are "intended to address...risks to the integrity of a voting system...," including "...Changing calculated vote totals;..." and "Preventing access to vote data, including individual votes and vote totals, to unauthorized individuals;..."
\({ }^{3} 2002\) VSS, para 3.2.1 specifies "d. For central-county systems.... Consolidation of vote selection data from multiple counting devices to generate jurisdiction-wide vote counts, including storage and reporting of the consolidated vote data....a target error rate of no more than one in \(10,000,000\) ballot positions." A ballot position is each and every choice (e.g. a "bubble" which can be marked or filled-in) on a ballot selectable by a voter to convey their voting choices.
}

Page 6 of \(\mathbf{8 8}\)

Mesa County, Colorado, uses software and hardware provided by DVS and for the 2020 General Election and the 2021 Grand Junction Municipal Election, specifically used "D-Suite 5.11-CO." The primary voting system EMS server, which contains the raw tabulated vote information used to produce official election reports, makes use of Microsoft SQL Server 2016 databases running on the Microsoft Windows Server 2016 operating system. The forensic image used for the analysis, created on May 23, 2021, has been validated as authentic (see "Report \#2, Forensic Examination and Analysis Report" by D. Gould for the methods used to validate the forensic image).

\section*{DEFINITION OF TERMS}
"Ballot": Mesa County used two-sided paper ballots in the November 2020 General Election and the 2021 Grand Junction Municipal Election. A ballot is a device used to cast votes in an election. In Colorado, ballots are pieces of paper defining races and issues, and reflecting the choices of individual voters from among the options available for each race and issue. A digital image of each paper ballot is created by the DVS D-Suite voting system during the processing of ballots, as described below, and that ballot image is stored on the designated "NAS (Network Attached Storage device)" of the D-Suite voting system.
"Adjudication": A term used to describe the process of determining voter intent from a voter's ballot marks, where ballot markings are ambiguous. According to Dominion's Democracy Suite Use Procedure Manual, adjudication is "the process of examining voted ballots to determine, and, in the judicial sense, adjudicate voter intent". In the DVS D-Suite, adjudication refers to the operation and use of a software component called "EMS Adjudication," and the process of using that software component to manually or automatically interpret voter intent from scanned ballot images, and then to record that interpretation as the record of the vote choices for the affected ballots, in both "result files" and ballot images. Depending on software configuration choices, individual ballot images/result files, entire batches of ballot images/result files, or all ballot images/result files can be subjected to automatic or manual adjudication on the basis of "exceptions" or "outstack conditions" (e.g., "overvotes", where too many choices
are marked for a race or issue; or "marginal marks" when ballot choice ovals are not adequately filled in), or by the arbitrary decision of EMS administrators.
"Manual Adjudication": Either all ballot images, or individual ballot images, or those from particular batches or tabulators, in which voter intent for any race or issue is flagged by the EMS Adjudication software module as not being determinable (or as having "exceptions"), are, in theory, sent to "Manual Adjudication" stations where officials called "Adjudicators" view the digital images of the ballots and decide the voter's intent. In this Report we sometimes use the terms "manual adjudication" and "machine adjudication" to clearly distinguish the process of human judging of voter intent from the process of the DVS EMS Adjudication software's determining of voter intent.
"Adjudication database": The DVS D-Suite version used in Mesa County during the November 2020 and April 2021 elections maintains a separate SQL Server database, called an "AdjudicableBallotStore," created by DVS software, for each election which contains records of all batches and ballots scanned into the voting system through ImageCast scanning workstations, and any batch and ballot records manually entered. The database maintains critical information about each batch and ballot, most importantly the ballot Adjudication status and the file location of the ballot image. A batch can have any of the following adjudication statuses in the adjudication system: In-Progress, Read Error, Review, Pending Submission, Submitted, or Submission Error. \({ }^{4}\) Throughout, "Adjudication database."
"Main election database": The DVS D-Suite version used in Mesa County during the November 2020 and April 2021 elections maintains a database for each election, called an "ElectionStore" by DVS, which contains information defining an election, including contest, candidate, and ballot definitions as well as aggregated vote information which is used to produce all election reports generated by County officials. Throughout, "Main database."

\footnotetext{
\({ }^{4}\) In-Progress batches have been acquired by the system (e.g. through scanning at an ICC) and have ballots being served to clients (Adjudication); Read Error batches are those which encounter errors while being loaded into the system; Review are batches with all ballot adjudication complete, including batches with no adjudication required; Pending Submission are batches submitted to tally, but which have not yet completed that transmission to the tally process; Submitted are batches which have completed the transmission to the tally process; Submission Error are batches that were submitted to the tally process, but which were unsuccessfully submitted.
Page \(\mathbf{8}\) of \(\mathbf{8 8}\)
}
"Tabulation database": The DVS D-Suite version used in Mesa County during the November 2020 and April 2021 elections maintains a database for each election, called a "TabulationStore" by DVS, which contains the timestamps and ballot counts for each batch of ballots, which duplicates that information contained in the Adjudication database. It contains other tables which are not used by Mesa County's elections. Throughout, "Tabulation database."
"Reprocessed": For the purposes of this Report, the term "reprocessed" means that one or more data records which had already been created, presumably by scanning of paper ballots through an ImageCast Central (ICC) workstation, though also technically possible through manual entry of records, within the databases associated with an election, were loaded into the system again to a different database, and that this re-loading was not performed in connection within any documented, authorized election-related operations procedure or function. A comparison with the log files of the respective ICC workstations might reveal whether the reprocessed paper ballots were, in fact, rescanned at the ICC, but many of those log files have been destroyed by the Secretary of State's "Trusted Build."

\section*{ANALYSIS}

\section*{I. Evidence of ballot record data manipulation - November 2020 General Election}

Our analysis shows manipulation, which was neither initiated nor authorized by Mesa County election clerks, of the batches and ballots processed during the first three days of ballot processing in the November 2020 General Election.

The following timeline of events, beginning October 19, 2020, when Mesa County began processing ballots in the General Election, demonstrates this manipulation of ballots.

\section*{October 19, 2020 - October 21, 2020, 2:14 PM}

On these first three days of ballot counting in Mesa County, up until 2:14 PM on October 21, 2020, 267 batches, consisting of 25,913 ballots, were physically processed (physically scanned on DVS ICC scanners with voters' choices, in the form of marks on the ballots, scanned and interpreted by software) through three tabulators, internally identified in the Main database as tabulator IDs 4, 7, and 10. Mesa County election clerks reported no unusual activity or errors encountered during the processing of these 267 batches. The Adjudication database used at this time contains records of all batches with a sequential "load order" of 1 to 267, and other tables within it record the information about each ballot, for instance the time it was entered into the database, the tabulator used, and the adjudication status. Those which were selected for Adjudication have the proper status records indicating that the normal adjudication steps occurred.

The initial 10 batches processed through tabulator 10, containing a total of 941 ballots, had timestamps indicating that they were all entered into the database within 47 seconds (total - not 47 seconds per batch, but 47 seconds for 10 batches). (See Appendix A for a list of the batches and their timestamps in the original Adjudication database.) The Canon DR-G1130, which according to purchasing documents and Colorado Secretary of State voting equipment inventories is the model of scanners used by Mesa County (see Reference C and the Colorado Secretary of State website \({ }^{5}\) ), operates at approximately 100 pages per minute (ppm), duplex, meaning that scanning both sides of each ballot would take no less than 0.01 minutes, which is 0.6 seconds, per ballot. 941 ballots at 0.6 seconds per ballot should have taken a minimum of 564 seconds, or slightly under 9 and a half minutes, a significantly longer interval than 47 seconds, which is physically impossible. Mesa County election clerks were unaware of these batch timestamps, or any issue which could explain them.

\section*{October 21, 2020-2:14 PM}

According to the data contained in the EMS SQL Server Database, new Tabulation and Adjudication databases were created on the EMS server at 12:18:50 PM October 01, 2020. These databases initially contained no data records.

\footnotetext{
\({ }^{5}\) CO SecState Voting Equipment Inventory at: https://archive.ph/RQS91
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}

Figure 1. "Before" Screenshot of Databases on the Mesa EMS Server
\begin{tabular}{l|l}
\hline & name \\
\hline 1 & 2020 Mesa County General-2020-09-05-00-10-20 \\
\hline 2 & AdjudicableBallotStore_2020_Mesa_County_General_2020-10-01_12:18:50 \\
\hline 3 & TabulationStore_2020_Mesa_County_General_2020-10-01_12:18:50
\end{tabular}

One Adjudication database and one Tabulation database were listed, with creation times before the counting in Mesa County began on October 19, 2020.

Figure 2. "After" Screenshot of Databases on Mesa EMS Server
```

    name
    12020 Mesa County General-2020-09-05-00-10-20
2 AdjudicableBallotStore_2020_Mesa_County_General_2020-10-21_14:18:51
3 TabulationStore_2020_Mesa_County_General_2020-10-21_14:18:51
4 AdjudicableBallotStore_2020_Mesa_County_General_2020-10-01_12:18:50
5 TabulationStore_2020_Mesa_County_General_2020-10-01_12:18:50

```

Two Adjudication databases ("AdjudicableBallotStore") and two Tabulation databases ("TabulationStore") are now listed, one set of which had creation times before the date and time ballot scanning and tabulation began in Mesa County on October 19, 2020 and the other set of which the EMS server data indicate were created two and a half days after ballot scanning and tabulation began.

It has been observed that a clerk giving the EMS system a command to stop and then restart adjudication in an election again creates new Adjudication and Tabulation databases. Mesa County clerks are very certain that they did not initiate any such action in either the November 2020 or the April 2021 elections. Therefore, it is likely that a procedure internal to the DVS software had to perform a stop and restart of the adjudication services in order to perform the batch and ballot manipulation which occurred later (see below).

There are only a few possibilities which would explain how the database copying process was initiated.

\section*{1. Direct action by Mesa County personnel}

The client application used by election clerks does give them the ability to stop and restart adjudication, which would create the new databases.

However, Mesa County personnel are very clear that they did nothing of the sort and explained that they would only do such a thing in an extreme emergency, as the process would have made the production of legally mandated reports very difficult.

\section*{2. Triggered remotely}
"Report \#2, Forensic Examination and Analysis Report" by D. Gould identifies numerous security vulnerabilities in the DVS EMS server. A signal, or external trigger, \({ }^{6}\) giving instructions to software inside the EMS server could have been sent to and received through any of the open communication ports, or through the port 80 Web Server port, which has been demonstrated to be open on the server and accepting commands via an application programming interface (API). \({ }^{7}\) This signal, along with other information, could have been received via a local network connection (from any device connected to the EMS server's internal network), from a remote network connection (if the EMS server's internal network has been bridged to the external internet), or via an internal cellutar modem (if one was installed in any DVS system). If the EMS Server was connected to a wireless network, it is feasible that even a cell phone outside of the

\footnotetext{
\({ }^{6}\) E.g., an "external trigger" most people are familiar with is the function whereby their smartphone's wi-fi connection is turned on in response to detecting the proximity of a saved, pre-approved wi-fi network. The external trigger satisfies the criteria of an internal, saved rule for application behavior, and the application then executes the correlated command or function. We likely don't think of "Do Not Disturb" mode on our smartphones as being similarly controlled by an external trigger, but if our smartphones are configured to "use network time," meaning the time signal transmitted by the cellular carrier network, then our smartphones' "Do Not Disturb" mode isn't turned on at the time we set, per se, but when our cellular carrier tells our phone that the specified time is reached.
\({ }^{7}\) An API is a specification for interaction which allows computer applications to communicate with, make requests to, and issue commands to other computer applications. I.e., API enables machine-machine communication, coordination, and command and control, depending on the permissions and allowable exchanges of the specific API specification.
}

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building, but still within the wireless signal radius, could have been used to trigger the events.

This option is plausible but infers a degree of external, time-sensitive control over the DVS equipment in use in Mesa County. This control might be considered undesirable by the perpetrators responsible for manipulating the election data, because it was a possibility that any unauthorized network connections, whether they be via standard ethernet, wireless network connection, or cellular modem, could have been discovered during the election period.

\section*{3. Algorithmically Triggered}

A software algorithm \({ }^{8}\) running inside the DVS computer systems in Mesa County could have made the decision to perform the new database creations and the selected record manipulation which followed based on preprogrammed criteria related to the election results at the time.

Given that this method requires the least amount of external control and monitoring, this option would seem to be the most likely. The decision to copy the Adjudication and Tabulation databases and re-process the ballot records would be made by software running inside the Dominion EMS (or inside another connected machine running Dominion software) based on unexpected voting patterns.

\section*{October 21, 2020, 2:30 PM - 2:34 PM}

During this time period, 209 out of the original 267 batches (containing a total of 20,346 ballots) were digitally - not physically - loaded into the new Adjudication and Tabulation databases. Specifically, records for batches with load order 2 through 59 were not reloaded and do not appear in the new

\footnotetext{
\({ }^{8}\) An "algorithm" is simply a set of rules for logical, sequential consideration of inputs (e.g. a contingent variable state, like "the switch is off" or "the switch is on," or the value of field/memory location " \(X\) " is " 1 " or is "Not 1 ") to produce a consistent, expected output. In this case, a simple, hypothetical algorithm might have been something like "IF ('numberofbatches'>50) AND
("ElectionProjectActive"=TRUE) AND ("EMSAdminUserLoggedIn"=FALSE) AND
(VOTETOTAL,"InternalMachineID:01">VOTETOTAL,"InternalMachineID:02") AND (SYSTIME>20201019) AND
(SYSTIME<20201103) THEN COPY:BATCHID030010:BATCHID030059 AND INSERTINTO "adjudicableballotstore," etc. Page \(\mathbf{1 3}\) of \(\mathbf{8 8}\)
}

Adjudication database in any form. The timestamps of the 209 batch records (load order 1 and load orders 60 through 267) show an impossibly short processing time (approximately 4 seconds each) for these batches to have been physically processed into the newly created Adjudication and Tabulation databases. As described above, because of the minimum scanning time of one minute per batch for the Canon DR-G1130 scanner-based tabulator, it is not possible for these 20,346 ballots to have been physically rescanned (i.e., the paper ballots were not reloaded into the scanning hardware), but rather the digital batch and ballot records were directly added to the new Adjudication database. This indicates that the batches could only have been loaded into the newly created Adjudication and Tabulation databases by using software code or a script running within the EMS server. See Appendix B for a list of all batches and their timestamps in the new Adjudication database. See Appendix C for a list of all commands executed prior to and after the database copy, which provides a precise timeline of the effects of those commands on the database copy.

It is important to note that this unauthorized procedure only copied the records of selected batches of ballots, indicating that this was an intentional act.

Below is a screenshot of the beginning of the list of batches recorded in the original Adjudication database, sorted by the order that they were loaded:

Figure 3. List of Batches Recorded in the Original Adjudication Database, Sorted by Load Order
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & Tabulatorld & Batchld & Category & CvrBatchld & Name & LoadOrder & CreationTime & ModificationTime \\
\hline 1 & 10 & 4001 & 0 & 1 & Tabulator 10 - Batch 4001 & 1 & 2020-10-19 12:07:40.850 & 2020-10-19 12:09:58.200 \\
\hline 2 & 10 & 4002 & 0 & 2 & Tabulator 10 - Batch 4002 & 2 & 2020-10-19 12:07:44.443 & 2020-10-20 10:43:25.547 \\
\hline 3 & 10 & 4003 & 0 & 3 & Tabulator 10 - Batch 4003 & 3 & 2020-10-19 12:07:48.257 & 2020-10-20 10:43:26.437 \\
\hline 4 & 10 & 4004 & 0 & 4 & Tabulator 10 - Batch 4004 & 4 & 2020-10-19 12:07:50.960 & 2020-10-20 10:43:27.423 \\
\hline 5 & 10 & 4005 & 0 & 5 & Tabulator 10 - Batch 4005 & 5 & 2020-10-19 12:07:53.960 & 2020-10-20 10:43:28.500 \\
\hline 6 & 10 & 4006 & 0 & 6 & Tabulator 10 - Batch 4006 & 6 & 2020-10-19 12:08:12.123 & 2020-10-20 10:43:29.907 \\
\hline 7 & 10 & 4007 & 0 & 7 & Tabulator 10 - Batch 4007 & 7 & 2020-10-19 12:08:16.137 & 2020-10-20 10:43:30.953 \\
\hline 8 & 10 & 4008 & 0 & 8 & Tabulator 10 - Batch 4008 & 8 & 2020-10-19 12:08:20.107 & 2020-10-20 10:43:32.390 \\
\hline 9 & 10 & 4009 & 0 & 9 & Tabulator 10 - Batch 4009 & 9 & 2020-10-19 12:08:24.170 & 2020-10-20 10:43:33.673 \\
\hline 10 & 10 & 4010 & 0 & 10 & Tabulator 10 - Batch 4010 & 10 & 2020-10-19 12:08:28.233 & 2020-10-20 10:43:34.703 \\
\hline 11 & 4 & 2001 & 0 & 11 & Tabulator 4 - Batch 2001 & 11 & 2020-10-19 12:23:35.457 & 2020-10-20 10:42:50.047 \\
\hline 12 & 4 & 2002 & 0 & 12 & Tabulator 4 - Batch 2002 & 12 & 2020-10-19 12:30:25.763 & 2020-10-20 10:42:51.343 \\
\hline 13 & 4 & 2003 & 0 & 13 & Tabulator 4 - Batch 2003 & 13 & 2020-10-19 12:32:30.137 & 2020-10-20 10:42:52.470 \\
\hline 14 & 4 & 2004 & 0 & 14 & Tabulator 4 - Batch 2004 & 14 & 2020-10-19 12:36:19.937 & 2020-10-20 10:42:52.970 \\
\hline 15 & 4 & 2005 & 0 & 15 & Tabulator 4 - Batch 2005 & 15 & 2020-10-19 12:43:25.387 & 2020-10-20 10:42:53.797 \\
\hline 16 & 4 & 2006 & 0 & 16 & Tabulator 4 - Batch 2006 & 16 & 2020-10-19 13:50:28.623 & 2020-10-20 10:42:48.593 \\
\hline 17 & 4 & 2007 & 0 & 17 & Tabulator 4 - Batch 2007 & 17 & 2020-10-19 13:54:18.990 & 2020-10-20 10:42:54.533 \\
\hline 18 & 4 & 2008 & 0 & 18 & Tabulator 4 - Batch 2008 & 18 & 2020-10-19 13:58:23.777 & 2020-10-20 10:42:56.080 \\
\hline 19 & 4 & 2009 & 0 & 19 & Tabulator 4 - Batch 2009 & 19 & 2020-10-19 14:03:28.847 & 2020-10-20 10:42:57.673 \\
\hline 20 & 4 & 2010 & 0 & 20 & Tabulator 4 - Batch 2010 & 20 & 2020-10-19 14:06:33.427 & 2020-10-20 10:42:58.877 \\
\hline 21 & 4 & 2011 & 0 & 21 & Tabulator 4 - Batch 2011 & 21 & 2020-10-19 14:10:23.157 & 2020-10-20 10:42:59.563 \\
\hline 22 & 4 & 2012 & 0 & 22 & Tabulator 4 - Batch 2012 & 22 & 2020-10-19 14:14:28.253 & 2020-10-20 10:43:00.360 \\
\hline 23 & 4 & 2013 & 0 & 23 & Tabulator 4 - Batch 2013 & 23 & 2020-10-19 14:18:33.053 & 2020-10-20 10:43:00.970 \\
\hline 24 & 4 & 2014 & 0 & 24 & Tabulator 4 - Batch 2014 & 24 & 2020-10-19 14:22:22.753 & 2020-10-20 10:43:01.533 \\
\hline
\end{tabular}

Note that there is a sequential order with all load order numbers represented.

\author{
Below is a screenshot of the same table in the newly created Adjudication database:
}

Figure 4. List of Batches in Newly Created Adjudication database
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & Tabulatorld & Batchld & Category & CvrBatchld & Name & LoadOrder & CreationTime & ModificationTime \\
\hline 1 & 10 & 4001 & 0 & 1 & Tabulator 10 - Batch 4001 & 1 & 2020-10-21 14:20:07.257 & 2020-10-22 10:33:50.593 \\
\hline 2 & 10 & 4025 & 0 & 60 & Tabulator 10 - Batch 4025 & 60 & 2020-10-21 14:20:26.273 & 2020-10-22 10:33:51.907 \\
\hline 3 & 4 & 2036 & 0 & 61 & Tabulator 4 - Batch 2036 & 61 & 2020-10-21 14:20:30.477 & 2020-10-22 10:31:56.047 \\
\hline 4 & 10 & 4026 & 0 & 62 & Tabulator 10 - Batch 4026 & 62 & 2020-10-21 14:20:34.430 & 2020-10-22 10:33:53.330 \\
\hline 5 & 4 & 2037 & 0 & 63 & Tabulator 4 - Batch 2037 & 63 & 2020-10-21 14:20:39.043 & 2020-10-22 10:31:56.780 \\
\hline 6 & 10 & 4027 & 0 & 64 & Tabulator 10 - Batch 4027 & 64 & 2020-10-21 14:20:43.107 & 2020-10-22 10:33:54.423 \\
\hline 7 & 10 & 4028 & 0 & 65 & Tabulator 10 - Batch 4028 & 65 & 2020-10-21 14:20:47.370 & 2020-10-22 10:33:55.703 \\
\hline 8 & 4 & 2038 & 0 & 66 & Tabulator 4 - Batch 2038 & 66 & 2020-10-21 14:20:51.527 & 2020-10-22 10:31:57.297 \\
\hline 9 & 4 & 2039 & 0 & 67 & Tabulator 4 - Batch 2039 & 67 & 2020-10-21 14:20:55.887 & 2020-10-22 10:31:58.187 \\
\hline 10 & 4 & 2040 & 0 & 68 & Tabulator 4 - Batch 2040 & 68 & 2020-10-21 14:21:00.060 & 2020-10-22 10:31:58.860 \\
\hline 11 & 4 & 2041 & 0 & 69 & Tabulator 4 - Batch 2041 & 69 & 2020-10-21 14:21:04.060 & 2020-10-22 10:31:59.907 \\
\hline 12 & 10 & 4029 & 0 & 70 & Tabulator 10 - Batch 4029 & 70 & 2020-10-21 14:21:08.260 & 2020-10-22 10:33:56.843 \\
\hline 13 & 4 & 2042 & 0 & 71 & Tabulator 4 - Batch 2042 & 71 & 2020-10-21 14:21:12.747 & 2020-10-22 10:32:00.593 \\
\hline 14 & 10 & 4030 & 0 & 72 & Tabulator 10 - Batch 4030 & 72 & 2020-10-21 14:21:16.810 & 2020-10-22 10:33:57.640 \\
\hline 15 & 4 & 2043 & 0 & 73 & Tabulator 4 - Batch 2043 & 73 & 2020-10-21 14:21:20.747 & 2020-10-22 10:32:01.217 \\
\hline
\end{tabular}

\section*{While the record of the batch with load order 1 was copied, there is a gap of 58 batches before the second line, which is a record of the batch with load order}

\section*{Page 15 of \(\mathbf{8 8}\)}
60. Batch load order numbers 2 through 59 were not copied, and never existed in the new Adjudication database.

The data records describing the batches and the ballots contained within them in the new Adjudication database, specifically the time stamps shown in Appendix B as well as statements by Mesa County election officials, indicate that the paper ballots and batches were not physically re-scanned. Therefore, it appears the process of scanning these ballots was simulated, and the records of the batches and the ballots contained within them were electronically transferred from the original Adjudication database into the new Adjudication database.

For example, below is the sequence of events detailing the processing of batch 4024 (whose ballots and records were not copied to the new Adjudication database) and batch 4025 (whose ballots and records were copied to the new Adjudication database). This will illustrate the contrast between copied and uncopied batch and ballot records.

Batch 4024 is recorded in the original Adjudication database as being created at 4:09:34 PM on October 19. It contained 100 ballots and was scanned by tabulator 10. Ten of these ballots from batch 4024 were subsequently manually adjudicated. The ballot numbers in the batch which were manually adjudicated were \(4,8,13,14,30,48,63,87,88\), and 90 . Then, the votes contained on all 100 ballots were recorded in the appropriate tables in the Main database (see Reference A for a list of these tables). When the new Adjudication database was created, no records from Batch 4024 were copied to it, and thus there was no reprocessing or physical rescanning of the ballots. Adjudication history for the 10 ballots which were manually adjudicated was no longer available to the Mesa County clerks, and the original voter intent of these ballots is unknown.

In contrast, Batch 4025 is recorded in the original Adjudication database as being processed at 4:12:23 PM on October 19. This batch contained 99 ballots and was also scanned by tabulator 10 . Fourteen of these ballots were
subsequently manually adjudicated. The ballot numbers in the batch which were manually adjudicated were \(3,10,13,21,22,23,34,40,49,59,66,79\), 97, and 99. Then, the votes contained on all 99 ballots were recorded in the appropriate tables in the Main database.

After the new Adjudication database was created, a record of Batch 4025 appeared in its tables at 2:20:26 PM on October 21. It is still listed as having 99 ballots and from tabulator 10. In the new Adjudication database, however, only 6 of the batch 4025 ballots ( 8 less than the first time these batches were entered into the original Adjudication database), were again manually adjudicated. The individual ballot numbers were 3, 21, 22, 40, 59, and 66. At this point, the vote records from at least those 6 ballots and possibly all 99 would have been recorded in the appropriate tables in the Main database, replacing the votes which were already in that database from those ballots. Adjudication history for the 14 ballots which were manually adjudicated was no longer available to the Mesa County clerks, and the original voter intent of these ballots is unknown.

The selected batches in the new Adjudication database (batch 1 and batches 60 through 267) appeared in the same serial order that they were loaded into the original Adjudication database, with the same batch numbers, ballot counts, and load order numbers (compare Appendix A and Appendix B).

\section*{October 21, 2020, shortly after 2:34 PM}

At this point, as reported by Mesa County election officials, some Mesa County adjudication officials began noticing that they were being asked to look at ballots that they had already adjudicated. This is consistent with these ballots and batches being reprocessed in the new Adjudication database. When the new Adjudication database was created, and the selected records described above were copied and reprocessed, there were outstanding ballots from the last set of batches scanned before the event. As some of these ballots were sent to manual adjudication again after the batches were reprocessed, this caused a situation where the same ballot was in the manual adjudication process twice.

Page \(\mathbf{1 7}\) of \(\mathbf{8 8}\)

This caused confusion among the election staff who were assigned the duty of manual adjudication, since when a ballot was adjudicated the second time the master count of adjudicated ballots, which is displayed by the Dominion system and is used by the election clerks to track the overall adjudication process, did not change. This caused the Adjudication officials to assume that there had been an error and, in some cases, to attempt additional manual adjudications of the same ballot with the same unsatisfactory result.

According to several Mesa County election officials, DVS support was contacted at approximately 4 PM on the \(21^{\text {st }}\) of October, and while the support representative claimed to not have a solution for the issue Mesa County was seeing, that issue ceased soon afterwards. This indicates that DVS may have performed or caused to be performed an operation unknown to Mesa County election officials (and outside of their control) to address this problem which manifested after the unauthorized database manipulation.

Of the 209 batches which were processed twice (batches 1 and 60 through 267), the ballot counts match between the old and new Adjudication database. However, DVS software marked 2,166 ballots for manual adjudication the first time they were processed in the original Adjudication database, but when reprocessed in the new Adjudication database the software marked only 965 ballots for manual adjudication.

The same ballots run through the same hardware and evaluated by the same software should have had the same resulting ballots marked for adjudication, but they did not. This leads to the logical critical conclusion that not all the ballots in the batches processed after the database copy were the same and had the same votes as the ballots in the same batches processed before the database copy. There is no record remaining of the votes originally recorded from the ballots, and therefore there can be no certainty that the votes now recorded are the same. In essence, the chain of custody has been broken for these votes in the database.

The 58 batches which were not duplicated in the new Adjudication database must also be seen as suspect, as their chain of custody has also been broken via the fact that no record of them or their adjudication exists in the Adjudication database in use at the end of the election. A clerk wishing to view the adjudication status of a ballot in any of the 58 batches would be unable to do so, as no information about those batches exists in the new Adjudication database.

Thus, all 25,931 ballot records processed before 2:14 PM on October 21, 2020, comprising over \(25 \%\) of the County's total over the entire election, cannot be verified and should not have been counted.

\section*{II. Evidence of Ballot Manipulation - April 2021 Grand Junction Municipal Election}

Our analysis shows a nearly identical manipulation of the batches and ballots processed during the first six days of ballot processing in the April 2021 Municipal Election in Grand Junction, Colorado.

The timeline of events beginning March 24, 2021, when Mesa County Election clerks began processing ballots in the 2021 Grand Junction Municipal Election, follows.

\section*{March 24, 2021 - March 30, 2021, 2:43 PM}

On these first seven days of counting, up until 2:43 PM on March 30, 2021, 88 batches of ballots, consisting of 8,540 ballots, were processed. County Election clerks report no unusual activity or errors encountered at any time during the election counting process. The Adjudication database used at this time contains
records of all batches with a sequential load order of 1 to 88, and other tables within it record each ballot. Those which were selected for Manual Adjudication (339 in total) have the proper status records indicating the normal adjudication steps occurred.

\section*{March 30, 2021, 2:58 PM}

According to the data contained in the EMS server, new Adjudication and Tabulation databases were created and registered within the DVS system as the associated databases for the election. As in the circumstance previously described in the early voting period for the November 2020 election, these two databases initially contained no data.

See Appendix D for a list of all commands executed prior to and after the database creation in the April 2021 Municipal Election, which provides a precise timeline of the effects of creating the new databases and copying the batch and ballot records.
It is important to note that this unauthorized procedure copied the records of only selected batches of ballots, indicating that this was an intentional act.

Below is a screenshot of the beginning of the list of batches recorded in the original Adjudication database, sorted by the order that they were loaded:

Figure 5. List of Batches Recorded in the Original Adjudication Database, Sorted by Load Order
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Tabulatorld & Batchld & Category & CvrBatchld & Name & LoadOrder & CreationTime & ModificationTime \\
\hline 30 & 3000 & 0 & 2 & Tabulator 30 - Batch 3000 & 1 & 2021-03-24 14:52:58.350 & 2021-03-29 14:07:57.213 \\
\hline 30 & 3001 & 0 & 3 & Tabulator 30 - Batch 3001 & 2 & 2021-03-24 15:09:05.203 & 2021-03-29 14:07:57.557 \\
\hline 30 & 3002 & 0 & 4 & Tabulator 30 - Batch 3002 & 3 & 2021-03-24 15:10:53.607 & 2021-03-29 14:07:57.917 \\
\hline 30 & 3003 & 0 & 5 & Tabulator 30 - Batch 3003 & 4 & 2021-03-24 15:13:57.637 & 2021-03-29 14:07:58.307 \\
\hline 30 & 3004 & 0 & 6 & Tabulator 30 - Batch 3004 & 5 & 2021-03-24 15:17:01.500 & 2021-03-29 14:07:58.587 \\
\hline 30 & 3005 & 0 & 7 & Tabulator 30 - Batch 3005 & 6 & 2021-03-24 15:21:03.903 & 2021-03-29 14:07:58.837 \\
\hline 30 & 3006 & 0 & 8 & Tabulator 30 - Batch 3006 & 7 & 2021-03-24 15:24:05.780 & 2021-03-29 14:07:56.837 \\
\hline 30 & 3007 & 0 & 9 & Tabulator 30 - Batch 3007 & 8 & 2021-03-24 15:28:55.220 & 2021-03-29 14:07:59.273 \\
\hline 30 & 3008 & 0 & 10 & Tabulator 30 - Batch 3008 & 9 & 2021-03-24 15:33:59.600 & 2021-03-29 14:07:59.650 \\
\hline 30 & 3009 & 0 & 11 & Tabulator 30 - Batch 3009 & 10 & 2021-03-24 15:37:03.750 & 2021-03-29 14:08:00.010 \\
\hline 30 & 3010 & 0 & 12 & Tabulator 30 - Batch 3010 & 11 & 2021-03-29 11:06:24.310 & 2021-03-29 14:08:00.323 \\
\hline 30 & 3011 & 0 & 13 & Tabulator 30 - Batch 3011 & 12 & 2021-03-29 11:38:04.150 & 2021-03-29 14:08:00.667 \\
\hline 30 & 3012 & 0 & 14 & Tabulator 30 - Batch 3012 & 13 & 2021-03-29 11:42:52.697 & 2021-03-29 14:08:01.040 \\
\hline 30 & 3013 & 0 & 15 & Tabulator 30 - Batch 3013 & 14 & 2021-03-29 11:45:56.630 & 2021-03-29 14:08:01.383 \\
\hline 30 & 3014 & 0 & 16 & Tabulator 30 - Batch 3014 & 15 & 2021-03-29 11:48:00.360 & 2021-03-29 14:08:01.713 \\
\hline 30 & 3015 & 0 & 17 & Tabulator 30 - Batch 3015 & 16 & 2021-03-29 11:51:03.987 & 2021-03-29 14:08:02.040 \\
\hline 30 & 3016 & 0 & 18 & Tabulator 30 - Batch 3016 & 17 & 2021-03-29 13:05:52.907 & 2021-03-29 14:08:02.400 \\
\hline 30 & 3017 & 0 & 19 & Tabulator 30 - Batch 3017 & 18 & 2021-03-29 13:08:56.587 & 2021-03-29 14:08:02.743 \\
\hline 30 & 3018 & 0 & 20 & Tabulator 30 - Batch 3018 & 19 & 2021-03-29 13:12:00.483 & 2021-03-29 14:08:03.073 \\
\hline 30 & 3019 & 0 & 21 & Tabulator 30 - Batch 3019 & 20 & 2021-03-29 13:14:04.207 & 2021-03-29 14:08:03.400 \\
\hline 30 & 3020 & 0 & 22 & Tabulator 30 - Batch 3020 & 21 & 2021-03-29 13:19:53.690 & 2021-03-29 14:08:03.727 \\
\hline 30 & 3021 & 0 & 23 & Tabulator 30 - Batch 3021 & 22 & 2021-03-29 13:22:57.557 & 2021-03-29 14:08:04.103 \\
\hline 30 & 3022 & 0 & 24 & Tabulator 30 - Batch 3022 & 23 & 2021-03-29 13:26:01.097 & 2021-03-29 14:08:04.430 \\
\hline 30 & 3023 & 0 & 25 & Tabulator 30 - Batch 3023 & 24 & 2021-03-29 13:28:04.527 & 2021-03-29 14:08:04.790 \\
\hline 30 & 3024 & 0 & 26 & Tabulator 30 - Batch 3024 & 25 & 2021-03-29 13:30:53.410 & 2021-03-29 14:08:05.133 \\
\hline 30 & 3025 & 0 & 27 & Tabulator 30 - Batch 3025 & 26 & 2021-03-29 13:32:57.050 & 2021-03-29 14:08:05.540 \\
\hline 30 & 3026 & 0 & 28 & Tabulator 30 - Batch 3026 & 27 & 2021-03-29 13:37:01.250 & 2021-03-29 14:08:05.900 \\
\hline 30 & 3027 & 0 & 29 & Tabulator 30 - Batch 3027 & 28 & 2021-03-29 13:40:05.090 & 2021-03-29 14:08:06.227 \\
\hline 30 & 3028 & 0 & 30 & Tabulator 30 - Batch 3028 & 29 & 2021-03-29 13:41:53.687 & 2021-03-29 14:08:06.573 \\
\hline 30 & 3029 & 0 & 31 & Tabulator 30 - Batch 3029 & 30 & 2021-03-29 13:44:57.640 & 2021-03-29 14:08:06.900 \\
\hline
\end{tabular}

Below is a screenshot of the same table in the newly created Adjudication
database, sorted by creation time:

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Tabulatorld & Batchld & Category & CvrBatchld & Name & LoadOrder & CreationTime & ModificationTime \\
\hline 30 & 3047 & 0 & 49 & Tabulator 30 - Batch 3047 & 48 & 2021-03-30 15:00:14.560 & 2021-03-30 15:25:33.373 \\
\hline 30 & 3048 & 0 & 50 & Tabulator 30 - Batch 3048 & 49 & 2021-03-30 15:00:17.950 & 2021-03-30 15:25:34.090 \\
\hline 30 & 3050 & 0 & 52 & Tabulator 30 - Batch 3050 & 51 & 2021-03-30 15:00:36.577 & 2021-03-30 15:25:33.733 \\
\hline 30 & 3054 & 0 & 56 & Tabulator 30 - Batch 3054 & 55 & 2021-03-30 15:00:50.780 & 2021-03-30 15:03:21.940 \\
\hline 20 & 2000 & 0 & 59 & Tabulator 20 - Batch 2000 & 58 & 2021-03-30 15:01:01.250 & 2021-03-30 15:03:19.520 \\
\hline 20 & 2002 & 0 & 61 & Tabulator 20 - Batch 2002 & 60 & 2021-03-30 15:01:07.983 & 2021-03-30 15:03:19.847 \\
\hline 20 & 2003 & 0 & 62 & Tabulator 20 - Batch 2003 & 61 & 2021-03-30 15:01:11.467 & 2021-03-30 15:03:20.050 \\
\hline 20 & 2004 & 0 & 63 & Tabulator 20 - Batch 2004 & 62 & 2021-03-30 15:01:15.123 & 2021-03-30 15:03:19.127 \\
\hline 20 & 2005 & 0 & 64 & Tabulator 20 - Batch 2005 & 63 & 2021-03-30 15:01:18.687 & 2021-03-30 15:03:20.237 \\
\hline 20 & 2006 & 0 & 65 & Tabulator 20 - Batch 2006 & 64 & 2021-03-30 15:01:22.203 & 2021-03-30 15:03:20.410 \\
\hline 20 & 2008 & 0 & 67 & Tabulator 20 - Batch 2008 & 66 & 2021-03-30 15:01:29.203 & 2021-03-30 15:03:20.627 \\
\hline 20 & 2009 & 0 & 68 & Tabulator 20 - Batch 2009 & 67 & 2021-03-30 15:01:32.953 & 2021-03-30 15:03:20.847 \\
\hline 20 & 2010 & 0 & 69 & Tabulator 20 - Batch 2010 & 68 & 2021-03-30 15:01:36.467 & 2021-03-30 15:03:21.033 \\
\hline 20 & 2011 & 0 & 70 & Tabulator 20 - Batch 2011 & 69 & 2021-03-30 15:01:40.437 & 2021-03-30 15:03:21.237 \\
\hline 20 & 2012 & 0 & 71 & Tabulator 20 - Batch 2012 & 70 & 2021-03-30 15:01:44.513 & 2021-03-30 15:03:21.410 \\
\hline 20 & 2013 & 0 & 72 & Tabulator 20 - Batch 2013 & 71 & 2021-03-30 15:01:48.063 & 2021-03-30 15:03:21.567 \\
\hline 20 & 2015 & 0 & 74 & Tabulator 20 - Batch 2015 & 73 & 2021-03-30 15:01:55.170 & 2021-03-30 15:03:21.723 \\
\hline 20 & 2016 & 0 & 75 & Tabulator 20 - Batch 2016 & 74 & 2021-03-30 15:01:58.827 & 2021-03-30 15:03:39.753 \\
\hline 20 & 2018 & 0 & 77 & Tabulator 20 - Batch 2018 & 76 & 2021-03-30 15:02:05.920 & 2021-03-30 15:03:47.913 \\
\hline 20 & 2019 & 0 & 78 & Tabulator 20 - Batch 2019 & 77 & 2021-03-30 15:02:09.407 & 2021-03-30 15:03:48.210 \\
\hline 20 & 2020 & 0 & 79 & Tabulator 20 - Batch 2020 & 78 & 2021-03-30 15:02:13.140 & 2021-03-30 15:03:47.613 \\
\hline 20 & 2021 & 0 & 80 & Tabulator 20 - Batch 2021 & 79 & 2021-03-30 15:02:16.017 & 2021-03-30 15:03:51.317 \\
\hline 20 & 2023 & 0 & 82 & Tabulator 20 - Batch 2023 & 81 & 2021-03-30 15:02:22.517 & 2021-03-30 15:04:13.667 \\
\hline 20 & 2024 & 0 & 83 & Tabulator 20 - Batch 2024 & 82 & 2021-03-30 15:02:26.050 & 2021-03-30 15:04:18.870 \\
\hline 20 & 2025 & 0 & 84 & Tabulator 20 - Batch 2025 & 83 & 2021-03-30 15:02:29.580 & 2021-03-30 15:04:18.527 \\
\hline 20 & 2026 & 0 & 85 & Tabulator 20 - Batch 2026 & 84 & 2021-03-30 15:02:33.597 & 2021-03-30 15:04:20.793 \\
\hline 10 & 1001 & 0 & 87 & Tabulator 10 - Batch 1001 & 86 & 2021-03-30 15:02:40.610 & 2021-03-30 15:04:48.777 \\
\hline 10 & 1002 & 0 & 88 & Tabulator 10 - Batch 1002 & 87 & 2021-03-30 15:02:44.050 & 2021-03-30 15:04:49.120 \\
\hline 10 & 1003 & 0 & 89 & Tabulator 10 - Batch 1003 & 88 & 2021-03-30 15:02:47.423 & 2021-03-30 15:04:48.417 \\
\hline 10 & 1000 & 0 & 96 & Tabulator 10 - Batch 1000 & 114 & 2021-03-30 16:04:55.357 & 2021-03-30 16:17:49.813 \\
\hline
\end{tabular}

\section*{March 30, 2021, 3:00 PM - 3:03 PM}

During this three-minute time period, records of 42 batches and the 4,082 ballots contained within them, previously processed into the original Adjudication database, were copied into the new Adjudication database. According to the time stamps, the records of the batches appeared in the new Adjudication database in intervals of a fraction of a second between them, much too quickly for the ballots contained in the batches to have been physically scanned (per the maximum scanning speeds discussed above). Mesa County election clerks state that they did not take any action to reprocess or re-scan any batches on that day, nor did they at any time stop and restart the Adjudication software process. Only 39 ballots in these 42 batches went through manual adjudication after being copied to the new database, and database records indicate that the adjudication process was completed successfully on those 39 ballots.

Unlike what was found in the November 2020 General Election records described above, the records for these 42 batches which were copied to the new database do not appear in the new Adjudication database in exactly the same order as they had originally been loaded; 12 batch records are out of order when the records in the original Adjudication database and the new Adjudication database are compared.

No further anomalies are shown in the Adjudication database records during the Election counting process, nor did Mesa County election clerks encounter any unexpected issues.

Of the 42 batches which were processed twice (batches 45 through 49 and 51 through 88), the ballot counts (total number of ballots) match between the old and new Adjudication databases. However, DVS software sent 339 ballots to manual adjudication the first time they were processed in the original Adjudication database, but when reprocessed in the new Adjudication database the software sent just 39 ballots to manual adjudication.

The same ballots run through the same hardware and evaluated by the same software should have had the same resulting ballots marked for adjudication, but they did not. This leads to the logical critical conclusion that not all the ballots in the batches processed after the database copy were the same and had the same votes as the ballots in the same batches processed before the database copy. There is no record remaining of the votes originally recorded from the ballots, and therefore there can be no certainty that the votes now recorded are the same. In essence, the chain of custody has been broken for these votes in the database.

The 46 batches which were not duplicated in the new Adjudication database must also be seen as suspect, as their chain of custody has also been broken via the fact that no record of them or their adjudication exists in the Adjudication database in use at the end of the election. A clerk wishing to view the adjudication status of a ballot in any of these 46 batches would be unable to do

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}
so, as no information about these batches exists in the new Adjudication database.

Thus, all 8,540 ballots processed before 2:58 PM on March 30, 2021, comprising over \(49 \%\) of the total votes in the entire 2021 Grand Junction Municipal Election, cannot be verified and should not have been counted. These 8,540 ballots represent more than twice the winning margin in any of the four City Council races that occurred in this election.

\section*{III. Comparison of the November 2020 General Election Findings and the April 2021 Grand Junction Municipal Election Findings}

Comparing the above findings for the two elections shows numerous similarities and also critical differences.

\section*{Similarities:}
- In both elections, a software process running within the DVS system performed an unauthorized creation of new Adjudication and Tabulation databases.
- In both elections, database records of selected batches and of the ballots within those batches were copied into the new databases and were reprocessed.
- In both elections, selected batches were not copied to the new Adjudication and Tabulation databases, making adjudication information invisible to the Mesa County election clerks.

\section*{Differences:}
- In the November 2020 General Election, records of a sequential series of batches and the ballots contained within them were copied from the original Adjudication and Tabulation databases to the new Adjudication and Tabulation databases, and the batches were copied in the same order as in the original databases. In the April 2021 Grand Junction Municipal Election, records of a non-sequential series of batches and the ballots contained within

\footnotetext{
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}
them were copied, and they appear in the new Adjudication database in a different order than in the original database.
- In the April 2021 Grand Junction Municipal Election, the EMS User Logs (which show events and commands which were executed) show reference to a batch 89. As there were 88 batches in the original Adjudication database, this would have logically been the next batch received from the scanners. However, no record of a batch with the load order '89' exists in either Adjudication database, and there are missing load orders between 88 and 114 as well.

The similarities lead to the conclusion that the same method was used to alter the database records in both elections.

The differences lead to the conclusion that there is a degree of control in the method used to alter the database records which used parameters unique to each election.

\section*{IV. Summary Impact of Above Findings}

This manipulation of batch and ballot records described above is significant for three reasons.

First, when the ballots were reprocessed as described above, including readjudication, it is logical to conclude that whatever votes had been initially recorded could well have been replaced by the reprocessed votes in the Main election database. The differences in the Manual Adjudication numbers certainly supports this possible conclusion. Thus, this procedure could change votes in the Main database without leaving any evidence to indicate changes had been made, or any way to determine the nature of the changes or what the original vote data was.

Second, the adjudication status (including the timestamps of adjudication events, the results of the adjudication, and the user who performed the
adjudication) of any ballots in the batches not copied to the new Adjudication database would not be viewable through the DVS client software applications.

Third, an examination of the EMS server which was less rigorous than ours would not likely have caught the fact that the Adjudication and Tabulation databases used at the end of the elections were not the same, nor did they contain the same records, as the databases used at the beginning of the elections. This leads to the possible conclusion that some batches and ballots were excluded from the new databases so as to inhibit the possibility of their being audited or examined.

\section*{V. Lack of Referential Integrity in DVS Database Tables}

Most modern database designs include a concept called "referential integrity." For example, if you have one table of data that has information about "people," and another table that has information about "colleges," you might have a field in an individual record in the "people's" table that can contain an id, or pointer, to the college he or she attended. Referential integrity, in this case, would mean that if "John Smith's" record had a pointer to the "University of Pittsburgh", the system should give an error if you try to remove the item "University of Pittsburgh" from the "colleges" table. It would not allow you to do this action because a field in "John Smith's" record refers to the college "University of Pittsburgh" and deleting that entry in the "colleges" table makes "John Smith's" record invalid.

However, some of the DVS Election Management System data structures have no such referential integrity built into them. Therefore, batch records in one database could be deleted without any consequence to records that point to that batch in another database, and without any detection of the error. This lack of referential integrity means that vote or ballot information could easily be added or removed from one part of the database without any warnings or errors occurring in other parts of the various databases.

It is, for example, possible to change the fields with vote counts in one table of the Main election database without having that change affect any other tables
or cause a referential integrity violation. This is a fundamental and critical breach of sound database design, particularly considering the importance of chain-ofcustody and audit trail evidence for the provenance of ballot record and tabulated vote information in a voting system.

Please see Reference D for an example of how the batch and ballot data moves through the various databases and tables in the Dominion EMS.

\section*{VI. Digital Ballot Images are Obfuscated and Unverifiable}

An attempt was made to investigate the conditions of the digital ballot images to corroborate the findings above. This avenue of research is greatly hindered because the ballot IDs or sequence numbers in the batches are not relatable to their images, not even within the DVS databases themselves. This is an additional example of a lack of referential integrity within the system.

Additionally, the digital ballot images do not have the accompanying ".sha" files which are meant to prove the authenticity of the ballots. Therefore, any findings, including the integrity and authenticity of ballot images, related to the digital ballot images cannot be absolutely validated because there is no proof that the images are the ones created at the time the ballots were first processed.

Finally, code running within the EMS server that has the system access rights to create and alter SQL Server database records could be used to alter the stored digital ballot images themselves. The EMS Adjudication module software already has the capability of altering scanned images and legitimately does so for each manually adjudicated ballot.

\section*{DISCUSSION}

The events described above show a significant manipulation of a large number of batch, ballot, and vote records in the DVS EMS Database in Mesa County, and there are only a few possible explanations for the manipulation.

\section*{1. Human Error}

Extensive questioning of Mesa County election clerks has ruled out human error as the reason for the unauthorized creation of election databases on October 21, 2020, followed by reprocessing of 20,346 ballots. These personnel have a strong recollection of the events of October 21, 2020, and because of the timelines established both by their recollection and corresponding database time stamps, it is evident that any and all unusual actions they might have taken on that day were in response to the new database's creation having already occurred, and batch records being copied into the new database, which affected their ability to complete adjudication on some in-process ballots. Similarly, Mesa County election officials have a strong recollection of the events of March 30, 2021. They state that they did not take any steps that would have given rise to the unauthorized creation of new election databases during the 2021 Grand Junction Municipal Election on that day, followed by the reprocessing of 2,974 ballots,.

\section*{2. Software Failure}

While an error or failure in the DVS EMS server is a possibility, it strains credulity that any error could cause the numerous specific events which are documented above. In particular, the non-sequential reloading of the batches during the 2021 Grand Junction Municipal Election, when compared with the sequential reloading in the November 2020 General Election, makes it inherently impossible for the same error to have caused both chains of events.

However, as noted in the section above labelled "Algorithmically Triggered", the DVS EMS server (or another connected machine running Dominion software) could have been preprogrammed to perform the unauthorized new database creations and the selected record manipulation which followed based on preprogrammed criteria related to the election results at the time. This would be the result of advance planning in the deliberate
design of the software to alter outcomes when unexpected voting patterns were detected.

\section*{3. Network Breach or Pre-Installation of Manipulating Software or Algorithm}

A device external to the DVS D-Suite network could have connected to the DVS D-Suite and to the EMS server, using the open SQL Server port 1433, open Web Services port 80, or through any other open port directly into the DVS Software. As outlined in "Report \#2, Forensic Examination and Analysis Report" by D. Gould, there are numerous flaws in the security of the server, many of which could provide an outside entity with direct access to the SQL Server Database or the Application itself. The DVS D-Suite makes use of "SOAP" messaging protocol API calls through its web server, so malicious procedures could be triggered by simple port 80 access.

All Windows log files which would show these network accesses are configured, as specified by DVS manuals published by the Colorado Secretary of State as mandatory technical procedures for County election officials, to keep only a small amount of log entries before they are overwritten. Therefore, no record of external access to the DVS D-Suite is available in Windows logs.

Regardless of whether the voting system was connected to an external network or device, even momentarily, or whether a pre-installed software or algorithm was triggered by an external command or complex set of variable conditions, the execution of manipulating software or algorithm could plausibly be responsible for the results described in our findings.
1. Unauthorized creation of new Tabulation and Adjudication databases occurred during the counting of the November 2020 General Election, along with the selective copying of batch and ballot records from the original databases to the new ones. This manipulation places all 25,913 initial ballots counted into a state where they cannot be validated - some because it is possible that their vote information was changed, and unverifiable that it was not, and the rest because their "chain of evidence" has been intentionally obfuscated. Even if the count and content of ballot images match the numbers and counts reported by the database, there is no method to validate those ballot images due to missing ".sha" files, which are intended to provide such validation.
2. Unauthorized creation of new Tabulation and Adjudication databases occurred during the 2021 Grand Junction Municipal Election, along with the selective copying of batch and ballot records from the original databases to the new ones. This places all 8,540 initial ballots counted into a state where they cannot be validated - some because it is possible that their vote information was changed and unverifiable that it was not, and some because their "chain of evidence" has been intentionally obfuscated.
3. As we have found evidence that thousands of ballot records have had their validity placed in serious question, none of the election results from the 2020 General or 2021 Grand Junction Municipal Elections in Mesa County can be considered trustworthy. If Mesa County has preserved the respective paper ballots, as they are required to do by law, and those ballots were forensically authenticated with confirmed chain-of-custody from eligible electors to sworn county election officials (not possible retrospectively, nor under current election procedures in Colorado), then a hand-count of paper ballots might support a verifiable, trustworthy conclusion about the countylevel results of these two elections.
4. Because the unauthorized methods used to alter batch and ballot-level information described above are available within the DVS EMS server, this
system cannot be considered reliable for use in any election. An investigation, involving all physical and cyber evidence, including a source code audit of the exact, verifiable version of all DVS-supplied executable and library files, is necessary to identify the exact software methods used to produce the manipulation and to determine other potential unauthorized actions that the code is able to cause or enable.
5. The Dominion Voting System's database structure stores actual vote information in only one table, in aggregated form, so alterations made to vote counts or candidates in just that table, create a single point of attack or failure for the entire vote reporting process (see Reference D).

\section*{APPENDIX A - BATCHES - ORIGINAL ADJUDICATION (WITH TIME BETWEEN BATCHES) - NOVEMBER 2020 ELECTION}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline TabulatorId & BatchId & LoadOrder & Creation Date & Creation Time & Difference from Prior & Ballots \\
\hline 10 & 4001 & 1 & 10/19/2020 & 12:07:41 PM & & 100 \\
\hline 10 & 4002 & 2 & 10/19/2020 & 12:07:44 PM & 0:00:04 & 42 \\
\hline 10 & 4003 & 3 & 10/19/2020 & 12:07:48 PM & 0:00:04 & 100 \\
\hline 10 & 4004 & 4 & 10/19/2020 & 12:07:51 PM & 0:00:03 & 100 \\
\hline 10 & 4005 & 5 & 10/19/2020 & 12:07:54 PM & 0:00:03 & 100 \\
\hline 10 & 4006 & 6 & 10/19/2020 & 12:08:12 PM & 0:00:18 & 100 \\
\hline 10 & 4007 & 7 & 10/19/2020 & 12:08:16 PM & 0:00:04 & 100 \\
\hline 10 & 4008 & 8 & 10/19/2020 & 12:08:20 PM & 0:00:04 & 99 \\
\hline 10 & 4009 & 9 & 10/19/2020 & 12:08:24 PM & 0:00:04 & 100 \\
\hline 10 & 4010 & 10 & 10/19/2020 & 12:08:28 PM & 0:00:04 & 100 \\
\hline 4 & 2001 & 11 & 10/19/2020 & 12:23:35 PM & 0:15:07 & 98 \\
\hline 4 & 2002 & 12 & 10/19/2020 & 12:30:26 PM & 0:06:50 & 100 \\
\hline 4 & 2003 & 13 & 10/19/2020 & 12:32:30 PM & 0:02:04 & 100 \\
\hline 4 & 2004 & 14 & 10/19/2020 & 12:36:20 PM & 0:03:50 & 100 \\
\hline 4 & 2005 & 15 & 10/19/2020 & 12:43:25 PM & 0:07:05 & 100 \\
\hline 4 & 2006 & 16 & 10/19/2020 & 1:50:29 PM & 1:07:03 & 100 \\
\hline 4 & 2007 & 17 & 10/19/2020 & 1:54:19 PM & 0:03:50 & 100 \\
\hline 4 & 2008 & 18 & 10/19/2020 & 1:58:24 PM & 0:04:05 & 100 \\
\hline 4 & 2009 & 19 & 10/19/2020 & 2:03:29 PM & 0:05:05 & 100 \\
\hline 4 & 2010 & 20 & 10/19/2020 & 2:06:33 PM & 0:03:05 & 100 \\
\hline 4 & 2011 & 21 & 10/19/2020 & 2:10:23 PM & 0:03:50 & 99 \\
\hline 4 & 2012 & 22 & 10/19/2020 & 2:14:28 PM & 0:04:05 & 100 \\
\hline 4 & 2013 & 23 & 10/19/2020 & 2:18:33 PM & 0:04:05 & 100 \\
\hline 4 & 2014 & 24 & 10/19/2020 & 2:22:23 PM & 0:03:50 & 100 \\
\hline 4 & 2015 & 25 & 10/19/2020 & 2:26:27 PM & 0:04:05 & 100 \\
\hline 4 & 2016 & 26 & 10/19/2020 & 2:30:32 PM & 0:04:05 & 100 \\
\hline 4 & 2017 & 27 & 10/19/2020 & 2:34:23 PM & 0:03:51 & 100 \\
\hline 4 & 2018 & 28 & 10/19/2020 & 2:36:27 PM & 0:02:04 & 33 \\
\hline 4 & 2019 & 29 & 10/19/2020 & 2:40:30 PM & 0:04:03 & 100 \\
\hline 4 & 2020 & 30 & 10/19/2020 & 2:44:20 PM & 0:03:51 & 100 \\
\hline 4 & 2021 & 31 & 10/19/2020 & 2:48:25 PM & 0:04:05 & 99 \\
\hline 4 & 2022 & 32 & 10/19/2020 & 2:51:29 PM & 0:03:04 & 100 \\
\hline 4 & 2023 & 33 & 10/19/2020 & 2:57:21 PM & 0:05:52 & 99 \\
\hline 4 & 2024 & 34 & 10/19/2020 & 2:59:26 PM & 0:02:04 & 100 \\
\hline 10 & 4011 & 35 & 10/19/2020 & 3:05:31 PM & 0:06:05 & 100 \\
\hline 4 & 2025 & 36 & 10/19/2020 & 3:06:20 PM & 0:00:49 & 100 \\
\hline 10 & 4012 & 37 & 10/19/2020 & 3:09:24 PM & 0:03:05 & 100 \\
\hline 4 & 2026 & 38 & 10/19/2020 & 3:10:28 PM & 0:01:04 & 99 \\
\hline 10 & 4013 & 39 & 10/19/2020 & 3:12:33 PM & 0:02:04 & 100 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|}
\hline 4 & 2027 & 40 & 10/19/2020 & 3:15:22 PM & 0:02:49 & 100 \\
\hline 10 & 4014 & 41 & 10/19/2020 & 3:16:26 PM & 0:01:04 & 100 \\
\hline 4 & 2028 & 42 & 10/19/2020 & 3:17:33 PM & 0:01:07 & 100 \\
\hline 4 & 2029 & 43 & 10/19/2020 & 3:19:22 PM & 0:01:49 & 25 \\
\hline 4 & 2030 & 44 & 10/19/2020 & 3:22:24 PM & 0:03:02 & 100 \\
\hline 10 & 4015 & 45 & 10/19/2020 & 3:24:29 PM & 0:02:04 & 99 \\
\hline 4 & 2031 & 46 & 10/19/2020 & 3:29:34 PM & 0:05:05 & 100 \\
\hline 10 & 4016 & 47 & 10/19/2020 & 3:30:23 PM & 0:00:49 & 100 \\
\hline 4 & 2032 & 48 & 10/19/2020 & 3:34:28 PM & 0:04:05 & 99 \\
\hline 10 & 4017 & 49 & 10/19/2020 & 3:34:32 PM & 0:00:04 & 100 \\
\hline 10 & 4018 & 50 & 10/19/2020 & 3:40:22 PM & 0:05:50 & 100 \\
\hline 10 & 4019 & 51 & 10/19/2020 & 3:44:26 PM & 0:04:05 & 100 \\
\hline 10 & 4020 & 52 & 10/19/2020 & 3:48:31 PM & 0:04:05 & 99 \\
\hline 4 & 2033 & 53 & 10/19/2020 & 4:00:24 PM & 0:11:53 & 100 \\
\hline 10 & 4021 & 54 & 10/19/2020 & 4:00:43 PM & 0:00:19 & 99 \\
\hline 4 & 2034 & 55 & 10/19/2020 & 4:03:33 PM & 0:02:49 & 100 \\
\hline 10 & 4022 & 56 & 10/19/2020 & 4:03:37 PM & 0:00:04 & 100 \\
\hline 10 & 4023 & 57 & 10/19/2020 & 4:05:26 PM & 0:01:49 & 78 \\
\hline 4 & 2035 & 58 & 10/19/2020 & 4:09:30 PM & 0:04:04 & 100 \\
\hline 10 & 4024 & 59 & 10/19/2020 & 4:09:34 PM & 0:00:04 & 100 \\
\hline 10 & 4025 & 60 & 10/19/2020 & 4:12:24 PM & 0:02:50 & 99 \\
\hline 4 & 2036 & 61 & 10/19/2020 & 4:13:28 PM & 0:01:04 & 100 \\
\hline 10 & 4026 & 62 & 10/19/2020 & 4:15:33 PM & 0:02:04 & 100 \\
\hline 4 & 2037 & 63 & 10/19/2020 & 4:16:22 PM & 0:00:49 & 99 \\
\hline 10 & 4027 & 64 & 10/19/2020 & 4:19:26 PM & 0:03:04 & 100 \\
\hline 10 & 4028 & 65 & 10/19/2020 & 4:22:31 PM & 0:03:05 & 100 \\
\hline 4 & 2038 & 66 & 10/19/2020 & 4:24:20 PM & 0:01:50 & 100 \\
\hline 4 & 2039 & 67 & 10/19/2020 & 4:28:25 PM & 0:04:05 & 100 \\
\hline 4 & 2040 & 68 & 10/19/2020 & 4:32:30 PM & 0:04:05 & 100 \\
\hline 4 & 2041 & 69 & 10/19/2020 & 4:35:22 PM & 0:02:52 & 100 \\
\hline 10 & 4029 & 70 & 10/19/2020 & 4:37:26 PM & 0:02:04 & 100 \\
\hline 4 & 2042 & 71 & 10/19/2020 & 4:41:31 PM & 0:04:05 & 99 \\
\hline 10 & 4030 & 72 & 10/19/2020 & 4:41:35 PM & 0:00:04 & 99 \\
\hline 4 & 2043 & 73 & 10/19/2020 & 4:46:25 PM & 0:04:50 & 100 \\
\hline 10 & 4031 & 74 & 10/19/2020 & 4:49:29 PM & 0:03:05 & 97 \\
\hline 10 & 4032 & 75 & 10/19/2020 & 4:53:34 PM & 0:04:05 & 99 \\
\hline 10 & 4033 & 76 & 10/19/2020 & 4:55:23 PM & 0:01:49 & 100 \\
\hline 4 & 2044 & 77 & 10/19/2020 & 4:57:27 PM & 0:02:04 & 100 \\
\hline 10 & 4034 & 78 & 10/19/2020 & 4:58:32 PM & 0:01:04 & 100 \\
\hline 4 & 2045 & 79 & 10/19/2020 & 5:00:22 PM & 0:01:51 & 99 \\
\hline 10 & 4035 & 80 & 10/19/2020 & 5:03:27 PM & 0:03:05 & 100 \\
\hline 10 & 4036 & 81 & 10/19/2020 & 5:06:31 PM & 0:03:05 & 100 \\
\hline 4 & 2046 & 82 & 10/19/2020 & 5:16:22 PM & 0:09:51 & 99 \\
\hline 4 & 2047 & 83 & 10/19/2020 & 5:18:28 PM & 0:02:06 & 100 \\
\hline 10 & 4037 & 84 & 10/19/2020 & 5:18:32 PM & 0:00:04 & 100 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|}
\hline 10 & 4049 & 130 & 10/20/2020 & 12:30:35 PM & 0:05:05 & 100 \\
\hline 4 & 2082 & 131 & 10/20/2020 & 1:08:32 PM & 0:37:57 & 100 \\
\hline 10 & 4050 & 132 & 10/20/2020 & 1:11:37 PM & 0:03:05 & 100 \\
\hline 4 & 2083 & 133 & 10/20/2020 & 1:14:29 PM & 0:02:52 & 100 \\
\hline 10 & 4051 & 134 & 10/20/2020 & 1:14:48 PM & 0:00:19 & 100 \\
\hline 4 & 2084 & 135 & 10/20/2020 & 1:16:37 PM & 0:01:49 & 100 \\
\hline 10 & 4052 & 136 & 10/20/2020 & 1:18:26 PM & 0:01:49 & 100 \\
\hline 4 & 2085 & 137 & 10/20/2020 & 1:20:30 PM & 0:02:04 & 100 \\
\hline 10 & 4053 & 138 & 10/20/2020 & 1:21:35 PM & 0:01:04 & 100 \\
\hline 4 & 2086 & 139 & 10/20/2020 & 1:22:39 PM & 0:01:04 & 100 \\
\hline 10 & 4054 & 140 & 10/20/2020 & 1:27:29 PM & 0:04:50 & 100 \\
\hline 10 & 4055 & 141 & 10/20/2020 & 1:31:34 PM & 0:04:05 & 100 \\
\hline 4 & 2087 & 142 & 10/20/2020 & 1:33:38 PM & 0:02:04 & 98 \\
\hline 4 & 2088 & 143 & 10/20/2020 & 1:37:28 PM & 0:03:50 & 100 \\
\hline 10 & 4056 & 144 & 10/20/2020 & 1:47:34 PM & 0:10:06 & 97 \\
\hline 4 & 2089 & 145 & 10/20/2020 & 1:53:39 PM & 0:06:05 & 100 \\
\hline 4 & 2090 & 146 & 10/20/2020 & 1:58:30 PM & 0:04:51 & 99 \\
\hline 10 & 4057 & 147 & 10/20/2020 & 2:02:35 PM & 0:04:05 & 96 \\
\hline 4 & 2091 & 148 & 10/20/2020 & 2:04:39 PM & 0:02:04 & 100 \\
\hline 4 & 2092 & 149 & 10/20/2020 & 2:07:29 PM & 0:02:49 & 100 \\
\hline 10 & 4058 & 150 & 10/20/2020 & 2:07:47 PM & 0:00:18 & 97 \\
\hline 4 & 2093 & 151 & 10/20/2020 & 2:10:37 PM & 0:02:49 & 100 \\
\hline 4 & 2094 & 152 & 10/20/2020 & 2:14:28 PM & 0:03:52 & 100 \\
\hline 4 & 2095 & 153 & 10/20/2020 & 2:19:33 PM & 0:05:05 & 97 \\
\hline 4 & 2096 & 154 & 10/20/2020 & 2:23:38 PM & 0:04:05 & 99 \\
\hline 7 & 3001 & 155 & 10/20/2020 & 2:26:28 PM & 0:02:50 & 100 \\
\hline 7 & 3002 & 156 & 10/20/2020 & 2:29:32 PM & 0:03:05 & 100 \\
\hline 4 & 2097 & 157 & 10/20/2020 & 2:31:37 PM & 0:02:04 & 100 \\
\hline 7 & 3003 & 158 & 10/20/2020 & 2:32:26 PM & 0:00:49 & 100 \\
\hline 7 & 3004 & 159 & 10/20/2020 & 2:36:31 PM & 0:04:05 & 98 \\
\hline 4 & 2098 & 160 & 10/20/2020 & 2:38:36 PM & 0:02:05 & 100 \\
\hline 7 & 3005 & 161 & 10/20/2020 & 2:39:40 PM & 0:01:04 & 98 \\
\hline 4 & 2099 & 162 & 10/20/2020 & 2:42:29 PM & 0:02:49 & 99 \\
\hline 7 & 3006 & 163 & 10/20/2020 & 2:43:33 PM & 0:01:04 & 100 \\
\hline 4 & 2100 & 164 & 10/20/2020 & 2:46:38 PM & 0:03:05 & 100 \\
\hline 7 & 3007 & 165 & 10/20/2020 & 2:47:27 PM & 0:00:49 & 100 \\
\hline 4 & 2101 & 166 & 10/20/2020 & 2:49:32 PM & 0:02:05 & 100 \\
\hline 7 & 3008 & 167 & 10/20/2020 & 2:51:36 PM & 0:02:04 & 100 \\
\hline 4 & 2102 & 168 & 10/20/2020 & 2:57:29 PM & 0:05:53 & 97 \\
\hline 7 & 3009 & 169 & 10/20/2020 & 2:57:47 PM & 0:00:18 & 95 \\
\hline 4 & 2103 & 170 & 10/20/2020 & 3:00:37 PM & 0:02:49 & 99 \\
\hline 7 & 3010 & 171 & 10/20/2020 & 3:01:41 PM & 0:01:04 & 99 \\
\hline 4 & 2104 & 172 & 10/20/2020 & 3:04:33 PM & 0:02:53 & 99 \\
\hline 7 & 3011 & 173 & 10/20/2020 & 3:04:37 PM & 0:00:04 & 98 \\
\hline 4 & 2105 & 174 & 10/20/2020 & 3:07:28 PM & 0:02:51 & 100 \\
\hline
\end{tabular}

Page \(\mathbf{3 5}\) of \(\mathbf{8 8}\)


Page \(\mathbf{3 6}\) of \(\mathbf{8 8}\)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline 10 & 4061 & 220 & 10/21/2020 & 10:28:34 AM & 0:02:50 & 100 \\
\hline 10 & 4062 & 221 & 10/21/2020 & 10:32:39 AM & 0:04:05 & 98 \\
\hline 10 & 4063 & 222 & 10/21/2020 & 10:34:43 AM & 0:02:04 & 100 \\
\hline 10 & 4064 & 223 & 10/21/2020 & 10:37:35 AM & 0:02:51 & 100 \\
\hline 10 & 4065 & 224 & 10/21/2020 & 10:40:39 AM & 0:03:05 & 100 \\
\hline 10 & 4066 & 225 & 10/21/2020 & 10:43:44 AM & 0:03:05 & 100 \\
\hline 10 & 4067 & 226 & 10/21/2020 & 10:47:34 AM & 0:03:51 & 99 \\
\hline 10 & 4068 & 227 & 10/21/2020 & 10:51:39 AM & 0:04:05 & 100 \\
\hline 10 & 4069 & 228 & 10/21/2020 & 10:56:44 AM & 0:05:05 & 100 \\
\hline 10 & 4070 & 229 & 10/21/2020 & 10:59:33 AM & 0:02:49 & 100 \\
\hline 10 & 4071 & 230 & 10/21/2020 & 11:02:38 AM & 0:03:05 & 99 \\
\hline 10 & 4072 & 231 & 10/21/2020 & 11:05:42 AM & 0:03:05 & 100 \\
\hline 10 & 4073 & 232 & 10/21/2020 & 11:21:37 AM & 0:15:54 & 100 \\
\hline 10 & 4074 & 233 & 10/21/2020 & 11:27:42 AM & 0:06:05 & 100 \\
\hline 10 & 4075 & 234 & 10/21/2020 & 11:35:47 AM & 0:08:06 & 97 \\
\hline 10 & 4076 & 235 & 10/21/2020 & 11:38:37 AM & 0:02:49 & 100 \\
\hline 10 & 4077 & 236 & 10/21/2020 & 11:41:41 AM & 0:03:05 & 100 \\
\hline 10 & 4078 & 237 & 10/21/2020 & 11:46:46 AM & 0:05:05 & 100 \\
\hline 10 & 4079 & 238 & 10/21/2020 & 11:49:36 AM & 0:02:50 & 100 \\
\hline 10 & 4080 & 239 & 10/21/2020 & 11:53:41 AM & 0:04:05 & 100 \\
\hline 10 & 4081 & 240 & 10/21/2020 & 12:00:46 PM & 0:07:05 & 101 \\
\hline 10 & 4082 & 241 & 10/21/2020 & 12:02:36 PM & 0:01:49 & 100 \\
\hline 10 & 4083 & 242 & 10/21/2020 & 12:05:40 PM & 0:03:05 & 100 \\
\hline 10 & 4084 & 243 & 10/21/2020 & 12:08:45 PM & 0:03:05 & 100 \\
\hline 10 & 4085 & 244 & 10/21/2020 & 12:12:35 PM & 0:03:50 & 100 \\
\hline 10 & 4086 & 245 & 10/21/2020 & 12:15:40 PM & 0:03:05 & 98 \\
\hline 10 & 4087 & 246 & 10/21/2020 & 12:50:37 PM & 0:34:57 & 98 \\
\hline 10 & 4088 & 247 & 10/21/2020 & 12:53:41 PM & 0:03:04 & 95 \\
\hline 10 & 4089 & 248 & 10/21/2020 & 12:55:46 PM & 0:02:04 & 97 \\
\hline 10 & 4090 & 249 & 10/21/2020 & 12:58:35 PM & 0:02:50 & 98 \\
\hline 10 & 4091 & 250 & 10/21/2020 & 1:03:42 PM & 0:05:06 & 95 \\
\hline 10 & 4092 & 251 & 10/21/2020 & 1:08:46 PM & 0:05:05 & 98 \\
\hline 10 & 4093 & 252 & 10/21/2020 & 1:10:37 PM & 0:01:50 & 98 \\
\hline 10 & 4094 & 253 & 10/21/2020 & 1:13:41 PM & 0:03:04 & 95 \\
\hline 10 & 4095 & 254 & 10/21/2020 & 1:16:45 PM & 0:03:04 & 97 \\
\hline 10 & 4096 & 255 & 10/21/2020 & 1:19:35 PM & 0:02:50 & 96 \\
\hline 10 & 4097 & 256 & 10/21/2020 & 1:23:41 PM & 0:04:05 & 95 \\
\hline 10 & 4098 & 257 & 10/21/2020 & 1:28:46 PM & 0:05:05 & 100 \\
\hline 10 & 4099 & 258 & 10/21/2020 & 1:29:34 PM & 0:00:49 & 63 \\
\hline 10 & 4100 & 259 & 10/21/2020 & 1:34:38 PM & 0:05:04 & 100 \\
\hline 7 & 3029 & 260 & 10/21/2020 & 1:50:46 PM & 0:16:07 & 100 \\
\hline 7 & 3030 & 261 & 10/21/2020 & 1:53:37 PM & 0:02:51 & 100 \\
\hline 7 & 3031 & 262 & 10/21/2020 & 1:57:42 PM & 0:04:05 & 100 \\
\hline 7 & 3032 & 263 & 10/21/2020 & 2:00:50 PM & 0:03:09 & 100 \\
\hline 7 & 3033 & 264 & 10/21/2020 & 2:05:40 PM & 0:04:50 & 100 \\
\hline
\end{tabular}

Page \(\mathbf{3 7}\) of \(\mathbf{8 8}\)
\begin{tabular}{|llllllr|}
\hline 7 & 3034 & 265 & \(10 / 21 / 2020\) & \(2: 08: 46 \mathrm{PM}\) & \(0: 03: 05\) & 100 \\
7 & 3035 & 266 & \(10 / 21 / 2020\) & \(2: 11: 35 \mathrm{PM}\) & \(0: 02: 50\) & 100 \\
7 & 3036 & 267 & \(10 / 21 / 2020\) & \(2: 14: 40 \mathrm{PM}\) & \(0: 03: 05\) & 99 \\
\hline
\end{tabular}

\section*{APPENDIX B - BATCHES - NEW ADJUDICATION DATABASE (WITH TIME BETWEEN BATCHES) - NOVEMBER 2020 ELECTION}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline TabulatorId & BatchId & CvrBatchId & LoadOrder & Creation Date & Creation Time & \begin{tabular}{l}
Difference \\
from \\
Prior
\end{tabular} & Ballots \\
\hline 10 & 4001 & 1 & 1 & 10/21/2020 & 2:20:07 PM & & 100 \\
\hline 10 & 4025 & 60 & 60 & 10/21/2020 & 2:20:26 PM & 0:00:19 & 99 \\
\hline 4 & 2036 & 61 & 61 & 10/21/2020 & 2:20:30 PM & 0:00:04 & 100 \\
\hline 10 & 4026 & 62 & 62 & 10/21/2020 & 2:20:34 PM & 0:00:04 & 100 \\
\hline 4 & 2037 & 63 & 63 & 10/21/2020 & 2:20:39 PM & 0:00:05 & 99 \\
\hline 10 & 4027 & 64 & 64 & 10/21/2020 & 2:20:43 PM & 0:00:04 & 100 \\
\hline 10 & 4028 & 65 & 65 & 10/21/2020 & 2:20:47 PM & 0:00:04 & 100 \\
\hline 4 & 2038 & 66 & 66 & 10/21/2020 & 2:20:52 PM & 0:00:04 & 100 \\
\hline 4 & 2039 & 67 & 67 & 10/21/2020 & 2:20:56 PM & 0:00:04 & 100 \\
\hline 4 & 2040 & 68 & 68 & 10/21/2020 & 2:21:00 PM & 0:00:04 & 100 \\
\hline 4 & 2041 & 69 & 69 & 10/21/2020 & 2:21:04 PM & 0:00:04 & 100 \\
\hline 10 & 4029 & 70 & 70 & 10/21/2020 & 2:21:08 PM & 0:00:04 & 100 \\
\hline 4 & 2042 & 71 & 71 & 10/21/2020 & 2:21:13 PM & 0:00:04 & 99 \\
\hline 10 & 4030 & 72 & 72 & 10/21/2020 & 2:21:17 PM & 0:00:04 & 99 \\
\hline 4 & 2043 & 73 & 73 & 10/21/2020 & 2:21:21 PM & 0:00:04 & 100 \\
\hline 10 & 4031 & 74 & 74 & 10/21/2020 & 2:21:25 PM & 0:00:04 & 97 \\
\hline 10 & 4032 & 75 & 75 & 10/21/2020 & 2:21:29 PM & 0:00:05 & 99 \\
\hline 10 & 4033 & 76 & 76 & 10/21/2020 & 2:21:34 PM & 0:00:04 & 100 \\
\hline 4 & 2044 & 77 & 77 & 10/21/2020 & 2:21:40 PM & 0:00:06 & 100 \\
\hline 10 & 4034 & 78 & 78 & 10/21/2020 & 2:21:44 PM & 0:00:04 & 100 \\
\hline 4 & 2045 & 79 & 79 & 10/21/2020 & 2:21:48 PM & 0:00:04 & 99 \\
\hline 10 & 4035 & 80 & 80 & 10/21/2020 & 2:21:53 PM & 0:00:05 & 100 \\
\hline 10 & 4036 & 81 & 81 & 10/21/2020 & 2:21:57 PM & 0:00:04 & 100 \\
\hline 4 & 2046 & 82 & 82 & 10/21/2020 & 2:22:01 PM & 0:00:04 & 99 \\
\hline 4 & 2047 & 83 & 83 & 10/21/2020 & 2:22:05 PM & 0:00:04 & 100 \\
\hline 10 & 4037 & 84 & 84 & 10/21/2020 & 2:22:09 PM & 0:00:04 & 100 \\
\hline 4 & 2048 & 85 & 85 & 10/21/2020 & 2:22:13 PM & 0:00:04 & 99 \\
\hline 4 & 2049 & 86 & 86 & 10/21/2020 & 2:22:17 PM & 0:00:04 & 100 \\
\hline 4 & 2050 & 87 & 87 & 10/21/2020 & 2:22:21 PM & 0:00:04 & 100 \\
\hline 4 & 2051 & 88 & 88 & 10/21/2020 & 2:22:25 PM & 0:00:04 & 99 \\
\hline 4 & 2052 & 89 & 89 & 10/21/2020 & 2:22:30 PM & 0:00:04 & 100 \\
\hline 4 & 2053 & 90 & 90 & 10/21/2020 & 2:22:34 PM & 0:00:04 & 100 \\
\hline 4 & 2054 & 91 & 91 & 10/21/2020 & 2:22:38 PM & 0:00:04 & 100 \\
\hline 4 & 2055 & 92 & 92 & 10/21/2020 & 2:22:42 PM & 0:00:04 & 100 \\
\hline 4 & 2056 & 93 & 93 & 10/21/2020 & 2:22:46 PM & 0:00:04 & 100 \\
\hline 4 & 2057 & 94 & 94 & 10/21/2020 & 2:22:50 PM & 0:00:04 & 100 \\
\hline 4 & 2058 & 95 & 95 & 10/21/2020 & 2:22:54 PM & 0:00:04 & 99 \\
\hline 4 & 2059 & 96 & 96 & 10/21/2020 & 2:22:58 PM & 0:00:04 & 100 \\
\hline 4 & 2060 & 97 & 97 & 10/21/2020 & 2:23:02 PM & 0:00:04 & 100 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 4 & 2061 & 98 & 98 & 10/21/2020 & 2:23:06 PM & 0:00:04 & 100 \\
\hline 4 & 2062 & 99 & 99 & 10/21/2020 & 2:23:11 PM & 0:00:04 & 98 \\
\hline 4 & 2063 & 100 & 100 & 10/21/2020 & 2:23:15 PM & 0:00:04 & 100 \\
\hline 4 & 2064 & 101 & 101 & 10/21/2020 & 2:23:19 PM & 0:00:04 & 100 \\
\hline 4 & 2065 & 102 & 102 & 10/21/2020 & 2:23:23 PM & 0:00:04 & 100 \\
\hline 4 & 2066 & 103 & 103 & 10/21/2020 & 2:23:28 PM & 0:00:05 & 100 \\
\hline 4 & 2067 & 104 & 104 & 10/21/2020 & 2:23:34 PM & 0:00:06 & 100 \\
\hline 4 & 2068 & 105 & 105 & 10/21/2020 & 2:23:38 PM & 0:00:04 & 100 \\
\hline 4 & 2069 & 106 & 106 & 10/21/2020 & 2:23:42 PM & 0:00:04 & 99 \\
\hline 4 & 2070 & 107 & 107 & 10/21/2020 & 2:23:46 PM & 0:00:04 & 94 \\
\hline 4 & 2071 & 108 & 108 & 10/21/2020 & 2:23:50 PM & 0:00:04 & 100 \\
\hline 4 & 2072 & 109 & 109 & 10/21/2020 & 2:23:54 PM & 0:00:04 & 100 \\
\hline 4 & 2073 & 110 & 110 & 10/21/2020 & 2:23:58 PM & 0:00:04 & 100 \\
\hline 10 & 4038 & 111 & 111 & 10/21/2020 & 2:24:02 PM & 0:00:04 & 99 \\
\hline 10 & 4039 & 112 & 112 & 10/21/2020 & 2:24:06 PM & 0:00:04 & 100 \\
\hline 10 & 4040 & 113 & 113 & 10/21/2020 & 2:24:10 PM & 0:00:04 & 99 \\
\hline 4 & 2074 & 114 & 114 & 10/21/2020 & 2:24:14 PM & 0:00:04 & 99 \\
\hline 10 & 4041 & 115 & 115 & 10/21/2020 & 2:24:18 PM & 0:00:04 & 100 \\
\hline 4 & 2075 & 116 & 116 & 10/21/2020 & 2:24:22 PM & 0:00:04 & 99 \\
\hline 10 & 4042 & 117 & 117 & 10/21/2020 & 2:24:26 PM & 0:00:04 & 100 \\
\hline 10 & 4043 & 118 & 118 & 10/21/2020 & 2:24:31 PM & 0:00:05 & 100 \\
\hline 10 & 4044 & 119 & 119 & 10/21/2020 & 2:24:35 PM & 0:00:04 & 100 \\
\hline 4 & 2076 & 120 & 120 & 10/21/2020 & 2:24:39 PM & 0:00:04 & 100 \\
\hline 4 & 2077 & 121 & 121 & 10/21/2020 & 2:24:43 PM & 0:00:04 & 100 \\
\hline 10 & 4045 & 122 & 122 & 10/21/2020 & 2:24:48 PM & 0:00:04 & 100 \\
\hline 4 & 2078 & 123 & 123 & 10/21/2020 & 2:24:52 PM & 0:00:04 & 99 \\
\hline 10 & 4046 & 124 & 124 & 10/21/2020 & 2:24:56 PM & 0:00:05 & 100 \\
\hline 4 & 2079 & 125 & 125 & 10/21/2020 & 2:25:00 PM & 0:00:04 & 99 \\
\hline 10 & 4047 & 126 & 126 & 10/21/2020 & 2:25:05 PM & 0:00:04 & 99 \\
\hline 4 & 2080 & 127 & 127 & 10/21/2020 & 2:25:09 PM & 0:00:04 & 99 \\
\hline 10 & 4048 & 128 & 128 & 10/21/2020 & 2:25:13 PM & 0:00:04 & 100 \\
\hline 4 & 2081 & 129 & 129 & 10/21/2020 & 2:25:17 PM & 0:00:04 & 100 \\
\hline 10 & 4049 & 130 & 130 & 10/21/2020 & 2:25:22 PM & 0:00:05 & 100 \\
\hline 4 & 2082 & 131 & 131 & 10/21/2020 & 2:25:26 PM & 0:00:04 & 100 \\
\hline 10 & 4050 & 132 & 132 & 10/21/2020 & 2:25:30 PM & 0:00:04 & 100 \\
\hline 4 & 2083 & 133 & 133 & 10/21/2020 & 2:25:35 PM & 0:00:04 & 100 \\
\hline 10 & 4051 & 134 & 134 & 10/21/2020 & 2:25:39 PM & 0:00:04 & 100 \\
\hline 4 & 2084 & 135 & 135 & 10/21/2020 & 2:25:44 PM & 0:00:05 & 100 \\
\hline 10 & 4052 & 136 & 136 & 10/21/2020 & 2:25:49 PM & 0:00:05 & 100 \\
\hline 4 & 2085 & 137 & 137 & 10/21/2020 & 2:25:53 PM & 0:00:04 & 100 \\
\hline 10 & 4053 & 138 & 138 & 10/21/2020 & 2:25:57 PM & 0:00:04 & 100 \\
\hline 4 & 2086 & 139 & 139 & 10/21/2020 & 2:26:01 PM & 0:00:04 & 100 \\
\hline 10 & 4054 & 140 & 140 & 10/21/2020 & 2:26:05 PM & 0:00:04 & 100 \\
\hline 10 & 4055 & 141 & 141 & 10/21/2020 & 2:26:09 PM & 0:00:04 & 100 \\
\hline 4 & 2087 & 142 & 142 & 10/21/2020 & 2:26:13 PM & 0:00:04 & 98 \\
\hline
\end{tabular}

Page \(\mathbf{4 0}\) of \(\mathbf{8 8}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 4 & 2088 & 143 & 143 & 10/21/2020 & 2:26:17 PM & 0:00:04 & 100 \\
\hline 10 & 4056 & 144 & 144 & 10/21/2020 & 2:26:21 PM & 0:00:04 & 97 \\
\hline 4 & 2089 & 145 & 145 & 10/21/2020 & 2:26:25 PM & 0:00:04 & 100 \\
\hline 4 & 2090 & 146 & 146 & 10/21/2020 & 2:26:29 PM & 0:00:04 & 99 \\
\hline 10 & 4057 & 147 & 147 & 10/21/2020 & 2:26:33 PM & 0:00:04 & 96 \\
\hline 4 & 2091 & 148 & 148 & 10/21/2020 & 2:26:37 PM & 0:00:04 & 100 \\
\hline 4 & 2092 & 149 & 149 & 10/21/2020 & 2:26:41 PM & 0:00:04 & 100 \\
\hline 10 & 4058 & 150 & 150 & 10/21/2020 & 2:26:45 PM & 0:00:04 & 97 \\
\hline 4 & 2093 & 151 & 151 & 10/21/2020 & 2:26:49 PM & 0:00:04 & 100 \\
\hline 4 & 2094 & 152 & 152 & 10/21/2020 & 2:26:53 PM & 0:00:04 & 100 \\
\hline 4 & 2095 & 153 & 153 & 10/21/2020 & 2:26:58 PM & 0:00:04 & 97 \\
\hline 4 & 2096 & 154 & 154 & 10/21/2020 & 2:27:02 PM & 0:00:04 & 99 \\
\hline 7 & 3001 & 155 & 155 & 10/21/2020 & 2:27:06 PM & 0:00:04 & 100 \\
\hline 7 & 3002 & 156 & 156 & 10/21/2020 & 2:27:10 PM & 0:00:04 & 100 \\
\hline 4 & 2097 & 157 & 157 & 10/21/2020 & 2:27:14 PM & 0:00:04 & 100 \\
\hline 7 & 3003 & 158 & 158 & 10/21/2020 & 2:27:18 PM & 0:00:04 & 100 \\
\hline 7 & 3004 & 159 & 159 & 10/21/2020 & 2:27:22 PM & 0:00:04 & 98 \\
\hline 4 & 2098 & 160 & 160 & 10/21/2020 & 2:27:26 PM & 0:00:04 & 100 \\
\hline 7 & 3005 & 161 & 161 & 10/21/2020 & 2:27:30 PM & 0:00:04 & 98 \\
\hline 4 & 2099 & 162 & 162 & 10/21/2020 & 2:27:35 PM & 0:00:04 & 99 \\
\hline 7 & 3006 & 163 & 163 & 10/21/2020 & 2:27:39 PM & 0:00:04 & 100 \\
\hline 4 & 2100 & 164 & 164 & 10/21/2020 & 2:27:43 PM & 0:00:04 & 100 \\
\hline 7 & 3007 & 165 & 165 & 10/21/2020 & 2:27:47 PM & 0:00:04 & 100 \\
\hline 4 & 2101 & 166 & 166 & 10/21/2020 & 2:27:53 PM & 0:00:06 & 100 \\
\hline 7 & 3008 & 167 & 167 & 10/21/2020 & 2:27:58 PM & 0:00:05 & 100 \\
\hline 4 & 2102 & 168 & 168 & 10/21/2020 & 2:28:02 PM & 0:00:04 & 97 \\
\hline 7 & 3009 & 169 & 169 & 10/21/2020 & 2:28:06 PM & 0:00:04 & 95 \\
\hline 4 & 2103 & 170 & 170 & 10/21/2020 & 2:28:10 PM & 0:00:04 & 99 \\
\hline 7 & 3010 & 171 & 171 & 10/21/2020 & 2:28:14 PM & 0:00:04 & 99 \\
\hline 4 & 2104 & 172 & 172 & 10/21/2020 & 2:28:18 PM & 0:00:04 & 99 \\
\hline 7 & 3011 & 173 & 173 & 10/21/2020 & 2:28:22 PM & 0:00:04 & 98 \\
\hline 4 & 2105 & 174 & 174 & 10/21/2020 & 2:28:26 PM & 0:00:04 & 100 \\
\hline 7 & 3012 & 175 & 175 & 10/21/2020 & 2:28:30 PM & 0:00:04 & 100 \\
\hline 7 & 3013 & 176 & 176 & 10/21/2020 & 2:28:34 PM & 0:00:04 & 98 \\
\hline 4 & 2106 & 177 & 177 & 10/21/2020 & 2:28:38 PM & 0:00:04 & 95 \\
\hline 7 & 3014 & 178 & 178 & 10/21/2020 & 2:28:42 PM & 0:00:04 & 100 \\
\hline 4 & 2107 & 179 & 179 & 10/21/2020 & 2:28:47 PM & 0:00:04 & 95 \\
\hline 7 & 3015 & 180 & 180 & 10/21/2020 & 2:28:50 PM & 0:00:04 & 94 \\
\hline 4 & 2108 & 181 & 181 & 10/21/2020 & 2:28:54 PM & 0:00:04 & 100 \\
\hline 7 & 3016 & 182 & 182 & 10/21/2020 & 2:28:58 PM & 0:00:04 & 100 \\
\hline 7 & 3017 & 183 & 183 & 10/21/2020 & 2:29:02 PM & 0:00:04 & 100 \\
\hline 4 & 2109 & 184 & 184 & 10/21/2020 & 2:29:06 PM & 0:00:04 & 94 \\
\hline 7 & 3018 & 185 & 185 & 10/21/2020 & 2:29:10 PM & 0:00:04 & 97 \\
\hline 7 & 3019 & 186 & 186 & 10/21/2020 & 2:29:15 PM & 0:00:05 & 95 \\
\hline 2 & 1001 & 187 & 187 & 10/21/2020 & 2:29:19 PM & 0:00:04 & 75 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 7 & 3020 & 188 & 188 & 10/21/2020 & 2:29:22 PM & 0:00:03 & 99 \\
\hline 7 & 3021 & 189 & 189 & 10/21/2020 & 2:29:26 PM & 0:00:04 & 99 \\
\hline 7 & 3022 & 190 & 190 & 10/21/2020 & 2:29:31 PM & 0:00:04 & 99 \\
\hline 7 & 3023 & 191 & 191 & 10/21/2020 & 2:29:35 PM & 0:00:04 & 100 \\
\hline 7 & 3024 & 192 & 192 & 10/21/2020 & 2:29:40 PM & 0:00:05 & 99 \\
\hline 4 & 2110 & 193 & 193 & 10/21/2020 & 2:29:44 PM & 0:00:04 & 98 \\
\hline 7 & 3025 & 194 & 194 & 10/21/2020 & 2:29:48 PM & 0:00:05 & 100 \\
\hline 4 & 2111 & 195 & 195 & 10/21/2020 & 2:29:53 PM & 0:00:04 & 100 \\
\hline 7 & 3026 & 196 & 196 & 10/21/2020 & 2:29:57 PM & 0:00:04 & 100 \\
\hline 7 & 3027 & 197 & 197 & 10/21/2020 & 2:30:01 PM & 0:00:04 & 100 \\
\hline 7 & 3028 & 198 & 198 & 10/21/2020 & 2:30:05 PM & 0:00:04 & 100 \\
\hline 2 & 1002 & 199 & 199 & 10/21/2020 & 2:30:09 PM & 0:00:04 & 21 \\
\hline 2 & 1003 & 200 & 200 & 10/21/2020 & 2:30:10 PM & 0:00:02 & 75 \\
\hline 2 & 1004 & 201 & 201 & 10/21/2020 & 2:30:14 PM & 0:00:04 & 80 \\
\hline 4 & 2112 & 202 & 202 & 10/21/2020 & 2:30:17 PM & 0:00:03 & 99 \\
\hline 4 & 2113 & 203 & 203 & 10/21/2020 & 2:30:22 PM & 0:00:04 & 95 \\
\hline 4 & 2114 & 204 & 204 & 10/21/2020 & 2:30:25 PM & 0:00:04 & 98 \\
\hline 4 & 2115 & 205 & 205 & 10/21/2020 & 2:30:29 PM & 0:00:04 & 96 \\
\hline 4 & 2116 & 206 & 206 & 10/21/2020 & 2:30:34 PM & 0:00:04 & 99 \\
\hline 4 & 2117 & 207 & 207 & 10/21/2020 & 2:30:38 PM & 0:00:04 & 100 \\
\hline 4 & 2118 & 208 & 208 & 10/21/2020 & 2:30:42 PM & 0:00:04 & 100 \\
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\hline 4 & 2120 & 210 & 210 & 10/21/2020 & 2:30:50 PM & 0:00:04 & 100 \\
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\hline 2 & 1007 & 216 & 216 & 10/21/2020 & 2:31:11 PM & 0:00:02 & 76 \\
\hline 2 & 1008 & 217 & 217 & 10/21/2020 & 2:31:14 PM & 0:00:03 & 14 \\
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\hline 10 & 4063 & 222 & 222 & 10/21/2020 & 2:31:32 PM & 0:00:04 & 100 \\
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\hline 10 & 4066 & 225 & 225 & 10/21/2020 & 2:31:44 PM & 0:00:04 & 100 \\
\hline 10 & 4067 & 226 & 226 & 10/21/2020 & 2:31:49 PM & 0:00:04 & 99 \\
\hline 10 & 4068 & 227 & 227 & 10/21/2020 & 2:31:53 PM & 0:00:04 & 100 \\
\hline 10 & 4069 & 228 & 228 & 10/21/2020 & 2:31:57 PM & 0:00:04 & 100 \\
\hline 10 & 4070 & 229 & 229 & 10/21/2020 & 2:32:02 PM & 0:00:04 & 100 \\
\hline 10 & 4071 & 230 & 230 & 10/21/2020 & 2:32:06 PM & 0:00:04 & 99 \\
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\hline 10 & 4073 & 232 & 232 & 10/21/2020 & 2:32:15 PM & 0:00:05 & 100 \\
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\hline 7 & 3051 & 282 & 282 & 10/21/2020 & 3:45:43 PM & 0:03:04 & 99 \\
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\hline 4 & 2125 & 288 & 288 & 10/21/2020 & 4:08:43 PM & 0:02:04 & 100 \\
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\hline 4 & 2147 & 314 & 314 & 10/22/2020 & 9:08:43 AM & 0:06:53 & 96 \\
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\hline 10 & 4107 & 319 & 319 & 10/22/2020 & 9:24:52 AM & 0:03:04 & 100 \\
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\hline 10 & 4108 & 321 & 321 & 10/22/2020 & 9:30:46 AM & 0:01:04 & 100 \\
\hline 4 & 2151 & 322 & 322 & 10/22/2020 & 9:32:50 AM & 0:02:04 & 100 \\
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\hline 4 & 2157 & 334 & 334 & 10/22/2020 & 9:58:41 AM & 0:01:49 & 100 \\
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\hline 4 & 2158 & 336 & 336 & 10/22/2020 & 10:01:50 AM & 0:01:05 & 100 \\
\hline 4 & 2159 & 337 & 337 & 10/22/2020 & 10:04:42 AM & 0:02:52 & 100 \\
\hline 4 & 2160 & 338 & 338 & 10/22/2020 & 10:09:47 AM & 0:05:05 & 100 \\
\hline 4 & 2161 & 339 & 339 & 10/22/2020 & 10:12:52 AM & 0:03:05 & 100 \\
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\hline 10 & 4116 & 341 & 341 & 10/22/2020 & 10:18:47 AM & 0:03:05 & 99 \\
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\hline 4 & 2164 & 346 & 346 & 10/22/2020 & 10:31:54 AM & 0:03:04 & 99 \\
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\hline 10 & 4121 & 348 & 348 & 10/22/2020 & 10:36:46 AM & 0:04:04 & 100 \\
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\hline 10 & 4122 & 350 & 350 & 10/22/2020 & 10:41:42 AM & 0:03:51 & 100 \\
\hline 4 & 2166 & 351 & 351 & 10/22/2020 & 10:44:46 AM & 0:03:05 & 95 \\
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\hline 4 & 2168 & 354 & 354 & 10/22/2020 & 10:57:44 AM & 0:05:04 & 65 \\
\hline 4 & 2169 & 355 & 355 & 10/22/2020 & 11:08:49 AM & 0:11:05 & 85 \\
\hline 4 & 2170 & 356 & 356 & 10/22/2020 & 11:09:53 AM & 0:01:04 & 85 \\
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\hline 10 & 4129 & 380 & 380 & 10/22/2020 & 4:45:50 PM & 0:03:04 & 100 \\
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\hline 4 & 2186 & 385 & 385 & 10/22/2020 & 5:06:44 PM & 0:02:50 & 100 \\
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\hline 4 & 2214 & 450 & 450 & 10/26/2020 & 3:19:43 PM & 0:02:49 & 37 \\
\hline 4 & 2215 & 451 & 451 & 10/26/2020 & 3:26:47 PM & 0:07:04 & 99 \\
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\hline 4 & 2225 & 461 & 461 & 10/26/2020 & 5:12:49 PM & 0:03:05 & 100 \\
\hline 4 & 2226 & 462 & 462 & 10/26/2020 & 5:15:54 PM & 0:03:04 & 98 \\
\hline 4 & 2227 & 463 & 463 & 10/26/2020 & 5:21:44 PM & 0:05:50 & 100 \\
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\hline 10 & 4164 & 473 & 473 & 10/27/2020 & 1:16:00 PM & 0:01:04 & 82 \\
\hline 4 & 2234 & 474 & 474 & 10/27/2020 & 1:19:04 PM & 0:03:04 & 100 \\
\hline 10 & 4165 & 475 & 475 & 10/27/2020 & 1:19:53 PM & 0:00:49 & 99 \\
\hline 4 & 2235 & 476 & 476 & 10/27/2020 & 1:21:57 PM & 0:02:04 & 100 \\
\hline 10 & 4166 & 477 & 477 & 10/27/2020 & 1:23:02 PM & 0:01:04 & 100 \\
\hline 4 & 2236 & 478 & 478 & 10/27/2020 & 1:24:51 PM & 0:01:49 & 99 \\
\hline 2 & 1020 & 479 & 479 & 10/27/2020 & 1:30:56 PM & 0:06:06 & 84 \\
\hline 2 & 1021 & 480 & 480 & 10/27/2020 & 1:35:00 PM & 0:04:04 & 34 \\
\hline 2 & 1022 & 481 & 481 & 10/27/2020 & 1:38:03 PM & 0:03:02 & 74 \\
\hline 2 & 1023 & 482 & 482 & 10/27/2020 & 1:38:51 PM & 0:00:49 & 71 \\
\hline 4 & 2237 & 483 & 483 & 10/27/2020 & 1:49:57 PM & 0:11:05 & 100 \\
\hline 4 & 2238 & 484 & 484 & 10/27/2020 & 1:53:01 PM & 0:03:05 & 100 \\
\hline 4 & 2239 & 485 & 485 & 10/27/2020 & 1:55:52 PM & 0:02:50 & 100 \\
\hline 4 & 2240 & 486 & 486 & 10/27/2020 & 2:01:57 PM & 0:06:06 & 98 \\
\hline 4 & 2241 & 487 & 487 & 10/27/2020 & 2:06:02 PM & 0:04:05 & 100 \\
\hline 4 & 2242 & 488 & 488 & 10/27/2020 & 2:07:51 PM & 0:01:49 & 100 \\
\hline 4 & 2243 & 489 & 489 & 10/27/2020 & 2:14:57 PM & 0:07:05 & 100 \\
\hline 4 & 2244 & 490 & 490 & 10/27/2020 & 2:18:01 PM & 0:03:05 & 100 \\
\hline 4 & 2245 & 491 & 491 & 10/27/2020 & 2:20:51 PM & 0:02:50 & 100 \\
\hline 4 & 2246 & 492 & 492 & 10/27/2020 & 2:24:56 PM & 0:04:05 & 100 \\
\hline 4 & 2247 & 493 & 493 & 10/27/2020 & 2:29:01 PM & 0:04:05 & 96 \\
\hline 10 & 4167 & 494 & 494 & 10/27/2020 & 2:29:50 PM & 0:00:49 & 68 \\
\hline 4 & 2248 & 495 & 495 & 10/27/2020 & 2:30:53 PM & 0:01:03 & 99 \\
\hline 10 & 4168 & 496 & 496 & 10/27/2020 & 2:31:57 PM & 0:01:04 & 100 \\
\hline 4 & 2249 & 497 & 497 & 10/27/2020 & 2:35:02 PM & 0:03:05 & 100 \\
\hline 10 & 4169 & 498 & 498 & 10/27/2020 & 2:35:06 PM & 0:00:04 & 100 \\
\hline 4 & 2250 & 499 & 499 & 10/27/2020 & 2:38:56 PM & 0:03:50 & 100 \\
\hline 10 & 4170 & 500 & 500 & 10/27/2020 & 2:41:00 PM & 0:02:04 & 99 \\
\hline 4 & 2251 & 501 & 501 & 10/27/2020 & 2:42:04 PM & 0:01:04 & 100 \\
\hline 10 & 4171 & 502 & 502 & 10/27/2020 & 2:44:53 PM & 0:02:50 & 100 \\
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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 4 & 2252 & 503 & 503 & 10/27/2020 & 2:45:58 PM & 0:01:04 & 100 \\
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\hline 4 & 2254 & 506 & 506 & 10/27/2020 & 2:54:58 PM & 0:05:05 & 98 \\
\hline 4 & 2255 & 507 & 507 & 10/27/2020 & 2:59:02 PM & 0:04:05 & 100 \\
\hline 4 & 2256 & 508 & 508 & 10/27/2020 & 3:01:52 PM & 0:02:50 & 100 \\
\hline 4 & 2257 & 509 & 509 & 10/27/2020 & 3:08:57 PM & 0:07:05 & 100 \\
\hline 4 & 2258 & 510 & 510 & 10/27/2020 & 3:16:03 PM & 0:07:05 & 100 \\
\hline 4 & 2259 & 511 & 511 & 10/27/2020 & 3:22:54 PM & 0:06:51 & 100 \\
\hline 4 & 2260 & 512 & 512 & 10/27/2020 & 3:25:58 PM & 0:03:05 & 100 \\
\hline 4 & 2261 & 513 & 513 & 10/27/2020 & 3:30:03 PM & 0:04:05 & 100 \\
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\hline 10 & 4174 & 515 & 515 & 10/27/2020 & 3:37:58 PM & 0:06:05 & 99 \\
\hline 4 & 2262 & 516 & 516 & 10/27/2020 & 3:39:02 PM & 0:01:04 & 100 \\
\hline 4 & 2263 & 517 & 517 & 10/27/2020 & 3:44:53 PM & 0:05:51 & 100 \\
\hline 10 & 4175 & 518 & 518 & 10/27/2020 & 3:45:11 PM & 0:00:19 & 100 \\
\hline 10 & 4176 & 519 & 519 & 10/27/2020 & 4:06:05 PM & 0:20:53 & 98 \\
\hline 10 & 4177 & 520 & 520 & 10/27/2020 & 4:09:54 PM & 0:03:50 & 98 \\
\hline 10 & 4178 & 521 & 521 & 10/27/2020 & 4:13:59 PM & 0:04:05 & 100 \\
\hline 10 & 4179 & 522 & 522 & 10/27/2020 & 4:18:04 PM & 0:04:05 & 100 \\
\hline 10 & 4180 & 523 & 523 & 10/27/2020 & 4:21:54 PM & 0:03:50 & 100 \\
\hline 10 & 4181 & 524 & 524 & 10/27/2020 & 4:25:59 PM & 0:04:05 & 100 \\
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\hline 10 & 4182 & 526 & 526 & 10/27/2020 & 4:28:52 PM & 0:01:49 & 100 \\
\hline 4 & 2265 & 527 & 527 & 10/27/2020 & 4:29:56 PM & 0:01:04 & 100 \\
\hline 10 & 4183 & 528 & 528 & 10/27/2020 & 4:32:00 PM & 0:02:04 & 100 \\
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\hline 10 & 4184 & 530 & 530 & 10/27/2020 & 4:35:57 PM & 0:03:05 & 98 \\
\hline 4 & 2267 & 531 & 531 & 10/27/2020 & 4:42:02 PM & 0:06:05 & 99 \\
\hline 4 & 2268 & 532 & 532 & 10/27/2020 & 4:49:53 PM & 0:07:51 & 99 \\
\hline 4 & 2269 & 533 & 533 & 10/27/2020 & 4:54:58 PM & 0:05:05 & 90 \\
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\hline 7 & 3058 & 535 & 535 & 10/27/2020 & 7:01:02 PM & 0:06:04 & 99 \\
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\hline 4 & 2271 & 537 & 537 & 10/29/2020 & 12:58:08 PM & & 100 \\
\hline 4 & 2272 & 538 & 538 & 10/29/2020 & 1:01:13 PM & 0:03:05 & 100 \\
\hline 4 & 2273 & 539 & 539 & 10/29/2020 & 1:08:05 PM & 0:06:52 & 100 \\
\hline 4 & 2274 & 540 & 540 & 10/29/2020 & 1:12:10 PM & 0:04:05 & 100 \\
\hline 4 & 2275 & 541 & 541 & 10/29/2020 & 1:17:00 PM & 0:04:50 & 98 \\
\hline 4 & 2276 & 542 & 542 & 10/29/2020 & 1:21:05 PM & 0:04:05 & 100 \\
\hline 4 & 2277 & 543 & 543 & 10/29/2020 & 1:24:09 PM & 0:03:04 & 100 \\
\hline 4 & 2278 & 544 & 544 & 10/29/2020 & 1:30:01 PM & 0:05:52 & 100 \\
\hline 4 & 2279 & 545 & 545 & 10/29/2020 & 1:36:06 PM & 0:06:05 & 100 \\
\hline 4 & 2280 & 546 & 546 & 10/29/2020 & 1:40:11 PM & 0:04:05 & 99 \\
\hline 4 & 2281 & 547 & 547 & 10/29/2020 & 1:44:02 PM & 0:03:51 & 100 \\
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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 4 & 2282 & 548 & 548 & 10/29/2020 & 1:48:06 PM & 0:04:05 & 99 \\
\hline 4 & 2283 & 549 & 549 & 10/29/2020 & 1:54:11 PM & 0:06:05 & 100 \\
\hline 4 & 2284 & 550 & 550 & 10/29/2020 & 1:56:02 PM & 0:01:51 & 100 \\
\hline 4 & 2285 & 551 & 551 & 10/29/2020 & 1:59:07 PM & 0:03:05 & 100 \\
\hline 4 & 2286 & 552 & 552 & 10/29/2020 & 2:02:12 PM & 0:03:05 & 100 \\
\hline 4 & 2287 & 553 & 553 & 10/29/2020 & 2:09:03 PM & 0:06:51 & 100 \\
\hline 4 & 2288 & 554 & 554 & 10/29/2020 & 2:13:08 PM & 0:04:05 & 100 \\
\hline 4 & 2289 & 555 & 555 & 10/29/2020 & 2:19:12 PM & 0:06:05 & 100 \\
\hline 4 & 2290 & 556 & 556 & 10/29/2020 & 2:22:02 PM & 0:02:50 & 100 \\
\hline 4 & 2291 & 557 & 557 & 10/29/2020 & 2:25:07 PM & 0:03:05 & 100 \\
\hline 4 & 2292 & 558 & 558 & 10/29/2020 & 2:36:13 PM & 0:11:06 & 100 \\
\hline 4 & 2293 & 559 & 559 & 10/29/2020 & 2:38:04 PM & 0:01:51 & 100 \\
\hline 4 & 2294 & 560 & 560 & 10/29/2020 & 2:40:09 PM & 0:02:04 & 100 \\
\hline 4 & 2295 & 561 & 561 & 10/29/2020 & 2:45:13 PM & 0:05:05 & 97 \\
\hline 4 & 2296 & 562 & 562 & 10/29/2020 & 2:49:03 PM & 0:03:50 & 99 \\
\hline 4 & 2297 & 563 & 563 & 10/29/2020 & 2:51:07 PM & 0:02:04 & 100 \\
\hline 4 & 2298 & 564 & 564 & 10/29/2020 & 2:54:14 PM & 0:03:06 & 100 \\
\hline 4 & 2299 & 565 & 565 & 10/29/2020 & 2:57:03 PM & 0:02:50 & 100 \\
\hline 4 & 2300 & 566 & 566 & 10/29/2020 & 3:00:08 PM & 0:03:05 & 100 \\
\hline 2 & 1025 & 567 & 567 & 10/29/2020 & 3:16:15 PM & 0:16:07 & 72 \\
\hline 2 & 1026 & 568 & 568 & 10/29/2020 & 3:17:03 PM & 0:00:48 & 61 \\
\hline 2 & 1027 & 569 & 569 & 10/29/2020 & 3:23:07 PM & 0:06:04 & 83 \\
\hline 2 & 1028 & 570 & 570 & 10/29/2020 & 3:25:11 PM & 0:02:04 & 82 \\
\hline 2 & 1029 & 571 & 571 & 10/29/2020 & 3:27:14 PM & 0:02:04 & 59 \\
\hline 2 & 1030 & 572 & 572 & 10/29/2020 & 3:33:03 PM & 0:05:49 & 82 \\
\hline 2 & 1031 & 573 & 573 & 10/29/2020 & 3:34:07 PM & 0:01:03 & 81 \\
\hline 2 & 1032 & 574 & 574 & 10/29/2020 & 3:35:10 PM & 0:01:03 & 76 \\
\hline 2 & 1033 & 575 & 575 & 10/29/2020 & 3:37:13 PM & 0:02:04 & 73 \\
\hline 2 & 1034 & 576 & 576 & 10/29/2020 & 3:41:02 PM & 0:03:49 & 52 \\
\hline 4 & 2301 & 577 & 577 & 10/29/2020 & 3:45:05 PM & 0:04:03 & 100 \\
\hline 4 & 2302 & 578 & 578 & 10/29/2020 & 3:48:10 PM & 0:03:04 & 99 \\
\hline 4 & 2303 & 579 & 579 & 10/29/2020 & 3:52:14 PM & 0:04:05 & 100 \\
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\hline 4 & 2308 & 584 & 584 & 10/29/2020 & 4:11:08 PM & 0:04:05 & 100 \\
\hline 4 & 2309 & 585 & 585 & 10/29/2020 & 4:13:12 PM & 0:02:04 & 100 \\
\hline 4 & 2310 & 586 & 586 & 10/29/2020 & 4:17:03 PM & 0:03:50 & 98 \\
\hline 4 & 2311 & 587 & 587 & 10/29/2020 & 4:20:07 PM & 0:03:04 & 100 \\
\hline 4 & 2312 & 588 & 588 & 10/29/2020 & 4:23:12 PM & 0:03:05 & 100 \\
\hline 4 & 2313 & 589 & 589 & 10/29/2020 & 4:26:04 PM & 0:02:52 & 99 \\
\hline 4 & 2314 & 590 & 590 & 10/29/2020 & 4:32:09 PM & 0:06:05 & 98 \\
\hline 4 & 2315 & 591 & 591 & 10/29/2020 & 4:38:14 PM & 0:06:05 & 100 \\
\hline 4 & 2316 & 592 & 592 & 10/29/2020 & 4:41:04 PM & 0:02:50 & 100 \\
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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 4 & 2317 & 593 & 593 & 10/29/2020 & 4:49:10 PM & 0:08:06 & 100 \\
\hline 4 & 2318 & 594 & 594 & 10/29/2020 & 4:52:14 PM & 0:03:05 & 99 \\
\hline 4 & 2319 & 595 & 595 & 10/29/2020 & 4:56:04 PM & 0:03:50 & 100 \\
\hline 4 & 2320 & 596 & 596 & 10/29/2020 & 4:59:09 PM & 0:03:05 & 99 \\
\hline 4 & 2321 & 597 & 597 & 10/29/2020 & 5:01:13 PM & 0:02:04 & 100 \\
\hline 4 & 2322 & 598 & 598 & 10/29/2020 & 5:07:05 PM & 0:05:52 & 99 \\
\hline 4 & 2323 & 599 & 599 & 10/29/2020 & 5:11:09 PM & 0:04:05 & 99 \\
\hline 4 & 2324 & 600 & 600 & 10/29/2020 & 5:14:14 PM & 0:03:05 & 100 \\
\hline 4 & 2325 & 601 & 601 & 10/29/2020 & 5:16:03 PM & 0:01:49 & 100 \\
\hline 4 & 2326 & 602 & 602 & 10/29/2020 & 5:20:08 PM & 0:04:05 & 100 \\
\hline 4 & 2327 & 603 & 603 & 10/29/2020 & 5:22:13 PM & 0:02:04 & 100 \\
\hline 4 & 2328 & 604 & 604 & 10/29/2020 & 5:25:04 PM & 0:02:51 & 100 \\
\hline 4 & 2329 & 605 & 605 & 10/29/2020 & 5:30:09 PM & 0:05:05 & 100 \\
\hline 7 & 3059 & 606 & 606 & 10/30/2020 & 12:37:26 PM & & 97 \\
\hline 7 & 3060 & 607 & 607 & 10/30/2020 & 12:41:16 PM & 0:03:50 & 100 \\
\hline 7 & 3061 & 608 & 608 & 10/30/2020 & 12:45:20 PM & 0:04:05 & 100 \\
\hline 7 & 3062 & 609 & 609 & 10/30/2020 & 12:50:11 PM & 0:04:51 & 100 \\
\hline 7 & 3063 & 610 & 610 & 10/30/2020 & 12:55:16 PM & 0:05:05 & 99 \\
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\hline 10 & 4186 & 612 & 612 & 10/30/2020 & 1:20:14 PM & 0:03:50 & 100 \\
\hline 10 & 4187 & 613 & 613 & 10/30/2020 & 1:23:19 PM & 0:03:05 & 100 \\
\hline 10 & 4188 & 614 & 614 & 10/30/2020 & 1:27:24 PM & 0:04:05 & 99 \\
\hline 10 & 4189 & 615 & 615 & 10/30/2020 & 1:30:13 PM & 0:02:49 & 100 \\
\hline 10 & 4190 & 616 & 616 & 10/30/2020 & 1:37:19 PM & 0:07:05 & 100 \\
\hline 10 & 4191 & 617 & 617 & 10/30/2020 & 1:40:23 PM & 0:03:05 & 100 \\
\hline 10 & 4192 & 618 & 618 & 10/30/2020 & 1:43:13 PM & 0:02:50 & 100 \\
\hline 10 & 4193 & 619 & 619 & 10/30/2020 & 1:48:18 PM & 0:05:05 & 100 \\
\hline 10 & 4194 & 620 & 620 & 10/30/2020 & 1:51:23 PM & 0:03:05 & 100 \\
\hline 10 & 4195 & 621 & 621 & 10/30/2020 & 1:54:12 PM & 0:02:50 & 100 \\
\hline 10 & 4196 & 622 & 622 & 10/30/2020 & 2:04:18 PM & 0:10:06 & 99 \\
\hline 10 & 4197 & 623 & 623 & 10/30/2020 & 2:07:23 PM & 0:03:05 & 100 \\
\hline 10 & 4198 & 624 & 624 & 10/30/2020 & 2:13:13 PM & 0:05:50 & 100 \\
\hline 10 & 4199 & 625 & 625 & 10/30/2020 & 2:22:19 PM & 0:09:06 & 96 \\
\hline 10 & 4200 & 626 & 626 & 10/30/2020 & 2:25:23 PM & 0:03:04 & 100 \\
\hline 10 & 4201 & 627 & 627 & 10/30/2020 & 2:28:13 PM & 0:02:50 & 100 \\
\hline 10 & 4202 & 628 & 628 & 10/30/2020 & 2:31:17 PM & 0:03:05 & 100 \\
\hline 10 & 4203 & 629 & 629 & 10/30/2020 & 2:34:22 PM & 0:03:05 & 100 \\
\hline 10 & 4204 & 630 & 630 & 10/30/2020 & 2:41:13 PM & 0:06:51 & 98 \\
\hline 10 & 4205 & 631 & 631 & 10/30/2020 & 2:44:17 PM & 0:03:05 & 100 \\
\hline 10 & 4206 & 632 & 632 & 10/30/2020 & 2:47:22 PM & 0:03:05 & 100 \\
\hline 10 & 4207 & 633 & 633 & 10/30/2020 & 2:51:11 PM & 0:03:50 & 100 \\
\hline 10 & 4208 & 634 & 634 & 10/30/2020 & 2:54:16 PM & 0:03:05 & 100 \\
\hline 10 & 4209 & 635 & 635 & 10/30/2020 & 2:57:21 PM & 0:03:05 & 100 \\
\hline 10 & 4210 & 636 & 636 & 10/30/2020 & 3:00:12 PM & 0:02:51 & 100 \\
\hline 10 & 4211 & 637 & 637 & 10/30/2020 & 3:03:17 PM & 0:03:04 & 100 \\
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\begin{tabular}{|c|c|c|c|c|c|c|c|}
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\hline 10 & 4214 & 642 & 642 & 10/30/2020 & 3:12:22 PM & 0:01:04 & 100 \\
\hline 2 & 1037 & 643 & 643 & 10/30/2020 & 3:14:12 PM & 0:01:49 & 82 \\
\hline 2 & 1038 & 644 & 644 & 10/30/2020 & 3:16:15 PM & 0:02:03 & 69 \\
\hline 2 & 1039 & 645 & 645 & 10/30/2020 & 3:18:18 PM & 0:02:03 & 34 \\
\hline 4 & 2330 & 646 & 646 & 10/30/2020 & 3:25:22 PM & 0:07:03 & 100 \\
\hline 10 & 4215 & 647 & 647 & 10/30/2020 & 3:27:12 PM & 0:01:50 & 93 \\
\hline 4 & 2331 & 648 & 648 & 10/30/2020 & 3:30:16 PM & 0:03:04 & 98 \\
\hline 10 & 4216 & 649 & 649 & 10/30/2020 & 3:35:23 PM & 0:05:07 & 100 \\
\hline 4 & 2332 & 650 & 650 & 10/30/2020 & 3:38:13 PM & 0:02:49 & 100 \\
\hline 10 & 4217 & 651 & 651 & 10/30/2020 & 3:38:31 PM & 0:00:18 & 100 \\
\hline 4 & 2333 & 652 & 652 & 10/30/2020 & 3:47:22 PM & 0:08:51 & 100 \\
\hline 10 & 4218 & 653 & 653 & 10/30/2020 & 3:48:11 PM & 0:00:49 & 100 \\
\hline 4 & 2334 & 654 & 654 & 10/30/2020 & 3:51:16 PM & 0:03:04 & 100 \\
\hline 10 & 4219 & 655 & 655 & 10/30/2020 & 3:53:20 PM & 0:02:05 & 70 \\
\hline 4 & 2335 & 656 & 656 & 10/30/2020 & 3:55:24 PM & 0:02:03 & 100 \\
\hline 10 & 4220 & 657 & 657 & 10/30/2020 & 3:57:13 PM & 0:01:49 & 100 \\
\hline 4 & 2336 & 658 & 658 & 10/30/2020 & 3:59:17 PM & 0:02:04 & 99 \\
\hline 10 & 4221 & 659 & 659 & 10/30/2020 & 4:00:21 PM & 0:01:04 & 100 \\
\hline 10 & 4222 & 660 & 660 & 10/30/2020 & 4:03:11 PM & 0:02:50 & 100 \\
\hline 4 & 2337 & 661 & 661 & 10/30/2020 & 4:04:15 PM & 0:01:04 & 99 \\
\hline 10 & 4223 & 662 & 662 & 10/30/2020 & 4:07:20 PM & 0:03:05 & 100 \\
\hline 10 & 4224 & 663 & 663 & 10/30/2020 & 4:10:25 PM & 0:03:05 & 100 \\
\hline 4 & 2338 & 664 & 664 & 10/30/2020 & 4:11:14 PM & 0:00:49 & 100 \\
\hline 4 & 2339 & 665 & 665 & 10/30/2020 & 4:17:19 PM & 0:06:05 & 99 \\
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\hline 4 & 2341 & 667 & 667 & 10/30/2020 & 4:27:14 PM & 0:04:50 & 84 \\
\hline 4 & 2342 & 668 & 668 & 10/30/2020 & 4:32:18 PM & 0:05:04 & 75 \\
\hline 4 & 2343 & 669 & 669 & 10/30/2020 & 4:37:22 PM & 0:05:04 & 68 \\
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\hline 10 & 4226 & 671 & 671 & 11/1/2020 & 1:59:40 PM & 0:03:05 & 100 \\
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\hline 10 & 4228 & 673 & 673 & 11/1/2020 & 2:04:34 PM & 0:03:05 & 100 \\
\hline 10 & 4229 & 674 & 674 & 11/1/2020 & 2:09:39 PM & 0:05:05 & 100 \\
\hline 10 & 4230 & 675 & 675 & 11/1/2020 & 2:12:43 PM & 0:03:05 & 100 \\
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\hline 10 & 4232 & 677 & 677 & 11/1/2020 & 2:22:38 PM & 0:05:05 & 99 \\
\hline 10 & 4233 & 678 & 678 & 11/1/2020 & 2:26:43 PM & 0:04:05 & 99 \\
\hline 10 & 4234 & 679 & 679 & 11/1/2020 & 2:29:32 PM & 0:02:49 & 100 \\
\hline 10 & 4235 & 680 & 680 & 11/1/2020 & 2:32:37 PM & 0:03:05 & 99 \\
\hline 10 & 4236 & 681 & 681 & 11/1/2020 & 2:35:41 PM & 0:03:05 & 100 \\
\hline 10 & 4237 & 682 & 682 & 11/1/2020 & 2:38:31 PM & 0:02:49 & 100 \\
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Page \(\mathbf{5 2}\) of \(\mathbf{8 8}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
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\hline 10 & 4240 & 685 & 685 & 11/1/2020 & 2:54:31 PM & 0:02:49 & 100 \\
\hline 10 & 4241 & 686 & 686 & 11/1/2020 & 2:57:36 PM & 0:03:05 & 100 \\
\hline 10 & 4242 & 687 & 687 & 11/1/2020 & 3:00:40 PM & 0:03:05 & 99 \\
\hline 10 & 4243 & 688 & 688 & 11/1/2020 & 3:05:31 PM & 0:04:51 & 100 \\
\hline 10 & 4244 & 689 & 689 & 11/1/2020 & 3:07:35 PM & 0:02:04 & 100 \\
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\hline 7 & 3065 & 691 & 691 & 11/1/2020 & 3:17:32 PM & 0:02:50 & 100 \\
\hline 7 & 3066 & 692 & 692 & 11/1/2020 & 3:20:36 PM & 0:03:05 & 100 \\
\hline 7 & 3067 & 693 & 693 & 11/1/2020 & 3:24:41 PM & 0:04:05 & 100 \\
\hline 10 & 4245 & 694 & 694 & 11/1/2020 & 3:35:32 PM & 0:10:51 & 100 \\
\hline 10 & 4246 & 695 & 695 & 11/1/2020 & 3:38:37 PM & 0:03:05 & 100 \\
\hline 10 & 4247 & 696 & 696 & 11/1/2020 & 3:41:41 PM & 0:03:05 & 100 \\
\hline 10 & 4248 & 697 & 697 & 11/1/2020 & 3:45:31 PM & 0:03:50 & 99 \\
\hline 10 & 4249 & 698 & 698 & 11/1/2020 & 3:49:36 PM & 0:04:05 & 99 \\
\hline 10 & 4250 & 699 & 699 & 11/1/2020 & 3:51:40 PM & 0:02:04 & 100 \\
\hline 10 & 4251 & 700 & 700 & 11/1/2020 & 3:54:30 PM & 0:02:50 & 100 \\
\hline 10 & 4252 & 701 & 701 & 11/1/2020 & 3:57:35 PM & 0:03:05 & 100 \\
\hline 10 & 4253 & 702 & 702 & 11/1/2020 & 4:00:39 PM & 0:03:05 & 100 \\
\hline 10 & 4254 & 703 & 703 & 11/1/2020 & 4:02:44 PM & 0:02:04 & 100 \\
\hline 10 & 4255 & 704 & 704 & 11/1/2020 & 4:05:33 PM & 0:02:49 & 100 \\
\hline 10 & 4256 & 705 & 705 & 11/1/2020 & 4:12:39 PM & 0:07:05 & 100 \\
\hline 10 & 4257 & 706 & 706 & 11/1/2020 & 4:15:43 PM & 0:03:05 & 100 \\
\hline 10 & 4258 & 707 & 707 & 11/1/2020 & 4:19:33 PM & 0:03:50 & 100 \\
\hline 10 & 4259 & 708 & 708 & 11/1/2020 & 4:24:38 PM & 0:05:05 & 100 \\
\hline 4 & 2344 & 709 & 709 & 11/1/2020 & 4:27:42 PM & 0:03:04 & 70 \\
\hline 10 & 4260 & 710 & 710 & 11/1/2020 & 4:27:45 PM & 0:00:03 & 100 \\
\hline 10 & 4261 & 711 & 711 & 11/1/2020 & 4:30:35 PM & 0:02:50 & 100 \\
\hline 4 & 2345 & 712 & 712 & 11/1/2020 & 4:32:39 PM & 0:02:04 & 100 \\
\hline 10 & 4262 & 713 & 713 & 11/1/2020 & 4:33:43 PM & 0:01:04 & 100 \\
\hline 10 & 4263 & 714 & 714 & 11/1/2020 & 4:36:33 PM & 0:02:50 & 100 \\
\hline 10 & 4264 & 715 & 715 & 11/1/2020 & 4:38:37 PM & 0:02:04 & 99 \\
\hline 10 & 4265 & 716 & 716 & 11/1/2020 & 4:42:42 PM & 0:04:05 & 100 \\
\hline 4 & 2346 & 717 & 717 & 11/1/2020 & 4:45:31 PM & 0:02:49 & 99 \\
\hline 10 & 4266 & 718 & 718 & 11/1/2020 & 4:46:36 PM & 0:01:04 & 100 \\
\hline 4 & 2347 & 719 & 719 & 11/1/2020 & 4:48:39 PM & 0:02:04 & 22 \\
\hline 10 & 4267 & 720 & 720 & 11/1/2020 & 4:51:42 PM & 0:03:02 & 100 \\
\hline 10 & 4268 & 721 & 721 & 11/1/2020 & 4:54:31 PM & 0:02:50 & 100 \\
\hline 2 & 1040 & 722 & 722 & 11/2/2020 & 3:06:33 PM & & 94 \\
\hline 2 & 1041 & 723 & 723 & 11/2/2020 & 3:06:36 PM & 0:00:03 & 91 \\
\hline 2 & 1042 & 724 & 724 & 11/2/2020 & 3:06:39 PM & 0:00:03 & 77 \\
\hline 2 & 1043 & 725 & 725 & 11/2/2020 & 3:06:58 PM & 0:00:19 & 75 \\
\hline 2 & 1044 & 726 & 726 & 11/2/2020 & 3:07:01 PM & 0:00:03 & 83 \\
\hline 2 & 1045 & 727 & 727 & 11/2/2020 & 3:07:04 PM & 0:00:03 & 80 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 2 & 1046 & 728 & 728 & 11/2/2020 & 3:07:07 PM & 0:00:03 & 72 \\
\hline 2 & 1047 & 729 & 729 & 11/2/2020 & 3:07:10 PM & 0:00:03 & 75 \\
\hline 2 & 1048 & 730 & 730 & 11/2/2020 & 3:07:13 PM & 0:00:03 & 36 \\
\hline 2 & 1049 & 731 & 731 & 11/2/2020 & 3:07:14 PM & 0:00:02 & 51 \\
\hline 2 & 1050 & 732 & 732 & 11/2/2020 & 3:07:17 PM & 0:00:02 & 55 \\
\hline 2 & 1051 & 733 & 733 & 11/2/2020 & 3:07:19 PM & 0:00:02 & 35 \\
\hline 2 & 1052 & 734 & 734 & 11/2/2020 & 3:07:21 PM & 0:00:02 & 61 \\
\hline 2 & 1053 & 735 & 735 & 11/2/2020 & 3:07:23 PM & 0:00:03 & 64 \\
\hline 2 & 1054 & 736 & 736 & 11/2/2020 & 3:07:26 PM & 0:00:03 & 53 \\
\hline 2 & 1055 & 737 & 737 & 11/2/2020 & 3:07:29 PM & 0:00:03 & 55 \\
\hline 2 & 1056 & 738 & 738 & 11/2/2020 & 3:07:47 PM & 0:00:18 & 98 \\
\hline 10 & 4269 & 739 & 739 & 11/2/2020 & 3:07:51 PM & 0:00:04 & 99 \\
\hline 2 & 1057 & 740 & 740 & 11/2/2020 & 3:08:26 PM & 0:00:35 & 97 \\
\hline 10 & 4270 & 741 & 741 & 11/2/2020 & 3:08:45 PM & 0:00:19 & 100 \\
\hline 2 & 1058 & 742 & 742 & 11/2/2020 & 3:10:34 PM & 0:01:49 & 97 \\
\hline 2 & 1059 & 743 & 743 & 11/2/2020 & 3:12:23 PM & 0:01:49 & 32 \\
\hline 10 & 4271 & 744 & 744 & 11/2/2020 & 3:13:26 PM & 0:01:03 & 100 \\
\hline 2 & 1060 & 745 & 745 & 11/2/2020 & 3:17:30 PM & 0:04:05 & 61 \\
\hline 2 & 1061 & 746 & 746 & 11/2/2020 & 3:19:33 PM & 0:02:03 & 62 \\
\hline 2 & 1062 & 747 & 747 & 11/2/2020 & 3:20:36 PM & 0:01:03 & 30 \\
\hline 10 & 4272 & 748 & 748 & 11/2/2020 & 3:22:38 PM & 0:02:02 & 98 \\
\hline 10 & 4273 & 749 & 749 & 11/2/2020 & 3:26:28 PM & 0:03:50 & 100 \\
\hline 4 & 2348 & 750 & 750 & 11/2/2020 & 3:28:32 PM & 0:02:04 & 99 \\
\hline 10 & 4274 & 751 & 751 & 11/2/2020 & 3:29:36 PM & 0:01:04 & 100 \\
\hline 4 & 2349 & 752 & 752 & 11/2/2020 & 3:31:26 PM & 0:01:50 & 100 \\
\hline 10 & 4275 & 753 & 753 & 11/2/2020 & 3:32:31 PM & 0:01:04 & 100 \\
\hline 4 & 2350 & 754 & 754 & 11/2/2020 & 3:34:35 PM & 0:02:04 & 100 \\
\hline 4 & 2351 & 755 & 755 & 11/2/2020 & 3:36:26 PM & 0:01:51 & 100 \\
\hline 10 & 4276 & 756 & 756 & 11/2/2020 & 3:37:31 PM & 0:01:04 & 99 \\
\hline 4 & 2352 & 757 & 757 & 11/2/2020 & 3:40:35 PM & 0:03:05 & 100 \\
\hline 10 & 4277 & 758 & 758 & 11/2/2020 & 3:40:39 PM & 0:00:04 & 100 \\
\hline 4 & 2353 & 759 & 759 & 11/2/2020 & 3:44:29 PM & 0:03:50 & 100 \\
\hline 10 & 4278 & 760 & 760 & 11/2/2020 & 3:45:33 PM & 0:01:04 & 100 \\
\hline 4 & 2354 & 761 & 761 & 11/2/2020 & 3:50:25 PM & 0:04:51 & 100 \\
\hline 10 & 4279 & 762 & 762 & 11/2/2020 & 3:50:45 PM & 0:00:20 & 99 \\
\hline 10 & 4280 & 763 & 763 & 11/2/2020 & 3:54:34 PM & 0:03:50 & 100 \\
\hline 4 & 2355 & 764 & 764 & 11/2/2020 & 3:55:39 PM & 0:01:04 & 100 \\
\hline 4 & 2356 & 765 & 765 & 11/2/2020 & 3:58:28 PM & 0:02:49 & 100 \\
\hline 10 & 4281 & 766 & 766 & 11/2/2020 & 3:59:32 PM & 0:01:04 & 99 \\
\hline 4 & 2357 & 767 & 767 & 11/2/2020 & 4:02:37 PM & 0:03:05 & 100 \\
\hline 10 & 4282 & 768 & 768 & 11/2/2020 & 4:02:41 PM & 0:00:04 & 100 \\
\hline 10 & 4283 & 769 & 769 & 11/2/2020 & 4:05:30 PM & 0:02:50 & 98 \\
\hline 4 & 2358 & 770 & 770 & 11/2/2020 & 4:06:34 PM & 0:01:04 & 100 \\
\hline 10 & 4284 & 771 & 771 & 11/2/2020 & 4:12:27 PM & 0:05:52 & 100 \\
\hline 10 & 4285 & 772 & 772 & 11/2/2020 & 4:14:31 PM & 0:02:04 & 100 \\
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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 10 & 4286 & 773 & 773 & 11/2/2020 & 4:19:37 PM & 0:05:06 & 100 \\
\hline 7 & 3068 & 774 & 774 & 11/2/2020 & 4:21:26 PM & 0:01:49 & 98 \\
\hline 10 & 4287 & 775 & 775 & 11/2/2020 & 4:22:30 PM & 0:01:04 & 100 \\
\hline 10 & 4288 & 776 & 776 & 11/2/2020 & 4:25:35 PM & 0:03:05 & 100 \\
\hline 7 & 3069 & 777 & 777 & 11/2/2020 & 4:27:25 PM & 0:01:50 & 99 \\
\hline 7 & 3070 & 778 & 778 & 11/2/2020 & 4:32:30 PM & 0:05:05 & 100 \\
\hline 7 & 3071 & 779 & 779 & 11/2/2020 & 4:42:36 PM & 0:10:06 & 86 \\
\hline 7 & 3072 & 780 & 780 & 11/2/2020 & 5:06:30 PM & 0:23:54 & 60 \\
\hline 2 & 1063 & 781 & 781 & 11/3/2020 & 1:58:38 PM & & 100 \\
\hline 2 & 1064 & 782 & 782 & 11/3/2020 & 2:01:42 PM & 0:03:05 & 100 \\
\hline 2 & 1065 & 783 & 783 & 11/3/2020 & 2:07:33 PM & 0:05:50 & 63 \\
\hline 2 & 1066 & 784 & 784 & 11/3/2020 & 2:08:35 PM & 0:01:03 & 61 \\
\hline 2 & 1067 & 785 & 785 & 11/3/2020 & 2:12:39 PM & 0:04:03 & 62 \\
\hline 2 & 1068 & 786 & 786 & 11/3/2020 & 2:14:42 PM & 0:02:03 & 69 \\
\hline 2 & 1069 & 787 & 787 & 11/3/2020 & 2:19:45 PM & 0:05:04 & 62 \\
\hline 10 & 4289 & 788 & 788 & 11/3/2020 & 2:24:49 PM & 0:05:04 & 86 \\
\hline 2 & 1070 & 789 & 789 & 11/3/2020 & 2:26:38 PM & 0:01:49 & 73 \\
\hline 10 & 4290 & 790 & 790 & 11/3/2020 & 2:26:41 PM & 0:00:03 & 100 \\
\hline 2 & 1071 & 791 & 791 & 11/3/2020 & 2:28:45 PM & 0:02:04 & 74 \\
\hline 2 & 1072 & 792 & 792 & 11/3/2020 & 2:29:34 PM & 0:00:49 & 78 \\
\hline 10 & 4291 & 793 & 793 & 11/3/2020 & 2:29:52 PM & 0:00:18 & 99 \\
\hline 2 & 1073 & 794 & 794 & 11/3/2020 & 2:31:42 PM & 0:01:49 & 79 \\
\hline 10 & 4292 & 795 & 795 & 11/3/2020 & 2:32:45 PM & 0:01:03 & 100 \\
\hline 2 & 1074 & 796 & 796 & 11/3/2020 & 2:34:34 PM & 0:01:49 & 40 \\
\hline 10 & 4293 & 797 & 797 & 11/3/2020 & 2:35:36 PM & 0:01:02 & 100 \\
\hline 10 & 4294 & 798 & 798 & 11/3/2020 & 2:37:41 PM & 0:02:04 & 100 \\
\hline 2 & 1075 & 799 & 799 & 11/3/2020 & 2:40:45 PM & 0:03:04 & 45 \\
\hline 10 & 4295 & 800 & 800 & 11/3/2020 & 2:42:48 PM & 0:02:03 & 97 \\
\hline 10 & 4296 & 801 & 801 & 11/3/2020 & 2:44:37 PM & 0:01:49 & 100 \\
\hline 2 & 1076 & 802 & 802 & 11/3/2020 & 2:46:41 PM & 0:02:04 & 86 \\
\hline 2 & 1077 & 803 & 803 & 11/3/2020 & 2:48:45 PM & 0:02:04 & 76 \\
\hline 2 & 1078 & 804 & 804 & 11/3/2020 & 2:54:34 PM & 0:05:49 & 61 \\
\hline 10 & 4297 & 805 & 805 & 11/3/2020 & 2:57:38 PM & 0:03:03 & 99 \\
\hline 2 & 1079 & 806 & 806 & 11/3/2020 & 2:58:42 PM & 0:01:04 & 72 \\
\hline 2 & 1080 & 807 & 807 & 11/3/2020 & 3:00:45 PM & 0:02:03 & 81 \\
\hline 10 & 4298 & 808 & 808 & 11/3/2020 & 3:01:36 PM & 0:00:51 & 100 \\
\hline 2 & 1081 & 809 & 809 & 11/3/2020 & 3:02:40 PM & 0:01:04 & 59 \\
\hline 10 & 4299 & 810 & 810 & 11/3/2020 & 3:04:43 PM & 0:02:03 & 100 \\
\hline 10 & 4300 & 811 & 811 & 11/3/2020 & 3:07:48 PM & 0:03:05 & 100 \\
\hline 10 & 4301 & 812 & 812 & 11/3/2020 & 3:10:37 PM & 0:02:49 & 100 \\
\hline 7 & 3073 & 813 & 813 & 11/3/2020 & 3:11:41 PM & 0:01:04 & 100 \\
\hline 10 & 4302 & 814 & 814 & 11/3/2020 & 3:13:46 PM & 0:02:04 & 99 \\
\hline 7 & 3074 & 815 & 815 & 11/3/2020 & 3:14:35 PM & 0:00:49 & 99 \\
\hline 10 & 4303 & 816 & 816 & 11/3/2020 & 3:16:39 PM & 0:02:04 & 100 \\
\hline 7 & 3075 & 817 & 817 & 11/3/2020 & 3:17:43 PM & 0:01:04 & 100 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 10 & 4304 & 818 & 818 & 11/3/2020 & 3:18:48 PM & 0:01:04 & 100 \\
\hline 7 & 3076 & 819 & 819 & 11/3/2020 & 3:20:37 PM & 0:01:49 & 100 \\
\hline 10 & 4305 & 820 & 820 & 11/3/2020 & 3:21:42 PM & 0:01:05 & 100 \\
\hline 7 & 3077 & 821 & 821 & 11/3/2020 & 3:23:47 PM & 0:02:05 & 100 \\
\hline 10 & 4306 & 822 & 822 & 11/3/2020 & 3:24:36 PM & 0:00:49 & 100 \\
\hline 10 & 4307 & 823 & 823 & 11/3/2020 & 3:26:40 PM & 0:02:04 & 100 \\
\hline 7 & 3078 & 824 & 824 & 11/3/2020 & 3:27:45 PM & 0:01:04 & 99 \\
\hline 10 & 4308 & 825 & 825 & 11/3/2020 & 3:30:36 PM & 0:02:51 & 99 \\
\hline 7 & 3079 & 826 & 826 & 11/3/2020 & 3:32:40 PM & 0:02:04 & 100 \\
\hline 10 & 4309 & 827 & 827 & 11/3/2020 & 3:33:44 PM & 0:01:04 & 100 \\
\hline 7 & 3080 & 828 & 828 & 11/3/2020 & 3:35:48 PM & 0:02:04 & 100 \\
\hline 7 & 3081 & 829 & 829 & 11/3/2020 & 3:41:38 PM & 0:05:50 & 98 \\
\hline 10 & 4310 & 830 & 830 & 11/3/2020 & 3:41:42 PM & 0:00:04 & 100 \\
\hline 7 & 3082 & 831 & 831 & 11/3/2020 & 3:45:47 PM & 0:04:05 & 100 \\
\hline 10 & 4311 & 832 & 832 & 11/3/2020 & 3:47:37 PM & 0:01:50 & 98 \\
\hline 7 & 3083 & 833 & 833 & 11/3/2020 & 3:49:41 PM & 0:02:04 & 100 \\
\hline 10 & 4312 & 834 & 834 & 11/3/2020 & 3:50:45 PM & 0:01:04 & 100 \\
\hline 10 & 4313 & 835 & 835 & 11/3/2020 & 3:54:35 PM & 0:03:50 & 100 \\
\hline 7 & 3084 & 836 & 836 & 11/3/2020 & 3:55:39 PM & 0:01:04 & 100 \\
\hline 7 & 3085 & 837 & 837 & 11/3/2020 & 3:58:44 PM & 0:03:05 & 100 \\
\hline 10 & 4314 & 838 & 838 & 11/3/2020 & 3:58:48 PM & 0:00:04 & 99 \\
\hline 7 & 3086 & 839 & 839 & 11/3/2020 & 4:03:38 PM & 0:04:50 & 99 \\
\hline 10 & 4315 & 840 & 840 & 11/3/2020 & 4:03:57 PM & 0:00:19 & 99 \\
\hline 10 & 4316 & 841 & 841 & 11/3/2020 & 4:07:46 PM & 0:03:50 & 100 \\
\hline 7 & 3087 & 842 & 842 & 11/3/2020 & 4:08:36 PM & 0:00:49 & 99 \\
\hline 10 & 4317 & 843 & 843 & 11/3/2020 & 4:10:40 PM & 0:02:04 & 100 \\
\hline 10 & 4318 & 844 & 844 & 11/3/2020 & 4:12:45 PM & 0:02:05 & 100 \\
\hline 7 & 3088 & 845 & 845 & 11/3/2020 & 4:16:35 PM & 0:03:50 & 100 \\
\hline 10 & 4319 & 846 & 846 & 11/3/2020 & 4:16:53 PM & 0:00:18 & 100 \\
\hline 10 & 4320 & 847 & 847 & 11/3/2020 & 4:19:43 PM & 0:02:49 & 100 \\
\hline 7 & 3089 & 848 & 848 & 11/3/2020 & 4:21:49 PM & 0:02:06 & 100 \\
\hline 10 & 4321 & 849 & 849 & 11/3/2020 & 4:22:40 PM & 0:00:52 & 100 \\
\hline 7 & 3090 & 850 & 850 & 11/3/2020 & 4:25:45 PM & 0:03:05 & 97 \\
\hline 7 & 3091 & 851 & 851 & 11/3/2020 & 4:28:37 PM & 0:02:52 & 100 \\
\hline 7 & 3092 & 852 & 852 & 11/3/2020 & 4:34:43 PM & 0:06:05 & 95 \\
\hline 10 & 4322 & 853 & 853 & 11/3/2020 & 4:37:47 PM & 0:03:04 & 99 \\
\hline 7 & 3093 & 854 & 854 & 11/3/2020 & 4:38:36 PM & 0:00:49 & 100 \\
\hline 7 & 3094 & 855 & 855 & 11/3/2020 & 5:11:47 PM & 0:33:11 & 100 \\
\hline 7 & 3095 & 856 & 856 & 11/3/2020 & 5:14:37 PM & 0:02:50 & 100 \\
\hline 10 & 4323 & 857 & 857 & 11/3/2020 & 5:44:47 PM & 0:30:10 & 100 \\
\hline 10 & 4324 & 858 & 858 & 11/3/2020 & 5:47:37 PM & 0:02:50 & 100 \\
\hline 10 & 4325 & 859 & 859 & 11/3/2020 & 5:55:43 PM & 0:08:06 & 100 \\
\hline 10 & 4326 & 860 & 860 & 11/3/2020 & 6:01:49 PM & 0:06:06 & 100 \\
\hline 7 & 3096 & 861 & 861 & 11/3/2020 & 6:11:40 PM & 0:09:51 & 20 \\
\hline 10 & 4327 & 862 & 862 & 11/3/2020 & 6:11:41 PM & 0:00:01 & 86 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 7 & 3097 & 863 & 863 & 11/3/2020 & 6:48:53 PM & 0:37:12 & 100 \\
\hline 7 & 3098 & 864 & 864 & 11/3/2020 & 6:51:42 PM & 0:02:50 & 100 \\
\hline 7 & 3099 & 865 & 865 & 11/3/2020 & 7:19:52 PM & 0:28:10 & 100 \\
\hline 10 & 4328 & 866 & 866 & 11/3/2020 & 7:20:41 PM & 0:00:49 & 100 \\
\hline 7 & 3100 & 867 & 867 & 11/3/2020 & 7:24:46 PM & 0:04:05 & 100 \\
\hline 10 & 4329 & 868 & 868 & 11/3/2020 & 7:25:37 PM & 0:00:51 & 100 \\
\hline 7 & 3101 & 869 & 869 & 11/3/2020 & 7:27:42 PM & 0:02:05 & 98 \\
\hline 10 & 4330 & 870 & 870 & 11/3/2020 & 7:34:48 PM & 0:07:05 & 100 \\
\hline 7 & 3102 & 871 & 871 & 11/3/2020 & 7:35:37 PM & 0:00:49 & 100 \\
\hline 10 & 4331 & 872 & 872 & 11/3/2020 & 7:49:44 PM & 0:14:07 & 99 \\
\hline 7 & 3103 & 873 & 873 & 11/3/2020 & 7:50:48 PM & 0:01:05 & 98 \\
\hline 10 & 4332 & 874 & 874 & 11/3/2020 & 8:05:41 PM & 0:14:52 & 100 \\
\hline 10 & 4333 & 875 & 875 & 11/3/2020 & 8:09:46 PM & 0:04:05 & 99 \\
\hline 2 & 1082 & 876 & 876 & 11/3/2020 & 8:16:36 PM & 0:06:51 & 100 \\
\hline 2 & 1083 & 877 & 877 & 11/3/2020 & 8:17:41 PM & 0:01:04 & 81 \\
\hline 2 & 1084 & 878 & 878 & 11/3/2020 & 8:19:44 PM & 0:02:04 & 81 \\
\hline 10 & 4334 & 879 & 879 & 11/3/2020 & 8:23:35 PM & 0:03:51 & 100 \\
\hline 10 & 4335 & 880 & 880 & 11/3/2020 & 8:27:39 PM & 0:04:04 & 99 \\
\hline 2 & 1085 & 881 & 881 & 11/3/2020 & 8:29:43 PM & 0:02:04 & 71 \\
\hline 10 & 4336 & 882 & 882 & 11/3/2020 & 8:30:47 PM & 0:01:03 & 100 \\
\hline 2 & 1086 & 883 & 883 & 11/3/2020 & 8:31:36 PM & 0:00:49 & 78 \\
\hline 10 & 4337 & 884 & 884 & 11/3/2020 & 8:37:42 PM & 0:06:06 & 100 \\
\hline 2 & 1087 & 885 & 885 & 11/3/2020 & 8:38:46 PM & 0:01:04 & 52 \\
\hline 2 & 1088 & 886 & 886 & 11/3/2020 & 8:40:48 PM & 0:02:03 & 57 \\
\hline 10 & 4338 & 887 & 887 & 11/3/2020 & 8:40:51 PM & 0:00:03 & 99 \\
\hline 2 & 1089 & 888 & 888 & 11/3/2020 & 8:41:40 PM & 0:00:49 & 35 \\
\hline 2 & 1090 & 889 & 889 & 11/3/2020 & 8:44:42 PM & 0:03:03 & 85 \\
\hline 10 & 4339 & 890 & 890 & 11/3/2020 & 8:44:46 PM & 0:00:03 & 100 \\
\hline 2 & 1091 & 891 & 891 & 11/3/2020 & 8:46:36 PM & 0:01:50 & 84 \\
\hline 10 & 4340 & 892 & 892 & 11/3/2020 & 8:47:40 PM & 0:01:04 & 100 \\
\hline 2 & 1092 & 893 & 893 & 11/3/2020 & 8:48:44 PM & 0:01:04 & 82 \\
\hline 2 & 1093 & 894 & 894 & 11/3/2020 & 8:50:47 PM & 0:02:04 & 82 \\
\hline 10 & 4341 & 895 & 895 & 11/3/2020 & 8:50:51 PM & 0:00:03 & 100 \\
\hline 2 & 1094 & 896 & 896 & 11/3/2020 & 8:51:40 PM & 0:00:49 & 74 \\
\hline 10 & 4342 & 897 & 897 & 11/3/2020 & 8:53:43 PM & 0:02:04 & 100 \\
\hline 10 & 4343 & 898 & 898 & 11/3/2020 & 8:56:48 PM & 0:03:04 & 99 \\
\hline 2 & 1095 & 899 & 899 & 11/3/2020 & 8:58:37 PM & 0:01:49 & 83 \\
\hline 10 & 4344 & 900 & 900 & 11/3/2020 & 8:59:41 PM & 0:01:04 & 100 \\
\hline 2 & 1096 & 901 & 901 & 11/3/2020 & 9:01:45 PM & 0:02:04 & 89 \\
\hline 10 & 4345 & 902 & 902 & 11/3/2020 & 9:02:49 PM & 0:01:04 & 100 \\
\hline 10 & 4346 & 903 & 903 & 11/3/2020 & 9:08:39 PM & 0:05:50 & 97 \\
\hline 10 & 4347 & 904 & 904 & 11/3/2020 & 9:13:44 PM & 0:05:05 & 99 \\
\hline 10 & 4348 & 905 & 905 & 11/3/2020 & 9:17:48 PM & 0:04:05 & 99 \\
\hline 10 & 4349 & 906 & 906 & 11/3/2020 & 9:20:38 PM & 0:02:50 & 99 \\
\hline 7 & 3104 & 907 & 907 & 11/3/2020 & 9:24:43 PM & 0:04:05 & 99 \\
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\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
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\hline 7 & 3105 & 909 & 909 & 11/3/2020 & 9:28:37 PM & 0:00:49 & 99 \\
\hline 7 & 3106 & 910 & 910 & 11/3/2020 & 9:32:41 PM & 0:04:05 & 68 \\
\hline 10 & 4351 & 911 & 911 & 11/3/2020 & 10:13:38 PM & 0:40:57 & 55 \\
\hline 10 & 4352 & 912 & 912 & 11/3/2020 & 10:16:42 PM & 0:03:03 & 98 \\
\hline 10 & 4353 & 913 & 913 & 11/3/2020 & 10:22:47 PM & 0:06:05 & 99 \\
\hline 10 & 4354 & 914 & 914 & 11/3/2020 & 10:25:38 PM & 0:02:51 & 100 \\
\hline 10 & 4355 & 915 & 915 & 11/3/2020 & 10:28:43 PM & 0:03:05 & 100 \\
\hline 10 & 4356 & 916 & 916 & 11/3/2020 & 10:31:47 PM & 0:03:05 & 99 \\
\hline 10 & 4357 & 917 & 917 & 11/3/2020 & 10:34:38 PM & 0:02:51 & 100 \\
\hline 10 & 4358 & 918 & 918 & 11/3/2020 & 10:37:43 PM & 0:03:05 & 100 \\
\hline 10 & 4359 & 919 & 919 & 11/3/2020 & 10:40:47 PM & 0:03:05 & 100 \\
\hline 10 & 4360 & 920 & 920 & 11/3/2020 & 10:43:39 PM & 0:02:52 & 100 \\
\hline 10 & 4361 & 921 & 921 & 11/3/2020 & 10:45:44 PM & 0:02:04 & 100 \\
\hline 10 & 4362 & 922 & 922 & 11/3/2020 & 10:48:48 PM & 0:03:05 & 100 \\
\hline 2 & 1097 & 923 & 923 & 11/3/2020 & 10:50:37 PM & 0:01:49 & 99 \\
\hline 2 & 1098 & 924 & 924 & 11/3/2020 & 10:53:42 PM & 0:03:04 & 94 \\
\hline 10 & 4363 & 925 & 925 & 11/3/2020 & 10:55:46 PM & 0:02:04 & 100 \\
\hline 10 & 4364 & 926 & 926 & 11/3/2020 & 11:00:38 PM & 0:04:52 & 98 \\
\hline 10 & 4365 & 927 & 927 & 11/3/2020 & 11:03:43 PM & 0:03:04 & 100 \\
\hline 2 & 1099 & 928 & 928 & 11/3/2020 & 11:04:47 PM & 0:01:04 & 68 \\
\hline 10 & 4366 & 929 & 929 & 11/3/2020 & 11:06:51 PM & 0:02:04 & 100 \\
\hline 10 & 4367 & 930 & 930 & 11/3/2020 & 11:09:40 PM & 0:02:50 & 100 \\
\hline 2 & 1100 & 931 & 931 & 11/3/2020 & 11:10:44 PM & 0:01:04 & 77 \\
\hline 10 & 4368 & 932 & 932 & 11/3/2020 & 11:11:48 PM & 0:01:03 & 100 \\
\hline 2 & 1101 & 933 & 933 & 11/3/2020 & 11:15:37 PM & 0:03:50 & 88 \\
\hline 10 & 4369 & 934 & 934 & 11/3/2020 & 11:15:56 PM & 0:00:19 & 100 \\
\hline 10 & 4370 & 935 & 935 & 11/3/2020 & 11:18:45 PM & 0:02:50 & 100 \\
\hline 2 & 1102 & 936 & 936 & 11/3/2020 & 11:19:50 PM & 0:01:04 & 99 \\
\hline 10 & 4371 & 937 & 937 & 11/3/2020 & 11:20:39 PM & 0:00:49 & 100 \\
\hline 2 & 1103 & 938 & 938 & 11/3/2020 & 11:21:43 PM & 0:01:04 & 65 \\
\hline 2 & 1104 & 939 & 939 & 11/3/2020 & 11:22:45 PM & 0:01:03 & 37 \\
\hline 2 & 1105 & 940 & 940 & 11/3/2020 & 11:27:48 PM & 0:05:03 & 95 \\
\hline 2 & 1106 & 941 & 941 & 11/3/2020 & 11:28:37 PM & 0:00:49 & 95 \\
\hline 7 & 3107 & 942 & 942 & 11/3/2020 & 11:37:42 PM & 0:09:05 & 66 \\
\hline 2 & 1107 & 943 & 943 & 11/10/2020 & 12:58:43 PM & & 87 \\
\hline 2 & 1108 & 944 & 944 & 11/10/2020 & 1:01:32 PM & 0:02:49 & 81 \\
\hline 2 & 1109 & 945 & 945 & 11/10/2020 & 1:03:36 PM & 0:02:04 & 69 \\
\hline 2 & 1110 & 946 & 946 & 11/10/2020 & 1:08:40 PM & 0:05:04 & 98 \\
\hline 2 & 1111 & 947 & 947 & 11/10/2020 & 1:15:45 PM & 0:07:05 & 97 \\
\hline 2 & 1112 & 948 & 948 & 11/10/2020 & 1:27:36 PM & 0:11:51 & 95 \\
\hline 2 & 1113 & 949 & 949 & 11/10/2020 & 1:28:40 PM & 0:01:04 & 68 \\
\hline 2 & 1114 & 950 & 950 & 11/10/2020 & 1:30:43 PM & 0:02:03 & 81 \\
\hline 2 & 1115 & 951 & 951 & 11/10/2020 & 1:37:33 PM & 0:06:50 & 85 \\
\hline 2 & 1116 & 952 & 952 & 11/10/2020 & 1:40:37 PM & 0:03:04 & 81 \\
\hline
\end{tabular}

Page \(\mathbf{5 8}\) of \(\mathbf{8 8}\)
\begin{tabular}{|cccccccc|}
\hline 2 & 1117 & 953 & 953 & \(11 / 10 / 2020\) & \(1: 42: 41 \mathrm{PM}\) & \(0: 02: 04\) & 95 \\
2 & 1118 & 954 & 954 & \(11 / 10 / 2020\) & \(1: 44: 31 \mathrm{PM}\) & \(0: 01: 50\) & 94 \\
2 & 1119 & 955 & 955 & \(11 / 10 / 2020\) & \(1: 54: 37 \mathrm{PM}\) & \(0: 10: 06\) & 98 \\
2 & 1120 & 956 & 956 & \(11 / 10 / 2020\) & \(1: 56: 41 \mathrm{PM}\) & \(0: 02: 04\) & 87 \\
2 & 1121 & 957 & 957 & \(11 / 10 / 2020\) & \(1: 58: 31 \mathrm{PM}\) & \(0: 01: 50\) & 83 \\
2 & 1122 & 958 & 958 & \(11 / 10 / 2020\) & \(2: 01: 35 \mathrm{PM}\) & \(0: 03: 04\) & 85 \\
2 & 1123 & 959 & 959 & \(11 / 10 / 2020\) & \(2: 02: 39 \mathrm{PM}\) & \(0: 01: 03\) & 68 \\
7 & 3108 & 960 & 960 & \(11 / 10 / 2020\) & \(2: 13: 44 \mathrm{PM}\) & \(0: 11: 05\) & 97 \\
7 & 3109 & 961 & 961 & \(11 / 10 / 2020\) & \(2: 21: 34 \mathrm{PM}\) & \(0: 07: 51\) & 99 \\
7 & 3110 & 962 & 962 & \(11 / 10 / 2020\) & \(2: 24: 39 \mathrm{PM}\) & \(0: 03: 04\) & 100 \\
7 & 3111 & 963 & 963 & \(11 / 10 / 2020\) & \(2: 33: 45 \mathrm{PM}\) & \(0: 09: 06\) & 99 \\
7 & 3112 & 964 & 964 & \(11 / 10 / 2020\) & \(2: 39: 35 \mathrm{PM}\) & \(0: 05: 50\) & 90 \\
7 & 3113 & 965 & 965 & \(11 / 10 / 2020\) & \(2: 45: 40 \mathrm{PM}\) & \(0: 06: 05\) & 92 \\
7 & 3114 & 966 & 966 & \(11 / 10 / 2020\) & \(3: 43: 41 \mathrm{PM}\) & \(0: 58: 01\) & 82 \\
2 & 1124 & 967 & 969 & \(11 / 13 / 2020\) & \(11: 38: 15 \mathrm{AM}\) & & 59 \\
7 & 3115 & 968 & 970 & \(11 / 13 / 2020\) & \(11: 38: 17 \mathrm{AM}\) & \(0: 00: 02\) & 21 \\
7 & 3116 & 969 & 971 & \(11 / 13 / 2020\) & \(11: 38: 18 \mathrm{AM}\) & \(0: 00: 01\) & 2 \\
7 & 3117 & 970 & 972 & \(11 / 13 / 2020\) & \(11: 38: 18 \mathrm{AM}\) & \(0: 00: 00\) & 23 \\
7 & 3118 & 971 & 973 & \(11 / 13 / 2020\) & \(12: 59: 07 \mathrm{PM}\) & \(1: 20: 49\) & 40 \\
2 & 1125 & 972 & 976 & \(11 / 20 / 2020\) & \(11: 47: 01 \mathrm{AM}\) & & 12 \\
7 & 3119 & 973 & 977 & \(11 / 20 / 2020\) & \(11: 53: 03 \mathrm{AM}\) & \(0: 06: 02\) & 21 \\
\hline
\end{tabular}

\section*{APPENDIX C - LOG ENTRIES FROM EMS USER LOG - OCTOBER 2020}
\begin{tabular}{|c|c|}
\hline Date and Time & Commands / Comments in red \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:18:01 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 1250ms): Batch 227 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 18: 02
\end{aligned}
\] & SubmitBatchCommand (execution duration: 1156 ms ) : Batch 226 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 18: 03
\end{aligned}
\] & SubmitBatchCommand (execution duration: 1297ms): Batch 228 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:18:05 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 906ms): Batch 229 - Successfully synchronized results. \\
\hline & The above four commands are the last 4 batches adjudicated and written back to the database before the database copy. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 18: 14
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 267). \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 18: 33 \\
& \hline
\end{aligned}
\] & LoadResultsCommand (execution duration: 2688ms): Result file '1_1_7_3037_DETAIL.DVD' was loaded successfully. \\
\hline & The above two statements are the Adjudication Module checking for new Batches, and then loading the DVD file from the NAS for the new one it encountered. \\
\hline & Note that this batch never made it to the old Adjudication database, it eventually made it to the new one. We are at this point 18 seconds from the database copy. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:18:39 }
\end{aligned}
\] & GetAdjudicationSupportStatusCommand (execution duration: 16ms): Adjudication status retrieved (Adjudication is enabled) \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 18: 52
\end{aligned}
\] & GetAdjudicationSupportStatusCommand (execution duration: Oms): Adjudication status retrieved (Adjudication is enabled) \\
\hline & This is the only time that this command is seen in the log during the election period, and they happened 12 seconds BEFORE the copy and then again 1 second after. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:18:57 }
\end{aligned}
\] & GetRelevantOutstackConditionsCommand (execution duration: 31ms): Successfully retrieved relevant outstack conditions \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:19:26 }
\end{aligned}
\] & GetRelevantOutstackConditionsCommand (execution duration: Oms): Successfully retrieved relevant outstack conditions \\
\hline & Again, the only time this command is seen, and to me it seems that it involves the new database trying to figure out the current adjudication status \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 20: 06
\end{aligned}
\] & GetBatchesCommand (execution duration: 1156 ms ): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 0). Values of CvrSortOrder field for delivered batches are: 1 \\
\hline & This is the Adjudication Module looking for new batches on the NAS drive. As there are currently no batches (the new database was created with no records), it is looking for anything >0 \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 20: 07
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219 ms ): Cast vote records for batch '1' successfully retrieved. \\
\hline & 1 Batch was found and retrieved \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:25 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 47ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 1). Values of CvrSortOrder field for delivered batches are: 60, 61, 62, 63, 64, 65, 66, 67, \(68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98\), \(99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121\), \(122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144\), \(145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167\), \(168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190\), 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268 \\
\hline & Now the Adjudication module checks for new batches again. Note that the 1st time it found only one, now it finds ALL the rest from 60-267 (no sign of 2-59) \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 20: 26
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '60' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 20: 30 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '61' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 60 of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '62' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:38 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '63' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:43 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '64' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '65' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:51 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 406 ms ): Cast vote records for batch '66' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 20: 55
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '67' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:20:59 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '68' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline \text { 10/21/2020 } \\
& \text { 14:21:04 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '69' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 21: 08
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '70' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:12 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '71' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:16 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '72' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:20 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '73' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:24 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '74' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:28 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '75' successfully retrieved. \\
\hline & The above log entries are the reloading of the batches 60-75 \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 21: 29
\end{aligned}
\] & GetCastVoteRecordImageCommand (execution duration: Oms): Image for tabulator '10, batch '4001' and session '18' successfully retrieved. \\
\hline & The Adjudication Module begins processing ballots needing adjudication (4001 = batch 1) \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '76' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 21: 37
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '77' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:44 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '78' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:48 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '79' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:21:52 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 375ms): Cast vote records for batch '80' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 21: 56
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '81' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:00 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '82' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:04 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '83' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:09 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '84' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:13 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '85' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:17 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '86' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:21 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '87' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:25 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '88' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page \(\mathbf{6 1}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 22: 29
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '89' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '90' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 22: 37
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '91' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:41 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '92' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:46 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '93' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:50 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '94' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:54 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '95' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:22:58 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '96' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:02 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '97' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 23: 06
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '98' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:10 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '99' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 23: 14
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '100' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '101' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 23: 23
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '102' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 23: 27
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '103' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:31 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '104' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:37 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '105' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 23: 41
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '106' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:45 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '107' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:49 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '108' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:23:53 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '109' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 23: 57
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '110' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '111' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 24: 06
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '112' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:10 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '113' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:13 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '114' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '115' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 24: 22
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '116' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:26 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '117' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 62 of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \hline \text { 10/21/2020 } \\
& \text { 14:24:30 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: \(234 \mathrm{ms)}\) : Cast vote records for batch '118' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:35 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '119' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:39 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '120' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 24: 43
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '121' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '122' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:51 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '123' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:24:55 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '124' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 25: 00
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '125' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:04 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '126' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 25: 08
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '127' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:12 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '128' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:16 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '129' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 25: 20
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '130' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:25 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '131' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:30 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '132' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '133' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:38 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '134' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 25: 42
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '135' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '136' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:25:52 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '137' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 25: 57
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '138' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '139' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:05 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '140' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:09 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '141' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:13 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '142' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:17 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '143' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:21 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '144' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:25 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '145' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 26: 29
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '146' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page \(\mathbf{6 3}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: \(219 \mathrm{ms)}\) : Cast vote records for batch '147' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:37 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '148' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:41 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '149' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 26: 45
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '150' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:26:49 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '151' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 26: 52
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '152' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 26: 57
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '153' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '154' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:05 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '155' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 27: 10
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '156' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:14 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '157' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '158' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:21 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '159' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:26 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '160' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 27: 30
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '161' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '162' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:38 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '163' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:42 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '164' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:46 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '165' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:50 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '166' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:27:56 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '167' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 28: 01
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '168' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 05
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '169' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 10
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '170' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:13 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '171' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 28: 18
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '172' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:22 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '173' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 25
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '174' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:30 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '175' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page \(\mathbf{6 4}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \hline \text { 10/21/2020 } \\
& \text { 14:28:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '176' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:38 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '177' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 42
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '178' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 46
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '179' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:50 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 313ms): Cast vote records for batch '180' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 28: 54
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '181' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:28:58 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '182' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 29: 02
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '183' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:06 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '184' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:10 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '185' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:14 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '186' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 172ms): Cast vote records for batch '187' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 29: 22
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 438ms): Cast vote records for batch '188' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:26 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '189' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:30 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '190' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '191' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:38 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '192' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 29: 43
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '193' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '194' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:29:52 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '195' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 29: 56
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '196' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 30: 00
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297 ms ): Cast vote records for batch '197' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 30: 04
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '198' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 30: 08
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 62ms): Cast vote records for batch '199' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 30: 09
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 203ms): Cast vote records for batch '200' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 30: 13
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 203ms): Cast vote records for batch '201' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 30: 17
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '202' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:21 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '203' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 30: 25
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '204' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 65 of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:29 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '205' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '206' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:37 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '207' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:41 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 313ms): Cast vote records for batch '208' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:45 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 313ms): Cast vote records for batch '209' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:50 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '210' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:30:54 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '211' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 30: 58
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '212' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 31: 02 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '213' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:06 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 187ms): Cast vote records for batch '214' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 31: 09
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '215' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:11 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '216' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:14 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 47ms): Cast vote records for batch '217' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 31: 15
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '218' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 31: 19 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '219' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:23 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ) : Cast vote records for batch '220' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 31: 27
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '221' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:31 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '222' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 31: 35
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '223' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:31:40 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '224' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 31: 44
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '225' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 31: 48
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ) : Cast vote records for batch '226' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 31: 52
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266 ms ): Cast vote records for batch '227' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 31: 56
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ) : Cast vote records for batch '228' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:32:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '229' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 32: 05
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '230' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 32: 09 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '231' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline \text { 10/21/2020 } \\
& \text { 14:32:14 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '232' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:32:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '233' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page \(\mathbf{6 6}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 32: 23
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '234' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 32: 27
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '235' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:32:31 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '236' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:32:36 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '237' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 32: 40
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 250 ms ): Cast vote records for batch '238' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 32: 44
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '239' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:32:48 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '240' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 32: 52
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '241' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 32: 57
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 313ms): Cast vote records for batch '242' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:33:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '243' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:33:06 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '244' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 10
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '245' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 33: 14
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '246' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 18
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '247' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 22
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '248' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 33: 26
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '249' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 31 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '250' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:33:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '251' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 38
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '252' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& 14: 33: 43
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '253' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 47
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '254' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:33:51 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '255' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 33: 55 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '256' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:33:59 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '257' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 34: 03
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 141ms): Cast vote records for batch '258' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 34: 05
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '259' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 34: 10 \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '260' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 34: 13
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '261' successfully retrieved. \\
\hline \[
\begin{aligned}
& 10 / 21 / 2020 \\
& 14: 34: 17
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '262' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 67 of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \hline \text { 10/21/2020 } \\
& \text { 14:34:21 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '263' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:34:25 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '264' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:34:30 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '265' successfully retrieved. \\
\hline & The reload is almost complete \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:34:33 }
\end{aligned}
\] & GetCastVoteRecordImageCommand (execution duration: 16ms): Image for tabulator '10, batch '4001' and session '25' successfully retrieved. \\
\hline & A second ballot from batch 1 goes to adjudication \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:34:34 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '266' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 10/21/2020 } \\
& \text { 14:34:38 } \\
& \hline
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '267' successfully retrieved. \\
\hline & At this point we have reloaded all of the batches from the original database. Time elapsed since copy event: 11 minutes, 47 seconds \\
\hline & This is 3 seconds (on average) per copied batch, . 03 seconds (on average) per ballot. \\
\hline \[
\begin{aligned}
& \hline 10 / 21 / 2020 \\
& 14: 34: 42
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 234 ms ): Cast vote records for batch '268' successfully retrieved. \\
\hline & This is the system actually loading up batch 3037, the last one that was saved before the database copy. (See line 7 above) \\
\hline & At this point all but 58 batches and their ballots from the original Adjudication database are now copied to the new database \\
\hline
\end{tabular}

\section*{Page \(\mathbf{6 8}\) of \(\mathbf{8 8}\)}

\section*{APPENDIX D - LOG ENTRIES FROM EMS USER LOG - MARCH 2021}
\begin{tabular}{|c|c|}
\hline Date and Time & Command / Comment \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:57:16 }
\end{aligned}
\] & GetCastVoteRecordImageCommand (execution duration: 16ms): Image for tabulator '30, batch '3044' and session '72' successfully retrieved. \\
\hline & Adjudication Module requesting an image so that it can be adjudicated \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:57:17 }
\end{aligned}
\] & GetBatchesCommand (execution duration: Oms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:57:32 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:57:47 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:58:02 }
\end{aligned}
\] & GetBatchesCommand (execution duration: Oms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline & Normal checks for new batches. We are 54 seconds from database copy event \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:58:41 }
\end{aligned}
\] & GetAdjudicationSupportStatusCommand (execution duration: 16ms): Adjudication status retrieved (Adjudication is enabled) \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& 14: 58: 57
\end{aligned}
\] & GetAdjudicationSupportStatusCommand (execution duration: 16ms): Adjudication status retrieved (Adjudication is enabled) \\
\hline & Like in the November 2020 election these two commands appear right before and right after the copy event. \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& 14: 58: 59
\end{aligned}
\] & GetRelevantOutstackConditionsCommand (execution duration: 47ms): Successfully retrieved relevant outstack conditions \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:59:15 }
\end{aligned}
\] & GetRelevantOutstackConditionsCommand (execution duration: Oms): Successfully retrieved relevant outstack conditions \\
\hline & These two commands also were found just after the database copy event \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:59:52 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 156 ms ): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 0). Values of CvrSortOrder field for delivered batches are: 45, 46 \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:59:52 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 406ms): Cast vote records for batch '46' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 14:59:56 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '47' successfully retrieved. \\
\hline & The select batches from the original Adjudication database begin being encountered, although like November 2020, not all at once. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:14 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 46). Values of CvrSortOrder field for delivered batches are: 48, 49 \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:14 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '49' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:18 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '50' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 69 of 88}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:36 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 31ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 49). Values of CvrSortOrder field for delivered batches are: 51, 52, 53, 54, 55, \(56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83\), 84, 85, 86, 87, 88 \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:36 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '52' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:40 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '53' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:43 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '54' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '55' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:51 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '56' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:54 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '57' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:00:58 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '58' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline \text { 03/30/2021 } \\
& \text { 15:01:01 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 125ms): Cast vote records for batch '59' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:05 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '60' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:08 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '61' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:11 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '62' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:15 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '63' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& \text { 15:01:19 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 125ms): Cast vote records for batch '64' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:22 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '65' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:25 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '66' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:29 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '67' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '68' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:36 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '69' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:40 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '70' successfully retrieved. \\
\hline
\end{tabular}

\section*{Page 70 of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:44 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '71' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:48 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '72' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:51 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '73' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:55 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '74' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:01:59 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '75' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:02 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '76' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:06 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '77' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:09 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '78' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:12 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '79' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline \text { 03/30/2021 } \\
& \text { 15:02:16 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 63ms): Cast vote records for batch '80' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:19 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '81' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:22 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '82' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:26 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94 ms ): Cast vote records for batch '83' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:29 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '84' successfully retrieved. \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& \text { 15:02:33 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 109 ms ): Cast vote records for batch '85' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:37 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '86' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:40 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '87' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:44 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 94 ms ): Cast vote records for batch ' 88 ' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:02:47 }
\end{aligned}
\] & GetCastVoteRecordsCommand (execution duration: 47ms): Cast vote records for batch '89' successfully retrieved. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:04 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline
\end{tabular}

\section*{Page \(\mathbf{7 1}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:19 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 203ms): Batch 63 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:19 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:19 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 141ms): Batch 59 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:20 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 125ms): Batch 61 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:20 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 78 ms ): Batch 62 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:20 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 78ms): Batch 64-Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:20 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 62ms): Batch 65-Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 109ms): Batch 67 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 78ms): Batch 68-Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 62ms): Batch 69-Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 94ms): Batch 70 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 62ms): Batch 71 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& 15: 03: 22
\end{aligned}
\] & SubmitBatchCommand (execution duration: 63ms): Batch 72 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:22 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 62ms): Batch 74 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:22 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 78ms): Batch 56-Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:34 }
\end{aligned}
\] & GetBatchesCommand (execution duration: Oms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:40 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 188ms): Batch 75 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:48 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 172ms): Batch 79 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:48 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 125ms): Batch 77 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:48 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 109ms): Batch 78 - Successfully synchronized results. \\
\hline
\end{tabular}

\section*{Page \(\mathbf{7 2}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|}
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:03:49 }
\end{aligned}
\] & GetBatchesCommand (execution duration: Oms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \hline 03 / 30 / 2021 \\
& \text { 15:03:51 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 125ms): Batch 80 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:04 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16 ms ): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:14 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 203ms): Batch 82 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:18 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 156ms): Batch 84 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:19 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 125ms): Batch 83 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:19 }
\end{aligned}
\] & GetBatchesCommand (execution duration: Oms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:21 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 156ms): Batch 85 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:34 }
\end{aligned}
\] & GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88). \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:48 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 109ms): Batch 89 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:49 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 141ms): Batch 87 - Successfully synchronized results. \\
\hline \[
\begin{aligned}
& \text { 03/30/2021 } \\
& \text { 15:04:49 }
\end{aligned}
\] & SubmitBatchCommand (execution duration: 156ms): Batch 88 - Successfully synchronized results. \\
\hline & Like November 2020, the rest of the batches from the original Adjudication database are copied and reprocessed. \\
\hline & The order, however, is not the same, and there is a referenced to a batch 89 which does not have a record in either Adjudication database. \\
\hline
\end{tabular}

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\section*{REFERENCE A - DATABASES AND TABLES}

In order to assist other researchers, who may wish to examine these findings or perform additional analysis, here are the most important databases and tables which were used in this analysis.

\section*{Main election databases:}

November 2020 General Election:
[2020 Mesa County General-2020-09-05-00-10-20]
MD5 File Hash: a0d14c37dc7a596e0687351314e0c363

April 2021 Municipal Election:
[City of Grand Junction Municipal Election 2021-2021-02-05-16-01-32]
MD5 File Hash: 6a11b07b6c03e45aa66da599d76a37e1
Primary Tables (specifically related to vote totals):
ResultContainer: (Batch level raw vote data)
ResultSplitter: (Vote Data by Polling Location
ChoiceResult: (Raw aggregated vote data)
CastVoteRecord: (Raw per-ballot list)
Choice: (All Candidates/Choices)
Contest: (All contests in Election)
Tabulator: (All defined tabulators)

\section*{Stored Procedures (useful for checking final results):}

GetContestResults: Displays current results of any or all contests
GetContestStatistics: Displays stats for any or all contests, including undervotes and overvotes

\section*{Adjudication databases:}

November 2020 General Election:
[AdjudicableBallotStore_2020_Mesa_County_General_2020-10-01_12:18:50] (before copy)
MD5 File Hash: 56c292e893clea2782718b7c56d90bd9
[AdjudicableBallotStore_2020_Mesa_County_General_2020-10-21_14:18:51] (after copy)

MD5 Hash: 9c46e48519c88cc4becf519cc3fa9649

April 2021 Municipal Election:
[AdjudicableBallotStore_City_Of_Grand_Junction_Municipal_Election_2021_2021-0318_10:48:14] (before copy)
MD5 Hash: 901c5945f2abde8101716175a7827000
[AdjudicableBallotStore_City_Of_Grand_Junction_Municipal_Election_2021_2021-0330_14:58:56] (after copy)
MD5 Hash: 7937423c28f0741d7a9540810783b0c4a2629dc4

\section*{Primary Tables:}

Batches: Raw batch information
SerializedAdjudicableBallots: Contains one data record for each ballot received.
BallotStatusEvents: Every ballot with Adjudication status. New records for same ballot whenever any change occurs in the status of the ballot.

\section*{REFERENCE B - SCANNER SPEED}

\subsection*{4.5 Processing Rate}

The central scanning device's processing rate also depends on the handling and poll verification activities.

The number of ballots per minute depends on the width or length of the ballot. The following table documents the approximate scanning speed of the ICC scanners.
\begin{tabular}{|l|l|l|}
\hline Scanner & Ballot Size & Pages per Minute (ppm) Scanned \\
\hline Canon DR-G1130 & \(8.5 " \times 11 "\) & \begin{tabular}{l} 
Approximately 100 ppm, as per Dominion \\
Voting's Quality Assurance test results.
\end{tabular} \\
\hline Canon DR-G2140 & \(8.5 " \times \mathbf{2 2 "}\) & \begin{tabular}{l} 
Aproximately 70 ppm, as per Dominion \\
Voting's Quality Assurance test results.
\end{tabular} \\
\hline Canon DR-M160II & \(8.5 " \times 11 "\) & \begin{tabular}{l} 
Approximately 60 ppm, as per Dominion \\
Voting's Quality Assurance test results.
\end{tabular} \\
\hline
\end{tabular}
https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/2-03-ICC-FunctionalityDescription-5-11-CO.pdf

\section*{REFERENCE C - SCANNERS USED BY MESA COUNTY}
\begin{tabular}{|c|c|c|c|}
\hline DESCRIPTION & QTY & UNIT PRICE & EXTENSION \\
\hline \multicolumn{4}{|l|}{Central Scanning Hardware \& Software License} \\
\hline ImageCast Central Includes: & 4 & \$18,500 & \$74,000 \\
\hline \begin{tabular}{l}
Canon DR-G1130 high speed document scanner. \\
- ImageCast \({ }^{\circledR}\) Central Software including third party Kofax VRS 4.5 software. \\
- OptiPlex 9020 All-in-One Series with pre-loaded software \\
- One (1) iButton Programmer and (1) iButton Key Switch \& Cat5 RJ 45
\end{tabular} & & & \\
\hline \begin{tabular}{l}
Cables \\
- 12 months Hardware Warranty \\
- 12 months Firmware License
\end{tabular} & & & \\
\hline
\end{tabular}
https://onbase.mesacounty.us/OnBaseAgendaOnline/Documents/Downloadfile/Special_Meeting_1018_Agenda_Packet_8_24_2021_1_00_0
0_PM.pdf?documentType=5\&meetingId=1018\&isAttachment=True

\section*{REFERENCE D - DATA MOVEMENT FROM BATCHES TO VOTES}

Below please find an example of how the data moves through the system from the batch to its votes, and how the ballot level vote data is obfuscated in the process. Blank and irrelevant fields are omitted.

When batch 4025 was received in the Mesa County November 2020 election, the following record was created in the batches table of the Adjudication database.
\begin{tabular}{|c|c|}
\hline Field & Value \\
\hline TabulatorId & 10 \\
\hline BatchId & 4025 \\
\hline Name & Tabulator \(10-\) Batch 4025 \\
\hline LoadOrder & 60 \\
\hline CreationTime & \(10 / 21 / 202: 20\) PM \\
\hline ModificationTime & \(10 / 22 / 2010: 33\) AM \\
\hline BallotCount & 99 \\
\hline HasAdjudicatedBallots & 1 \\
\hline
\end{tabular}

After all adjudication tasks were complete, a record exists in the Main election database ResultContainer table.
\begin{tabular}{|c|c|}
\hline Field & Value \\
\hline Id & 60 \\
\hline containerType & CVR \\
\hline resultState & Published \\
\hline batchId & 4025 \\
\hline fileName & 1_1_10_4025_DETAIL.DVD \\
\hline tabulatorId & 10 \\
\hline CvrSortOrder & 60 \\
\hline TimeStamp & \(10 / 19 / 204: 12\) PM \\
\hline
\end{tabular}

This table serves as a record of each individual batch received, and the batchId field (4025 in this case) references the BatchId of the Adjudication database's Batches table, as shown above. This is the first evidence of a break in referential integrity, as there is no database-level relationship between these two tables. In Page \(\mathbf{7 8}\) of \(\mathbf{8 8}\)
other words, the Batches record in the Adjudication database can be removed or altered without any warning or error being generated by the database.

Of note also is that the number of ballots which exists in each batch is not a part of the ResultContainertable. This makes reconciling the data in the Main election database tables much more difficult.

From here, the information goes to three other tables of interest in the Main election database. The first is CastVoteRecord, which contains the ballot-level vote data.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Id & ResultContainerId & RecordId & PrecinctPortionId & IsCurrent & OriginalCvrId & OutstackConditions & BallotTypeId & tabulatorId & batchId \\
\hline 5892 & 60 & 1 & 124 & 1 & NULL & 1088 & 5 & 10 & 4025 \\
\hline 5893 & 60 & 2 & 103 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5894 & 60 & 3 & 66 & 0 & NULL & 256 & 8 & 10 & 4025 \\
\hline 5895 & 60 & 4 & 44 & 1 & NULL & 1088 & 3 & 10 & 4025 \\
\hline 5896 & 60 & 5 & 111 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5897 & 60 & 6 & 63 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5898 & 60 & 7 & 79 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5899 & 60 & 8 & 98 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5900 & 60 & 9 & 22 & 1 & NULL & 1088 & 3 & 10 & 4025 \\
\hline 5901 & 60 & 10 & 22 & 0 & NULL & 256 & 3 & 10 & 4025 \\
\hline 5902 & 60 & 11 & 111 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5903 & 60 & 12 & 134 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5904 & 60 & 13 & 134 & 0 & NULL & 256 & 7 & 10 & 4025 \\
\hline 5905 & 60 & 14 & 4 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5906 & 60 & 15 & 100 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5907 & 60 & 16 & 98 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5908 & 60 & 17 & 40 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5909 & 60 & 18 & 129 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5910 & 60 & 19 & 124 & 1 & NULL & 1088 & 5 & 10 & 4025 \\
\hline 5911 & 60 & 20 & 108 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5912 & 60 & 21 & 131 & 0 & NULL & 5 & 7 & 10 & 4025 \\
\hline 5913 & 60 & 22 & 41 & 0 & NULL & 1344 & 1 & 10 & 4025 \\
\hline 5914 & 60 & 23 & 42 & 0 & NULL & 256 & 1 & 10 & 4025 \\
\hline 5915 & 60 & 24 & 13 & 1 & NULL & 1088 & 2 & 10 & 4025 \\
\hline 5916 & 60 & 25 & 42 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5917 & 60 & 26 & 2 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5918 & 60 & 27 & 42 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5919 & 60 & 28 & 60 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5920 & 60 & 29 & 95 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5921 & 60 & 30 & 100 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 5922 & 60 & 31 & 10 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5923 & 60 & 32 & 117 & 1 & NULL & 1088 & 5 & 10 & 4025 \\
\hline 5924 & 60 & 33 & 101 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5925 & 60 & 34 & 10 & 0 & NULL & 256 & 1 & 10 & 4025 \\
\hline 5926 & 60 & 35 & 102 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5927 & 60 & 36 & 60 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5928 & 60 & 37 & 101 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5929 & 60 & 38 & 7 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5930 & 60 & 39 & 41 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5931 & 60 & 40 & 101 & 0 & NULL & 1344 & 7 & 10 & 4025 \\
\hline 5932 & 60 & 41 & 62 & 1 & NULL & 1088 & 8 & 10 & 4025 \\
\hline 5933 & 60 & 42 & 46 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5934 & 60 & 43 & 70 & 1 & NULL & 0 & 8 & 10 & 4025 \\
\hline 5935 & 60 & 44 & 63 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5936 & 60 & 45 & 100 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5937 & 60 & 46 & 94 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5938 & 60 & 47 & 101 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5939 & 60 & 48 & 79 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5940 & 60 & 49 & 131 & 0 & NULL & 1 & 7 & 10 & 4025 \\
\hline 5941 & 60 & 50 & 3 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5942 & 60 & 51 & 108 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5943 & 60 & 52 & 63 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5944 & 60 & 53 & 105 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5945 & 60 & 54 & 100 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5946 & 60 & 55 & 17 & 1 & NULL & 0 & 3 & 10 & 4025 \\
\hline 5947 & 60 & 56 & 40 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5948 & 60 & 57 & 101 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5949 & 60 & 58 & 60 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5950 & 60 & 59 & 22 & 0 & NULL & 1 & 3 & 10 & 4025 \\
\hline 5951 & 60 & 60 & 134 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5952 & 60 & 61 & 103 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5953 & 60 & 62 & 60 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5954 & 60 & 63 & 7 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5955 & 60 & 64 & 52 & 1 & NULL & 0 & 3 & 10 & 4025 \\
\hline 5956 & 60 & 65 & 100 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5957 & 60 & 66 & 100 & 0 & NULL & 256 & 7 & 10 & 4025 \\
\hline 5958 & 60 & 67 & 101 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5959 & 60 & 68 & 79 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5960 & 60 & 69 & 100 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5961 & 60 & 70 & 129 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5962 & 60 & 71 & 98 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5963 & 60 & 72 & 138 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5964 & 60 & 73 & 119 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline
\end{tabular}

\section*{Page \(\mathbf{8 0}\) of \(\mathbf{8 8}\)}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 5965 & 60 & 74 & 50 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5966 & 60 & 75 & 102 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5967 & 60 & 76 & 100 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5968 & 60 & 77 & 22 & 1 & NULL & 1088 & 3 & 10 & 4025 \\
\hline 5969 & 60 & 78 & 60 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5970 & 60 & 79 & 44 & 0 & NULL & 1344 & 3 & 10 & 4025 \\
\hline 5971 & 60 & 80 & 101 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5972 & 60 & 81 & 111 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5973 & 60 & 82 & 129 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5974 & 60 & 83 & 98 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5975 & 60 & 84 & 111 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5976 & 60 & 85 & 34 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5977 & 60 & 86 & 35 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5978 & 60 & 87 & 17 & 1 & NULL & 0 & 3 & 10 & 4025 \\
\hline 5979 & 60 & 88 & 50 & 1 & NULL & 1088 & 1 & 10 & 4025 \\
\hline 5980 & 60 & 89 & 104 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5981 & 60 & 90 & 104 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5982 & 60 & 91 & 30 & 1 & NULL & 0 & 1 & 10 & 4025 \\
\hline 5983 & 60 & 92 & 134 & 1 & NULL & 0 & 7 & 10 & 4025 \\
\hline 5984 & 60 & 93 & 134 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5985 & 60 & 94 & 101 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5986 & 60 & 95 & 105 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5987 & 60 & 96 & 52 & 1 & NULL & 1088 & 3 & 10 & 4025 \\
\hline 5988 & 60 & 97 & 105 & 0 & NULL & 256 & 7 & 10 & 4025 \\
\hline 5989 & 60 & 98 & 100 & 1 & NULL & 1088 & 7 & 10 & 4025 \\
\hline 5990 & 60 & 99 & 98 & 0 & NULL & 1344 & 7 & 10 & 4025 \\
\hline 9514 & 60 & 3 & 66 & 1 & 5894 & 0 & 8 & 10 & 4025 \\
\hline 9515 & 60 & 10 & 22 & 1 & 5901 & 0 & 3 & 10 & 4025 \\
\hline 9516 & 60 & 13 & 134 & 1 & 5904 & 0 & 7 & 10 & 4025 \\
\hline 9517 & 60 & 22 & 41 & 1 & 5913 & 1088 & 1 & 10 & 4025 \\
\hline 9518 & 60 & 23 & 42 & 1 & 5914 & 0 & 1 & 10 & 4025 \\
\hline 9519 & 60 & 21 & 131 & 1 & 5912 & 1092 & 7 & 10 & 4025 \\
\hline 9620 & 60 & 34 & 10 & 1 & 5925 & 0 & 1 & 10 & 4025 \\
\hline 9621 & 60 & 49 & 131 & 1 & 5940 & 1088 & 7 & 10 & 4025 \\
\hline 9622 & 60 & 40 & 101 & 1 & 5931 & 1088 & 7 & 10 & 4025 \\
\hline 9623 & 60 & 59 & 22 & 1 & 5950 & 1 & 3 & 10 & 4025 \\
\hline 9624 & 60 & 66 & 100 & 1 & 5957 & 256 & 7 & 10 & 4025 \\
\hline 9625 & 60 & 79 & 44 & 1 & 5970 & 1088 & 3 & 10 & 4025 \\
\hline 9626 & 60 & 99 & 98 & 1 & 5990 & 1088 & 7 & 10 & 4025 \\
\hline 9728 & 60 & 97 & 105 & 1 & 5988 & 0 & 7 & 10 & 4025 \\
\hline
\end{tabular}

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There is one record for each ballot in batch 4025, and then an additional record for each ballot which went through the manual adjudication process. The IsCurrent field indicates which of the two ballot records is the latest one. No timestamp exists in this table to be able to determine the time the ballot data was entered or modified.

Unlike a "Cast Vote Record" file, this table contains no vote information.
Next is ResultSplitter. Batch 4025 was separated into 42 rows in this table:
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Id & numberOfValid & pollingDistrictId & resultContainerId & numberOfWriteIns & tabulatorid & ballotId \\
\hline 2008 & 1 & 30 & 60 & 0 & 10 & 1 \\
\hline 2007 & 2 & 104 & 60 & 0 & 10 & 7 \\
\hline 2006 & 1 & 35 & 60 & 0 & 10 & 1 \\
\hline 2005 & 1 & 34 & 60 & 0 & 10 & 1 \\
\hline 2004 & 2 & 50 & 60 & 0 & 10 & 1 \\
\hline 2003 & 1 & 119 & 60 & 0 & 10 & 7 \\
\hline 2002 & 1 & 138 & 60 & 0 & 10 & 7 \\
\hline 2001 & 2 & 52 & 60 & 0 & 10 & 3 \\
\hline 2000 & 2 & 17 & 60 & 0 & 10 & 3 \\
\hline 1999 & 3 & 105 & 60 & 0 & 10 & 7 \\
\hline 1998 & 1 & 3 & 60 & 0 & 10 & 1 \\
\hline 1997 & 1 & 94 & 60 & 0 & 10 & 7 \\
\hline 1996 & 1 & 70 & 60 & 0 & 10 & 8 \\
\hline 1995 & 1 & 46 & 60 & 0 & 10 & 1 \\
\hline 1994 & 1 & 62 & 60 & 0 & 10 & 8 \\
\hline 1993 & 2 & 7 & 60 & 0 & 10 & 1 \\
\hline 1992 & 2 & 102 & 60 & 0 & 10 & 7 \\
\hline 1991 & 8 & 101 & 60 & 0 & 10 & 7 \\
\hline 1990 & 1 & 117 & 60 & 0 & 10 & 5 \\
\hline 1989 & 2 & 10 & 60 & 0 & 10 & 1 \\
\hline 1988 & 1 & 95 & 60 & 0 & 10 & 7 \\
\hline 1987 & 5 & 60 & 60 & 0 & 10 & 7 \\
\hline 1986 & 1 & 2 & 60 & 0 & 10 & 1 \\
\hline 1985 & 1 & 13 & 60 & 0 & 10 & 2 \\
\hline 1984 & 3 & 42 & 60 & 0 & 10 & 1 \\
\hline 1983 & 2 & 41 & 60 & 0 & 10 & 1 \\
\hline 1982 & 2 & 131 & 60 & 0 & 10 & 7 \\
\hline 1981 & 2 & 108 & 60 & 0 & 10 & 7 \\
\hline 1980 & 3 & 129 & 60 & 0 & 10 & 7 \\
\hline 1979 & 2 & 40 & 60 & 0 & 10 & 1 \\
\hline 1978 & 9 & 100 & 60 & 0 & 10 & 7 \\
\hline
\end{tabular}

Page \(\mathbf{8 2}\) of \(\mathbf{8 8}\)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline 1977 & 1 & 4 & 60 & 0 & 10 & 1 \\
\hline 1976 & 5 & 134 & 60 & 0 & 10 & 7 \\
\hline 1975 & 4 & 22 & 60 & 1 & 10 & 3 \\
\hline 1974 & 5 & 98 & 60 & 0 & 10 & 7 \\
\hline 1973 & 3 & 79 & 60 & 0 & 10 & 7 \\
\hline 1972 & 3 & 63 & 60 & 0 & 10 & 7 \\
\hline 1971 & 4 & 111 & 60 & 0 & 10 & 7 \\
\hline 1970 & 2 & 64 & 66 & 60 & 0 & 10 \\
\hline 1969 & 1 & 103 & 60 & 0 & 10 & 8 \\
\hline 1968 & 2 & 124 & 60 & 0 & 10 & 7 \\
\hline 1967 & 2 & & & 10 & 5 \\
\hline
\end{tabular}

The 99 ballots in batch 4025 are segregated here by polling district number. No vote information appears in this table, and this table links back to its corresponding record in the ResultContainertable through the resultContainerId field. Again, this table contains no specific vote information for the ballots.

Next is the table ChoiceResult. Because of how the records are aggregated, there are over 1,600 records for batch 4025 . For brevity, only the first 49 records are displayed.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline Id & numberOfVotes & isValid & contestResultid & pollingDistrictId & tabulatorId & resultContainerId & choiceId & partyId \\
\hline 72135 & 2 & 1 & 56749 & 63 & 10 & 60 & 82 & 0 \\
\hline 72136 & 1 & 1 & 56749 & 63 & 10 & 60 & 83 & 0 \\
\hline 72137 & 2 & 1 & 56750 & 63 & 10 & 60 & 88 & 0 \\
\hline 72138 & 1 & 1 & 56750 & 63 & 10 & 60 & 89 & 0 \\
\hline 72139 & 2 & 1 & 56751 & 79 & 10 & 60 & 2 & 0 \\
\hline 72140 & 1 & 1 & 56751 & 79 & 10 & 60 & 1 & 0 \\
\hline 72141 & 2 & 1 & 56752 & 79 & 10 & 60 & 23 & 5 \\
\hline 72142 & 1 & 1 & 56752 & 79 & 10 & 60 & 22 & 2 \\
\hline 72143 & 2 & 1 & 56753 & 79 & 10 & 60 & 27 & 5 \\
\hline 72144 & 1 & 1 & 56753 & 79 & 10 & 60 & 28 & 2 \\
\hline 72145 & 2 & 1 & 56754 & 79 & 10 & 60 & 32 & 5 \\
\hline 72146 & 1 & 1 & 56754 & 79 & 10 & 60 & 31 & 2 \\
\hline 72147 & 2 & 1 & 56755 & 79 & 10 & 60 & 35 & 5 \\
\hline 72148 & 1 & 1 & 56755 & 79 & 10 & 60 & 36 & 2 \\
\hline 72149 & 2 & 1 & 56756 & 79 & 10 & 60 & 38 & 5 \\
\hline 72150 & 2 & 1 & 56757 & 79 & 10 & 60 & 39 & 5 \\
\hline 72151 & 1 & 1 & 56757 & 79 & 10 & 60 & 40 & 2 \\
\hline 72152 & 2 & 1 & 56758 & 79 & 10 & 60 & 42 & 5 \\
\hline 72153 & 1 & 1 & 56758 & 79 & 10 & 60 & 41 & 2 \\
\hline
\end{tabular}

Page \(\mathbf{8 3}\) of \(\mathbf{8 8}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline 72154 & 3 & 1 & 56759 & 79 & 10 & 60 & 44 & 0 \\
\hline 72155 & 3 & 1 & 56760 & 79 & 10 & 60 & 46 & 0 \\
\hline 72156 & 3 & 1 & 56761 & 79 & 10 & 60 & 48 & 0 \\
\hline 72157 & 3 & 1 & 56762 & 79 & 10 & 60 & 50 & 0 \\
\hline 72158 & 2 & 1 & 56763 & 79 & 10 & 60 & 74 & 0 \\
\hline 72159 & 1 & 1 & 56763 & 79 & 10 & 60 & 75 & 0 \\
\hline 72160 & 3 & 1 & 56764 & 79 & 10 & 60 & 76 & 0 \\
\hline 72161 & 3 & 1 & 56765 & 79 & 10 & 60 & 78 & 0 \\
\hline 72162 & 3 & 1 & 56766 & 79 & 10 & 60 & 80 & 0 \\
\hline 72163 & 2 & 1 & 56767 & 79 & 10 & 60 & 53 & 0 \\
\hline 72164 & 1 & 1 & 56767 & 79 & 10 & 60 & 52 & 0 \\
\hline 72165 & 3 & 1 & 56768 & 79 & 10 & 60 & 55 & 0 \\
\hline 72166 & 2 & 1 & 56769 & 79 & 10 & 60 & 56 & 0 \\
\hline 72167 & 1 & 1 & 56769 & 79 & 10 & 60 & 57 & 0 \\
\hline 72134 & 3 & 1 & 56748 & 63 & 10 & 60 & 73 & 0 \\
\hline 72133 & 1 & 1 & 56747 & 63 & 10 & 60 & 71 & 0 \\
\hline 72132 & 2 & 1 & 56747 & 63 & 10 & 60 & 70 & 0 \\
\hline 72131 & 3 & 1 & 56746 & 63 & 10 & 60 & 68 & 0 \\
\hline 72130 & 2 & 1 & 56745 & 63 & 10 & 60 & 66 & 0 \\
\hline 72129 & 1 & 1 & 56745 & 63 & 10 & 60 & 67 & 0 \\
\hline 72128 & 2 & 1 & 56744 & 63 & 10 & 60 & 65 & 0 \\
\hline 72127 & 1 & 1 & 56744 & 63 & 10 & 60 & 64 & 0 \\
\hline 72126 & 1 & 1 & 56743 & 63 & 10 & 60 & 63 & 0 \\
\hline 72125 & 2 & 1 & 56743 & 63 & 10 & 60 & 62 & 0 \\
\hline 72124 & 1 & 1 & 56742 & 63 & 10 & 60 & 60 & 0 \\
\hline 72123 & 2 & 1 & 56742 & 63 & 10 & 60 & 61 & 0 \\
\hline 72122 & 2 & 1 & 56741 & 63 & 10 & 60 & 59 & 0 \\
\hline 72121 & 1 & 1 & 56741 & 63 & 10 & 60 & 58 & 0 \\
\hline 72120 & 1 & 1 & 56740 & 63 & 10 & 60 & 57 & 0 \\
\hline 72119 & 2 & 1 & 56740 & 63 & 10 & 60 & 56 & 0 \\
\hline
\end{tabular}

This table, the only table which actually has a record of the vote totals used to produce reports, aggregates the votes by polling district and candidate or issue choice. As an example, the fifth line of data specifies that there are two votes for Donald Trump (choiceId 2, which references the internalMachineId field of the table Choice) from polling district 3075539035 - GJ (pollingDistrictId 79, which references the internalMachineId field of the table PollingDistrict).

From this table, and the associated tables it links to, all reports are generated. As this is the only table which records vote choices, this is a single point of attack Page 84 of 88
or failure for the entire vote counting process of the Dominion system. Changes can be made to this table by any process, for instance changing the number of votes or the candidate, would be undetectable as such changes do not affect any other records in any other tables. Nor would such changes require alterations of any other records in any other tables.

Additionally, there is no way to consistently link a particular vote shown in the ChoiceResult table to its original ballot within the batch.

The foregoing Forensic Examination and Report was prepared by us, and we are responsible for its content.

The \(19^{\text {th }}\) day of March 2022.


Walter C. Daugherity Senior Lecturer Emeritus Department of Computer Science and Engineering Texas A\&M University

\section*{BIOGRAPHY}

Jeffrey O'Donnell is a Full Stack software and database developer and analyst. He holds Bachelor's degrees in Computer Science and Mathematics from the University of Pittsburgh.

Over the last 40 years, Mr. O'Donnell has worked and consulted for numerous private sector corporations, including Rockwell International, Westinghouse Electric Nuclear, General Defense, U.S. Steel, Mellon Bank, IOTA 360, and the Penn State Applied Research Laboratory. For several years he also delivered and created computer science curriculum for the Community College of Allegheny County.

For the last two decades, Mr. O'Donnell has developed numerous "big data" analysis systems, including systems to provide short-term stock market investors with new types of research and predictive analytics.

He currently is President of Qest Development, a full-service software consulting and publishing company, and is Chief Information Officer of Ordros Analytics, which specializes in election analytics of all types.

Dr. Walter C. Daugherity is a computer consultant and also Senior Lecturer Emeritus in the Department of Computer Science and Engineering at Texas A\&M University. He graduated from Oklahoma Christian University with a degree in mathematics, and then earned master's and doctor's degrees from Harvard University, which he attended on a Prize Fellowship from the National Science Foundation.

As a computer expert he has consulted for major national and international firms, and for government agencies. He helped develop the national computer keyboard standard and invented integrated user training within computer applications as well as various electronic computer interfaces.

As a computer science and engineering teacher and researcher, he has published 26 research articles from over \(\$ 2.8\) million in funded research projects, plus conference papers and other publications. He taught many areas of computer science and engineering for 37 years ( 32 years at Texas A\&M University), including artificial intelligence, quantum computing, programming and software design, and cyber-ethics.

At Harvard he received the Bowdoin Prize and medal for writing, and in 2015 was named a Distinguished Alumnus of Oklahoma Christian University. He is a life member of the Association for Computing Machinery and American MENSA.
\begin{tabular}{ll} 
From: & \multicolumn{1}{c}{ Anthony Gairnese } \\
To: & OE.Elections \\
Subject: & [EXTERNAL] Fwd: Mesa Colorado \& Seth Keshel data analysis \\
Date: & Friday, April 1, 2022 3:29:06 PM \\
Attachments: & image.png
\end{tabular}

Mr. Commissioner,
See attached information regarding Mesa Colorado Tabulation Machine findings and Seth Keshel Presentation,

Respectfully,
Anthony Gairnese

\section*{Tony Gairnese}

Territory Manager Hawaii
AMG Medical Sales
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Honolulu, Hawaii 96821

---------- Forwarded message \(\qquad\)
From: Anthony Gairnese < gairnese@gmail.com>
Date: Fri, Apr 1, 2022 at 9:03 PM
Subject: Mesa Colorado \& Seth Keshel data analysis
To: Anthony Gairnese <gairnese@gmail.com>

Tony
Mesa, CO, Forensic Report \#2 - Key Findings Released 3-22-2022
1. Uncertified software installed, rendering the voting system unlawful for use in elections. 2. Does not meet statutorily mandated Voting System Standards (VSS) and could not have been lawfully certified for purchase or use.
3. Suffered systematic deletion of election records (audit log files required by Federal and

State law to be generated and maintained), which, in combination with other issues revealed in this report, creates an unauditable "back door" into the election system.
4. Violates Voting Systems Standards ("VSS") which expressly mandate prevention of the ability to "change calculated vote totals." This report documents this non-compliance from the logged-in EMS server, from a non-DVS computer with network access, and from a cell phone (which may be possible if any of the 36 internal wireless devices in voting system components are deliberately or accidentally enabled and a password is obtained).
5. Mandatory VSS "System Auditability" required features are disabled.
6. Is configured with 36 wireless devices, which represent an extreme and unnecessary vulnerability, and which may be exploited to obtain unauthorized access from external devices, networks, and the Internet.
7. Is configured through firewall settings to allow any computer in the world to connect to the Election Management System (EMS) server.
8. Uses only a Windows password with generic user lDs to restrict and control access.
9. Contains user accounts with administrative access that share passwords, subverting VSS required user accountability and action traceability controls.
10. Uses a self-signed encryption certificate which exposes the system to the risk of undetected compromise or alteration.
Mesa CO, Proof of Election Machine Manipulation - Key findings
1. Multiple databases: The Mesa County voting system server should have had 3 databases in its election project for each election. 2 additional databases were found for two separate elections. The existence of those additional databases, and the movement of ballot records between them, breaking the chain of evidence needed for ballot and vote authentication is proof of voting system non-compliance with Federal Voting System Standards mandatory under Colorado law, and proof of manipulation. This is akin to having two sets of accounting records in a business, to hide fraudulent and illegal financial transactions.
2. A pattern of multiple illegal databases in separate elections: Multiple databases were found in both the 2020 election records, and in the 2021 election records. Slight variations in the method of ballot and batch record copying between databases reinforces the conclusion that the manipulation was deliberate.
3. Ballot and election records chain of evidence broken in multiple ways: Once ballot images and records were moved, deleted, manipulated, and re-copied, the chain of evidence was broken. Digital files required to verify ballot image authenticity simply did not exist in the new databases. It makes it impossible to verify the authenticity of so many ballot records. Now election results cannot be determined from the voting system records.

\section*{Also, A link to the Seth Keshel presentation:}
https://rumble.com/vwyfq2-seth-keshel-oahu-presentation-march-4th-2022.html

HAWAII
Biden - 366k (63.7\%)
Trump - 197k (34.3\%)
I remember a recent president from HI who maxed out at 325 k votes, with GOP topping out at \(121 k\), as main voting center of state only grew by \(2 \%\) in population over the entire decade. It seems people had been waiting for Biden this entire time.

Trump's gain of 68k in HI is a GOP record. Hawaii added 76k new voters since 2016, and when viewing the trend, there has been a tightening since 2008, with loss of D votes all around since Obama's first run. Historically, GOP incumbents run stronger in HI during reelection (Reagan won it and GW Bush had 45\%.

Estimated excess:
Hawaii - 10k
Maui-10k
Kauai-5k
Honolulu - 30k

If told ahead of time Trump would receive \(197 k\) votes, I am estimating that Biden is 55 k higher than would be thought possible, at most generous expectations and assigning all third party totals from 2016 to his column. More accurate margin considering ONLY excess votes is about \(21.9 \%\), with Trump near \(40 \%\) in Honolulu.


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Election Commission, April 1, 2022

Regarding Motion to Initiate Investigation;

Mr. Adriel Lam's information has led to two reports by Election officials.
March 29, 2022 Status of Operations by Scott Nago, Chief Election Officer, and

March 16, 2022 County Clerk/Election Official,
SUBJECT: Hawaii's Voter Registration Roll
These documents were generated by concerns expressed in prior Election Commission meetings, and should be the initial documentation received in our Investigation.

Additionally, I would request copies of Hawaii Office of Elections Standard Operating Procedures (SOP) training manual used for training County Elections staff, officers and observers. Traditionally, State Elections staff have traveled to train each County's Election staff.

I'd ask for the Training Syllabi for the 2018, 2020, and most importantly, the 2022 Elections. These manuals define the roles of Election Officials at each step of the balloting process, and the required documentation to assure election integrity.

I've been trained as Delivery \& Collection Team officer, through several Election cycles.

The other information l'd ask for are the "metrics" the various Election Offices track, specific to ballots, in their various stages.

Did we lose Precinct specific data?

The intent of this Investigation is to convince the Election Commission, and thus the "public," of the integrity of Hawaii Elections. That's my purpose, here.

Michael Curtis
Election Commission```

