BOMBSHELL PROOF Election Machine Manipulation

Report #2
Election Database and Data Process Analysis

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Abstract

This report documents the findings of an examination of Ballot Image Manipulation based on forensic analysis of the time stamps of Mesa County, Colorado's Dominion Voting Systems (DVS) Election Management System (EMS) Logs. The analysis in this report uncovers the process by which votes were added to the legal team recreating Tina Peters, the Mesa County Clerk and Recorder, Election Database. The process by which votes were added to the EMS Database provide evidence of unauthorized and illegal manipulation of Colorado vote data during the 2020 General Election and 2021 Grand Junction Municipal Election. Additional evidence is provided that the Dominion Voting Systems Software was intentionally created to verify, the results of the November 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 Election version 5.10.

Findings and Implications:

1) There was an unprecedented number of new election databases during early voting in the 2020 General Election on October 31, 2020, followed by the mass deletion of 2,874 ballot records, making the ballots cast in these databases vanishing the original voter intent recorded in the ballots unknown. In addition, 5,867 ballots in 58 batches do not have their digital records ever being recorded in the main database. Finally, 2,874 ballots in 48 batches were recorded in the main database.

2) The same unauthorized creation of new election databases occurred during the 2021 Grand Junction Municipal Election. This time, followed by the digital metadata recording of 2,874 ballot records, making the ballots cast in these databases vanishing the original voter intent recorded in 4,858 ballots in 49 batches did not have their digital records copied to the main database.

> new database, although the votes from the ballots in those batches were recorded in the Main election database.
>
> 3) Absence of secure hash algorithm (Sha) files for each digital ballot image makes the authenticity of each digital ballot image, and the ballot level report for those ballots, impossible to verify.
>
> 4) The total time stamp in Mesa County, Colorado cannot be accurately determined. The Mesa County, Colorado, Dominion Voting Systems Election Management Station from recently in the possession 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 create the anomalous data and time stamp sequence of the ballot records that these events occurred. Given the complex sequence of data manipulations and deletions necessary to produce the digital evidence contained in this report, it is highly improbable that this report is the result of either deliberate or inadvertent actions by local election 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 illegal activity of the Mesa County election officials and Dominion employees. The deletion of all data from the hard drive of the server is described in the "Mesa County, Colorado Voting Systems Forensic Examination and Analysis Report".
>
> The fact that such ballot record manipulation has been shown to occur without detection, should call into question, all Colorado election results. The manipulation would be undetectable to any election official using the voting systems, nor to an observer or judge overseeing the election conduct, much less to citizens who are monitoring 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.

INTRODUCTION

The use of computerized election management systems is now nearly universal throughout the United States. While the use of these systems is touted as "efficient", potentially decreasing manpower costs and time to produce election results, the lack of oversight of these systems, and the ease with which they can be altered undetectably from outside or inside vendors, poses independent and deliberate misconfiguration or misuse. Americans' right to free and fair elections demands that the integrity of these systems be put to rigorous and by whatever means that dispose cyber.

Without free and fair elections and the transparency to see it for themselves, citizens are deprived of their ability to govern themselves and their representation is illusory. Without the transparency, citizens would immediately cause the public to doubt the purported result from those elections and also anyone who insists that they actual know them.

Therefore, it is critical that we pay attention to safeguard our voting rights and the integrity of our elections. Title 52 USC provides for federal oversight and guidance in this area, and Colorado Revised Statute (CRS) Title 1 covers most of the Colorado state guidance.

> 52 U.S. Code § 10307 prohibits any person acting under color of law to "deprive or attempt to deprive Colorado courts and reports", " the vote of any person entitled to vote.
>
> 52 U.S. Code § 10308(d) prescribes penalties for any person depriving or attempting to deprive any person of any right secured by Section 10301 or 10302.
>
> 52 U.S. Code § 10308(e) prescribes penalties for conspiring to violate or interfere with secured voting rights.
>
> 52 U.S. Code § 20701 requires the preservation of all election records for 22 months after an election for federal offices.
>
> 52 U.S. Code § 20702 prescribes penalties for theft, destruction, concealment, mutilation, or alteration of election records.
>
> 52 U.S. Code § 20703 requires that election records be made available to a Federal office meet the standards of that section, including that the voting machine produce a "durable, legible, and permanent record" of the vote. "That the error rate of the voting system in vote tabulation, cast votes, with the error rate standards established under section 3.2.1, of " the Voluntary Voting System Guidelines adopted by the Commission."
>
> CRS 24-9-601 requires that voting systems and equipment, in compliance meet 2002 VSS standards, at minimum.
>
> CRS 24-72-302 requires the preservation of records for 25 months after a federal election.
>
> CRS 32-1-101 prescribes penalties for destroying, removing or delaying delivery of election records.

Title 52 clarifies that the "every office of election" is responsible for maintaining the election records.

> 52 U.S. Code § 20701 "Every officer of election shall retain and preserve, for a period of 22 months from the date of any election for the office of President, 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, upon demand in writing by any Federal examiner or observer, he may delivery to such examiner or observer the poll lists and tally sheets for such election."
>
> 52 U.S. Code § 20702 "Whoever, being an officer of election or custodian, shall willfully steal, destroy, conceal, mutilate, or alter any record or paper preserved by him pursuant to section 20701 of this title, or by any other Federal law, or by any State law in connection with the election of any Federal officer, or aids, abets, or counsels another to do so, shall be fined not more than $1,000 or imprisoned not more than 1 year, or both."
>
> 52 U.S. Code § 20703 "To the end that ballots cast in elections for Federal offices may be counted and results of such elections may be tabulated accurately and speedily, each election officer shall preserve for the period of time required by section 20701 of this title the ballots, ballot labels, and other papers and records relating to such elections."

Mesa County, Colorado, uses software and hardware provided by DVS and for the 2020 General Election and the 2021 Grand Junction Municipal Election. Dominion Voting Systems (DVS) Election Management System (EMS) records election results and issues, and reflecting the chronology of those results from among the options available for each race and issue. A digital image of each ballot is recorded and stored in the database, along with the time and sequence of ballots, as identified below, and the ballot level report for each ballot image, "Ballot Image Report #2, Forensic Examination and Analysis Report" by D. Gould for the Colorado voting system.

"Ballot" refers to an item used to describe the process of recording voter intent from a voter's ballot marks, where ballot markings are ambiguous. According to Dominion's documentation, the DVS software uses "ballot adjudication" to determine what ballots need to determine, and, in the process, alter, adjudicate voter intent". In the DVS to Public, adjudication refers to the operation and use of the software application that allows a bipartisan team to review ballots with ambiguous marks and to manually or automatically record voter intent from scanned ballot images, and then to record that interpretation as the record of voter intent. The ballot image is then saved in the DVS database with the original filenames, Ballot Type, Scanner, Scanned, or "Submission Error". Throughout, "Adjudication database".

"Election database" The DVS Suite version used in Mesa County during the November 2020 and April 2021 elections maintains a database for each election, which contains the ballots and ballot records created, presumably to aggregate voter information similar to used to produce all election reports required by County officials. Throughout, "Main Election database".

> "A Election Management System (EMS) is a set of software applications running on a server or workstation that manages all aspects of an election. It manages creating a set of ballots for an election, tabulating votes, and producing reports. It also manages the process of exporting election results and ballot images to other software applications."
>
> "The Adjudication module is used to produce an election reports from ballots that have been adjudicated."
>
> "Adjudication is the process of reviewing ballots with ambiguous marks and deciding how to count the votes on those ballots. Adjudication is a manual process that takes place after the ballots have been tabulated. Adjudication is done on a copy of the original election database."

"Tabulation database". The DVS Suite version used in Mesa County during the November 2020 and April 2021 elections maintains a database for each election, called a "Tabulation database" by DVS, which contains the timestamps and ballot images created by the scanners during the tabulation process, presumably before the adjudication database. It contains other ballots which are not used by Mesa County's elections. Throughout, "Tabulation database".

"Normalized" for the purposes of this report, means the term "normalized" means that one or more data records which have already been created, presumably by the voting system software, are then altered by the EMS software application to "more" chronologically possible through manual means. All records, within the databases associated with an election, were loaded into the system again by a single user, "adminadjudication", using the "import" function and then manually altered to create a chronologically more chronologically ordered operations production or function. A comparison with the log files of the respective EC workstations might show the extent of the manipulation of the data and time stamps. Unless, the log but many of those log files have been destroyed by the Secretary of State's "Trusted Build."

ANALYSIS

1. Evidence of ballot record data manipulation - November 2020 General Election

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

October 19, 2020 - October 21, 2020, 2:14 PM

Over the first three days of ballot counting in Mesa County, up until 2:14 PM on October 21, 2020, 58 batches containing 5,867 ballots were created and processed (including scanned in) DVS 32 scanners with voter intent recorded in the form of marks on the ballots, scanned and interpreted by software through Dominion's software, internally identified in the Main database as batches 33 to 91. These digital election records contain no unusual delays or errors between the creation of the batch and the scanning of the ballots. The Main database database stores all the time-contains records of all batches with a sequence "id" of 33-91, and other tables within it record the information about each ballot, such as the scanner used, the time the ballot was scanned, and the adjudication status. These which were adjudicated. The database tables have the proper status records indicating that the normal adjudication steps occurred.

The initial DVS database archived through Dominion software (v5.10) contains 58 batches, had timestamps indicating that they were all entered into the database within a span of 2 days, 2 hours, 34 minutes, and 37 seconds. Subsequently, the Cast Vote Records of a list of batches and their timestamps in the **original**. Adjudication database. The Cast Vote CVR-0001.csv, which according to Dominion's documentation, contains the "Cast Vote Records" for the November 2020 General Election in Mesa County (see Reference 1 and the Colorado Secretary of State website), operates at approximately 180 pages per batch, and 5,867 ballots. The Cast Vote Records (CVR) contain the ballots cast in the database from 33-91 inclusive, which is 58 records, per batch. 58 batches of 58 records per batch should have been a minimum of 964 seconds, or slightly more than 16 minutes, to process the ballots into the database, if all were processed by physically impossible. Mesa County election clerks were unaware of these batch timestamps, or any issue which could indicate fraud.

October 21, 2020 - 2:14 PM

According to the data contained in the DVS SQL Server Database, new Tabulation and Adjudication databases were created on the DVS server at 12:18:00 PM October 21, 2020. These databases initially contained no data records.

The initial DVS database archived through Dominion software (v5.10) contains 4 batches, had timestamps indicating that they were all entered into the database within a span of 1 minute, 0 seconds. The Cast Vote Records of a list of batches and their timestamps in the **original**. Adjudication database. The Cast Vote CVR-0002.csv, which according to Dominion's documentation, contains the "Cast Vote Records" for the November 2020 General Election in Mesa County (see Reference 1 and the Colorado Secretary of State website), operates at approximately 180 pages per batch, and 2,874 ballots. The Cast Vote Records (CVR) contain the ballots cast in the database from 92-95 inclusive, which is 58 records, per batch. 58 batches of 58 records per batch should have been a minimum of 964 seconds, or slightly more than 16 minutes, to process the ballots into the database, if all were processed by physically impossible. Mesa County election clerks were unaware of these batch timestamps, or any issue which could indicate fraud.

October 21, 2020 - 2:14 PM

> 1. **Direct action by Mesa County personnel**
>
> Mesa County election officials and election clerks give them the ability to copy and restart adjudication, which would create the data discrepancies.
>
> 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.
>
> 2. **Trojan-horse**
>
> The "Forensic Examination and Analysis Report" by D. Gould identifies numerous security vulnerabilities of the Dominion Voting System. In a signal, or external trigger,[1] giving instructions to software inside the EMS to "Trojan-horse" software, which would then execute the data manipulation perfectly, or through the part of the software that has been demonstrated to be open on the server and accepting commands via unsecured ports and unsecured protocols. The Trojan-horse software, or information, could have been received via a local network connection (from any device connected to the EMS server's internal network), from a remote connection to the EMS server, or from a USB device, which was plugged to the external port of the EMS server (or any other port of the EMS 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

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

This option is plausible but offers a degree of external, time-sensitive control over the DVS equipment in use in Mesa County. This control might be considered unacceptable by the perpetrators responsible for manipulating the election results, for fear of being discovered by other unauthorized network connections, whether they be local (wired ethernet, wireless network connection, or cellular modem, could have been discovered during the election period.

> 3. **Algorithmically Triggered**
>
> Software, which was installed 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 programmed-in criteria related to the elections.
>
> 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 to process the ballot records could be based on the time of the first ballot processed, or on a random another connected machine running Dominion software) based on unexpected voting patterns.

October 21, 2020, 2:28 PM - 2:34 PM

During this time period, 208 out of the original 2874 ballots (containing a total of 2874 ballots) were slightly - not physically - moved into the Adjudication and Tabulation databases. Specifically, records for batches with voter order of higher 58 were not relocated and do not appear in the new

Adjudication database in any form. The timestamps of the 208 batch records that were moved, however, show that the entire process of copying the records and deleting them took approximately 6 seconds and that the records have been physically processed into the newly created Adjudication and Tabulation databases in the same order as they were in the original Adjudication database. For example the 208 ballots in batch 92 were moved before batch 93 was moved. It is possible that these 208 ballots had been physically recreated (i.e., the ballot marks were re-scanned and re-interpreted by the software) in the new Adjudication and Tabulation database. This process indicates that ballots could only have been loaded into the Adjudication database and Tabulation database by using software code or

[1] "Trojan-horse" is used in the Trojan-horse metaphor (metaphorical) sense (e.g. a computer worm) rather than literal sense (e.g. a literal horse made of wood). Wikipedia, "Trojan horse (disambiguation)", https://en.wikipedia.org/wiki/Trojan_horse_(disambiguation), 2020-12-30

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Figure 62 of Bartosz Wojciech's Mesa County Elections Database

ballot_type	ballot_id	batch_id	ballot_sequence	scanner	ballot_type	ballot_id	batch_id	ballot_sequence	scanner
2	2	1	1	1	2	2	1	1	1
2	3	1	2	1	2	3	1	2	1
2	4	1	3	1	2	4	1	3	1
2	5	1	4	1	2	5	1	4	1
2	6	1	5	1	2	6	1	5	1
2	7	1	6	1	2	7	1	6	1
2	8	1	7	1	2	8	1	7	1
2	9	1	8	1	2	9	1	8	1
2	10	1	9	1	2	10	1	9	1
2	11	1	10	1	2	11	1	10	1
2	12	1	11	1	2	12	1	11	1
2	13	1	12	1	2	13	1	12	1
2	14	1	13	1	2	14	1	13	1
2	15	1	14	1	2	15	1	14	1
2	16	1	15	1	2	16	1	15	1
2	17	1	16	1	2	17	1	16	1
2	18	1	17	1	2	18	1	17	1
2	19	1	18	1	2	19	1	18	1
2	20	1	19	1	2	20	1	19	1
2	21	1	20	1	2	21	1	20	1
2	22	1	21	1	2	22	1	21	1
2	23	1	22	1	2	23	1	22	1
2	24	1	23	1	2	24	1	23	1
2	25	1	24	1	2	25	1	24	1
2	26	1	25	1	2	26	1	25	1
2	27	1	26	1	2	27	1	26	1
2	28	1	27	1	2	28	1	27	1
2	29	1	28	1	2	29	1	28	1
2	30	1	29	1	2	30	1	29	1
2	31	1	30	1	2	31	1	30	1
2	32	1	31	1	2	32	1	31	1
2	33	1	32	1	2	33	1	32	1
2	34	1	33	1	2	34	1	33	1
2	35	1	34	1	2	35	1	34	1
2	36	1	35	1	2	36	1	35	1
2	37	1	36	1	2	37	1	36	1
2	38	1	37	1	2	38	1	37	1
2	39	1	38	1	2	39	1	38	1
2	40	1	39	1	2	40	1	39	1
2	41	1	40	1	2	41	1	40	1
2	42	1	41	1	2	42	1	41	1
2	43	1	42	1	2	43	1	42	1
2	44	1	43	1	2	44	1	43	1
2	45	1	44	1	2	45	1	44	1
2	46	1	45	1	2	46	1	45	1
2	47	1	46	1	2	47	1	46	1
2	48	1	47	1	2	48	1	47	1
2	49	1	48	1	2	49	1	48	1
2	50	1	49	1	2	50	1	49	1
2	51	1	50	1	2	51	1	50	1
2	52	1	51	1	2	52	1	51	1
2	53	1	52	1	2	53	1	52	1
2	54	1	53	1	2	54	1	53	1
2	55	1	54	1	2	55	1	54	1
2	56	1	55	1	2	56	1	55	1
2	57	1	56	1	2	57	1	56	1
2	58	1	57	1	2	58	1	57	1
2	59	1	58	1	2	59	1	58	1
2	60	1	59	1	2	60	1	59	1
2	61	1	60	1	2	61	1	60	1
2	62	1	61	1	2	62	1	61	1
2	63	1	62	1	2	63	1	62	1
2	64	1	63	1	2	64	1	63	1
2	65	1	64	1	2	65	1	64	1
2	66	1	65	1	2	66	1	65	1
2	67	1	66	1	2	67	1	66	1
2	68	1	67	1	2	68	1	67	1
2	69	1	68	1	2	69	1	68	1
2	70	1	69	1	2	70	1	69	1
2	71	1	70	1	2	71	1	70	1
2	72	1	71	1	2	72	1	71	1
2	73	1	72	1	2	73	1	72	1
2	74	1	73	1	2	74	1	73	1
2	75	1	74	1	2	75	1	74	1
2	76	1	75	1	2	76	1	75	1
2	77	1	76	1	2	77	1	76	1
2	78	1	77	1	2	78	1	77	1
2	79	1	78	1	2	79	1	78	1
2	80	1	79	1	2	80	1	79	1
2	81	1	80	1	2	81	1	80	1
2	82	1	81	1	2	82	1	81	1
2	83	1	82	1	2	83	1	82	1
2	84	1	83	1	2	84	1	83	1
2	85	1	84	1	2	85	1	84	1
2	86	1	85	1	2	86	1	85	1
2	87	1	86	1	2	87	1	86	1
2	88	1	87	1	2	88	1	87	1
2	89	1	88	1	2	89	1	88	1
2	90	1	89	1	2	90	1	89	1
2	91	1	90	1	2	91	1	90	1
2	92	1	91	1	2	92	1	91	1
2	93	1	92	1	2	93	1	92	1
2	94	1	93	1	2	94	1	93	1
2	95	1	94	1	2	95	1	94	1
2	96	1	95	1	2	96	1	95	1
2	97	1	96	1	2	97	1	96	1
2	98	1	97	1	2	98	1	97	1
2	99	1	98	1	2	99	1	98	1
2	100	1	99	1	2	100	1	99	1

While the record of the batch with load order 3 was copied, there is a gap of 98 batches before the second one, which is a record of the batch with load order 101.

60. Batch load order numbers 2 through 99 were not copied, and never existed in the new Adjudication database.

The extra records describing the ballots and the ballots contained within them in the new Adjudication database, specifically the time stamps shown in the Cast_Vote_Record table, were created by the software that was installed on the Juniper laptop and ballots were not physically scanned. Therefore, it appears the process of scanning three ballots was simulated, and the records of the batch with load order number 101 were created, and the information copied from the original Adjudication database into the new Adjudication database.

The absence below in the sequence of events deleting the processing of batch 4924 (whose ballots and records were not copied to the new Adjudication database) and the creation of batch 101 is evidence of the creation of the new Adjudication database. This will illustrate the same numbers between copied and uncopied batch and batch records.

Batch 4924 is contained in the original Adjudication database as being created at 4:09:24 PM on October 20. It contained 100 ballots and was scanned by scanner 1. Batch 4924 was deleted at 4:09:24 PM on October 20 in the original Adjudication database. The ballot numbers in the batch were manually adjudicated were 4, 8, 13, 14, 30, 46, 61, 87, 88, and 90. Then, the votes were adjudicated for ballots 4, 8, 13, 14, 30, 46, 61, 87, 88, and 90. Then, the votes were adjudicated for ballots 4, 8, 13, 14, 30, 46, 61, 87, 88, and 90. Then, the Cast_Vote_Record table in the new Adjudication database contained 10 records for these ballots (see Reference 6 for a list of these records). When the new Adjudication database was created, no records from Batch 4924 were copied into the new database. The Adjudication table contained 10 records for manual Adjudication history for the 10 ballots which were manually adjudicated. Batch 4924 no longer available to the Mesa County clerks, and the original voter intent of these ballots is unknown.

In contrast, Batch 4926 is recorded in the original Adjudication database as being created at 4:12:23 PM on October 20. Batch 4926 contained 99 ballots and was also scanned by Sebastian 33. Fourteen of these ballots were

subsequently manually adjudicated. The ballot numbers in the batch which were manually adjudicated were 3, 10, 11, 21, 22, 41, 56, 65, 66, 75, 76, 87, and 98. 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 4926 was copied into the new database. The Batch_Manifest table contained 99 records. And there were 14 records in the Adjudication table. However, only 9 of the batch 4926 ballots (8 less than the first time these ballots were adjudicated) had a record of manual adjudication. The ballots which were adjudicated the "individual ballot numbers were 3, 10, 11, 21, 22, 41, 56, 65, 66, 75, 76, 87, and 98." This proof, the votes recorded from at least three 8 ballots and possibly all 99 ballots in Batch 4926 were deleted from the original database, and then, when replacing the votes which were already in the database from Batch 4926, Adjudication history for the 14 ballots which were manually adjudicated was copied into the Mesa County clerks, and the original voter intent of these ballots is unknown.

The expected behavior in the new Adjudication database (batch 1 and ballots 97 through 101) 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).

October 21, 2020, shortly after 2:24 PM

At this point, as reported by Mesa County election officials, some Mesa County employees noticed that the Adjudication table was empty, and that votes 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, the Adjudication table was empty, and votes were copied and reprocessed, there were outstanding votes from the last set of batches scanned before the event. As some of these ballots were sent to adjudication, the Adjudication table in the new database was empty, and adjudication where the same ballot was in the manual adjudication process twice.

This caused confusion among the election staff who were assigned the duty of adjudicating ballots. Because the votes had already been recorded, they were marked "cast" in the Adjudication table, which is displayed by the Dominion system and is used by the election clerks to track the overall adjudication process, did not show up in the Adjudication queue. Some of the ballots were adjudicated twice, and, in some cases, to attempt adjudicate manually adjudication of the same ballot with the same unsatisfactory result.

According to several Mesa County election officials, DVS support was contacted at approximately 4PM on the 21st of October, and while the support representative was able to resolve the issue, he was not able to explain why the issue caused some afterwords. The issue that DVS may have performed or caused to be performed an operation unknown to Mesa County officials that caused the original Adjudication table to be deleted and then uploaded after the constructed database was created.

(For DVS statistics which were processed before Batches 1 and 83 through 2671, see Appendix B, which lists the records in the new Adjudication database. However, DVS software inserted 2,168 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 inserted only 990 ballots for manual adjudication.)

The same ballots run through the same hardware and evaluated by the same software should have had the same results manual adjudication, but they did not. This leads to the logical critical conclusion that all the ballots in the batches processed after the database copy were the same and had the same ballots contained 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 as, or even resemble, the chain of custody votes been broken for these votes in the database.

Over 56 ballots which were not duplicated in the new Adjudication database must also be seen as suspect, as their chain of custody has also been broken so that there is no way of knowing if the votes recorded in the new Adjudication database in case at the end of the election. It is impossible to know the adjudication status of a ballot in any of the 56 batches would be unable to do so. All this information about these batches exists in the new Adjudication database only.

Thus, all 20,931 ballot records processed before 2:24 PM on October 21, 2020, comprising over 20% of the County's total over the entire election, cannot be verified and should not have been counted.

III. Evidence of Ballot Manipulation - April 2021 Grand Junction Municipal Election

Our analysis shows a nearly identical manipulation of the ballots and batches 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 Officials began processing ballots in the 2021 Grand Junction Municipal Election.

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, 68 batches containing 1,569 ballots were run through the Dominion Adjudication module to resolve ballots in unusual adjudicating and assessing of votes 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 68, and other tables with a record each batch. These which were related the Microsoft Adjudication (JDB in Jolad) have the proper batch records indicating the normal adjudication steps occurred.

March 30, 2021, 2:58 PM

According to the data contained in the DVS server, new Adjudication and Adjudication database were created and uploaded to the server, and the uploaded database for the election. As in the circumstance previously described in the early voting period for the November 2020 election, these two databases contained no data.

See Appendix D for a list of all commands executed prior to and after the database was created. The commands show that there was no indication of the timeline of the effecting the new database and copying the batch and load sequence.

It is important to note that this unauthorized procedure copied the records of the uploaded batches of ballots, indicating that they had not adjudicated, as

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

Figure 67 of Bartosz Wojciech's Mesa County Elections Database, Sorted by Load Order

ballot_type	ballot_id	batch_id	ballot_sequence	scanner	ballot_type	ballot_id	batch_id	ballot_sequence	scanner
2	2	1	1	1	2	2	1	1	1
2	3	1	2	1	2	3	1	2	1
2	4	1	3	1	2	4	1	3	1
2	5	1	4	1	2	5	1	4	1
2	6	1	5	1	2	6	1	5	1
2	7	1	6	1	2	7	1	6	1
2	8	1	7	1	2	8	1	7	1
2	9	1	8	1	2	9	1	8	1
2	10	1	9	1	2	10	1	9	1
2	11	1	10	1	2	11	1	10	1
2	12	1	11	1	2	12	1	11	1
2	13	1	12	1	2	13	1	12	1
2	14	1	13	1	2	14	1	13	1
2	15	1	14	1	2	15	1	14	1
2	16	1	15	1	2	16	1	15	1
2	17	1	16	1	2	17	1	16	1
2	18	1	17	1	2	18	1	17	1
2	19	1	18	1	2	19	1	18	1
2	20	1	19	1	2	20	1	19	1
2	21	1	20	1	2	21	1	20	1
2	22	1	21	1	2	22	1	21	1
2	23	1	22	1	2	23	1	22	1
2	24	1	23	1	2	24	1	23	1
2	25	1	24	1	2	25	1	24	1
2	26	1	25	1	2	26	1	25	1
2	27	1	26	1	2	27	1	26	1
2	28	1	27	1	2	28	1	27	1
2	29	1	28	1	2	29	1	28	1
2	30	1	29	1	2	30	1	29	1
2	31	1	30	1	2	31	1	30	1
2	32	1	31	1	2	32	1	31	1
2	33	1	32	1	2	33	1	32	1
2	34	1	33	1	2	34	1	33	1
2	35	1	34	1	2	35	1	34	1
2	36	1	35	1	2	36	1	35	1
2	37	1	36	1	2	37	1	36	1
2	38	1	37	1	2	38	1	37	1
2	39	1	38	1	2	39	1	38	1
2	40	1	39	1	2	40	1	39	1
2	41	1	40	1	2	41	1	40	1
2	42	1	41	1	2	42	1	41	1
2	43	1	42	1	2	43	1	42	1
2	44	1	43	1	2	44	1	43	1
2	45	1	44	1	2	45	1	44	1
2	46	1	45	1	2	46	1	45	1
2	47	1	46	1	2	47	1	46	1
2	48	1	47	1	2	48	1	47	1
2	49	1	48	1	2	49	1	48	1
2	50	1	49	1	2	50	1	49	1
2	51	1	50	1	2	51	1	50	1
2	52	1	51	1	2	52	1	51	1
2	53	1	52	1	2	53	1	52	1
2	54	1	53	1	2	54	1	53	1
2	55	1	54	1	2	55	1	54	1
2	56	1	55	1	2	56	1	55	1
2	57	1	56	1	2	57	1	56	1
2	58	1	57	1	2	58	1	57	1
2	59	1	58	1	2	59	1	58	1
2	60	1	59	1	2	60	1	59	1
2	61	1	60	1	2	61	1	60	1
2	62	1	61	1	2	62	1	61	1
2	63	1	62	1	2	63	1	62	1
2	64	1	63	1	2	64	1	63	1
2	65	1	64	1	2	65	1	64	1
2	66	1	65	1	2	66	1	65	1
2	67	1	66	1	2	67	1	66	1
2	68	1	67	1	2	68	1	67	1
2	69	1	68	1	2	69	1	68	1
2	70	1	69	1	2	70	1	69	1
2	71	1	70	1	2	71	1	70	1
2	72	1	71	1	2	72	1	71	1
2	73	1	72	1	2	73	1	72	1
2	74	1	73	1	2	74	1	73	1
2	75	1	74	1	2	75	1	74	1
2	76	1	75	1	2	76	1	75	1
2	77	1	76	1	2	77	1	76	1
2	78	1	77	1	2	78	1	77	1
2	79	1	78	1	2	79	1	78	1
2	80	1	79	1	2	80	1	79	1
2	81	1	80	1	2	81	1	80	1
2	82	1	81	1	2	82	1	81	1
2	83	1	82	1	2	83	1	82	1
2	84	1	83	1	2	84	1	83	1
2	85	1	84	1	2	85	1	84	1
2	86	1	85	1	2	86	1	85	1
2	87	1	86	1	2	87	1	86	1
2	88	1	87	1	2	88	1	87	1
2	89	1	88	1	2	89	1	88	1
2	90	1	89	1	2	90	1	89	1
2	91	1	90	1	2	91	1	90	1
2	92	1	91	1	2	92	1	91	1
2	93	1	92	1	2	93	1	92	1
2	94	1	93	1	2	94	1	93	1
2	95	1	94	1	2	95	1	94	1
2	96	1	95	1	2	96	1	95	1
2	97	1	96	1	2	97	1	96	1
2	98	1	97	1	2	98	1	97	1
2	99	1	98	1	2	99	1	98	1
2	100	1	99	1	2	100	1	99	1

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

Figure 68 of Bartosz Wojciech's Mesa County Elections Database, Sorted by Creation Time

ballot_type	ballot_id	batch_id	ballot_sequence	scanner	ballot_type	ballot_id	batch_id	ballot_sequence	scanner
2	2	1	1	1	2	2	1	1	1
2	3	1	2	1	2	3	1	2	1
2	4	1	3	1	2	4	1	3	1
2	5	1	4	1	2	5	1	4	1
2	6	1	5	1	2	6	1	5	1
2	7	1	6	1	2	7	1	6	1
2	8	1	7	1	2	8	1	7	1
2	9	1	8	1	2	9	1	8	1
2	10	1	9	1	2	10	1	9	1
2	11	1	10	1	2	11	1	10	1
2	12	1	11	1	2	12	1	11	1
2	13	1	12	1	2	13	1	12	1
2	14	1	13	1	2	14	1	13	1
2	15	1	14	1	2	15	1	14	1
2	16	1	15	1	2	16	1	15	1
2	17	1	16	1	2	17	1	16	1
2	18	1	17	1	2	18	1	17	1
2	19	1	18	1	2	19	1	18	1
2	20	1	19	1	2	20	1	19	1
2	21	1	20	1	2	21	1	20	1
2	22	1	21	1	2	22	1	21	1
2	23	1	22	1	2	23	1	22	1
2	24	1	23	1	2	24	1	23	1
2	25	1	24	1	2	25	1	24	1
2	26	1	25	1	2	26	1	25	1
2	27	1	26	1	2	27	1	26	1
2	28	1	27	1	2	28	1	27	1
2	29	1	28	1	2	29	1	28	1
2	30	1	29	1	2	30	1	29	1
2	31	1	30	1	2	31	1	30	1
2	32	1	31	1	2	32	1	31	1
2	33	1	32	1	2	33	1	32	1
2	34	1	33	1	2	34	1	33	1
2	35	1	34	1	2	35	1	34	1
2	36	1	35	1	2	36	1	35	1
2	37	1	36	1	2	37	1	36	1
2	38	1	37	1	2	38	1	37	1
2	39	1	38	1	2	39	1	38	1
2	40	1	39	1	2	40	1	39	1
2	41	1	40	1	2	41	1	40	1
2	42	1	41	1	2	42	1	41	1
2	43	1	42	1	2	43	1	42	1
2	44	1	43	1	2	44	1	43	1
2	45	1	44	1	2	45	1	44	1
2	46	1	45	1	2	46	1	45	1
2	47	1	46	1	2	47	1	46	1
2	48	1	47	1	2	48	1	47	1
2	49	1	48	1	2	49	1	48	1
2	50	1	49	1	2	50	1	49	1
2	51	1	50	1	2	51	1	50	1
2	52	1	51	1	2	52	1	51	1
2	53	1	52	1	2	53	1	52	1
2	54	1	53	1	2	54	1	53	1
2	55	1	54	1	2	55	1	54	1
2	56	1	55	1	2	56	1	55	1
2	57	1	56	1	2	57	1	56	1
2	58	1	57	1	2	58	1	57	1
2	59	1	58	1	2	59	1	58	1
2	60	1	59	1	2	60	1	59	1
2	61	1	60	1	2	61	1	60	1
2	62	1	61	1	2	62	1	61	1
2	63	1	62	1	2	63	1	62	1
2	64	1	63	1	2	64	1	63	1
2	65	1	64	1	2	65	1	64	1
2	66	1	65	1	2	66	1	65	1
2	67	1	66	1	2	67	1	66	1
2	68	1	67	1	2	68	1	67	1
2	69	1	68	1	2	69	1	68	1
2	70	1	69	1	2	70	1	69	1
2	71	1	70	1	2	71	1	70	1
2	72	1	71	1	2	72	1	71	1
2	73	1	72	1	2	73	1	72	1
2	74	1	73	1	2	74	1	73	1
2	75	1	74	1	2	75	1	74	1
2	76	1	75	1	2	76	1	75	1
2	77	1	76	1	2	77	1	76	1
2	78	1	77	1	2	78	1	77	1
2	79	1	78	1	2	79	1	78	1
2	80	1	79	1	2	80	1	79	1
2	81	1	80	1	2	81	1	80	1
2	82	1	81	1	2	82	1	81	1
2	83	1	82	1	2	83	1	82	1
2	84	1	83	1	2	84	1	83	1
2	85	1	84	1	2	85	1	84	1
2	86	1	85	1	2	86	1	85	1
2	87	1	86	1	2	87	1	86	1
2	88	1	87	1	2	88	1	87	1
2	89	1	88	1	2	89	1	88	1
2	90	1	89	1	2	90	1	89	1
2	91	1	90	1	2	91	1	90	1
2	92	1	91	1	2	92	1	91	1
2	93	1	92	1	2	93	1	92	1
2	94	1	93	1	2	94	1	93	1
2	95	1	94	1	2	95	1	94	1
2	96	1	95	1	2	96	1	95	1
2	97	1	96	1	2	97	1	96	1
2	98	1	97	1	2	98	1	97	1
2	99	1

However, as noted in the section above labeled "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.

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.

CONCLUSIONS

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 county-level 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).

APPENDIX A – BATCHES - ORIGINAL ADJUDICATION DATABASE (WITH TIME BETWEEN BATCHES) – NOVEMBER 2020 ELECTION

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

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

4	2048	85	10/19/2020	5:22:22 PM	0:03:51	99
4	2049	86	10/20/2020	10:05:36 AM	16:43:13	100
4	2050	87	10/20/2020	10:07:25 AM	0:01:49	100
4	2051	88	10/20/2020	10:10:30 AM	0:03:05	99
4	2052	89	10/20/2020	10:13:35 AM	0:03:05	100
4	2053	90	10/20/2020	10:17:26 AM	0:03:51	100
4	2054	91	10/20/2020	10:29:33 AM	0:12:06	100
4	2055	92	10/20/2020	10:32:37 AM	0:03:05	100
4	2056	93	10/20/2020	10:40:29 AM	0:07:51	100
4	2057	94	10/20/2020	10:43:33 AM	0:03:05	100
4	2058	95	10/20/2020	10:50:38 AM	0:07:05	99
4	2059	96	10/20/2020	10:53:28 AM	0:02:49	100
4	2060	97	10/20/2020	10:56:32 AM	0:03:05	100
4	2061	98	10/20/2020	10:59:37 AM	0:03:04	100
4	2062	99	10/20/2020	11:02:27 AM	0:02:50	98
4	2063	100	10/20/2020	11:05:31 AM	0:03:04	100
4	2064	101	10/20/2020	11:08:36 AM	0:03:05	100
4	2065	102	10/20/2020	11:11:26 AM	0:02:50	100
4	2066	103	10/20/2020	11:16:31 AM	0:05:05	100
4	2067	104	10/20/2020	11:19:35 AM	0:03:05	100
4	2068	105	10/20/2020	11:22:40 AM	0:03:05	100
4	2069	106	10/20/2020	11:26:29 AM	0:03:50	99
4	2070	107	10/20/2020	11:30:34 AM	0:04:05	94
4	2071	108	10/20/2020	11:33:38 AM	0:03:04	100
4	2072	109	10/20/2020	11:38:28 AM	0:04:50	100
4	2073	110	10/20/2020	11:43:33 AM	0:05:05	100
10	4038	111	10/20/2020	11:43:37 AM	0:00:04	99
10	4039	112	10/20/2020	11:48:28 AM	0:04:50	100
10	4040	113	10/20/2020	11:50:32 AM	0:02:04	99
4	2074	114	10/20/2020	11:52:36 AM	0:02:04	99
10	4041	115	10/20/2020	11:55:28 AM	0:02:51	100
4	2075	116	10/20/2020	11:56:32 AM	0:01:04	99
10	4042	117	10/20/2020	11:58:36 AM	0:02:04	100
10	4043	118	10/20/2020	12:02:26 PM	0:03:50	100
10	4044	119	10/20/2020	12:05:31 PM	0:03:05	100
4	2076	120	10/20/2020	12:07:35 PM	0:02:04	100
4	2077	121	10/20/2020	12:13:40 PM	0:06:05	100
10	4045	122	10/20/2020	12:13:44 PM	0:00:04	100
4	2078	123	10/20/2020	12:16:34 PM	0:02:50	99
10	4046	124	10/20/2020	12:16:38 PM	0:00:04	100
4	2079	125	10/20/2020	12:19:28 PM	0:02:50	99
10	4047	126	10/20/2020	12:19:46 PM	0:00:19	99
4	2080	127	10/20/2020	12:22:36 PM	0:02:49	99
10	4048	128	10/20/2020	12:22:40 PM	0:00:04	100
4	2081	129	10/20/2020	12:25:30 PM	0:02:50	100

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

7	3012	175	10/20/2020	3:07:47 PM	0:00:19	100
7	3013	176	10/20/2020	3:10:36 PM	0:02:50	98
4	2106	177	10/20/2020	3:12:41 PM	0:02:04	95
7	3014	178	10/20/2020	3:13:30 PM	0:00:49	100
4	2107	179	10/20/2020	3:21:35 PM	0:08:06	95
7	3015	180	10/20/2020	3:23:39 PM	0:02:04	94
4	2108	181	10/20/2020	3:25:30 PM	0:01:50	100
7	3016	182	10/20/2020	3:25:50 PM	0:00:20	100
7	3017	183	10/20/2020	3:29:39 PM	0:03:50	100
4	2109	184	10/20/2020	3:30:29 PM	0:00:50	94
7	3018	185	10/20/2020	3:35:34 PM	0:05:05	97
7	3019	186	10/20/2020	3:59:43 PM	0:24:09	95
2	1001	187	10/20/2020	4:02:32 PM	0:02:49	75
7	3020	188	10/20/2020	4:03:35 PM	0:01:03	99
7	3021	189	10/20/2020	4:06:40 PM	0:03:04	100
7	3022	190	10/20/2020	4:10:30 PM	0:03:50	99
7	3023	191	10/20/2020	4:13:34 PM	0:03:05	100
7	3024	192	10/20/2020	4:22:40 PM	0:09:06	99
4	2110	193	10/20/2020	4:24:30 PM	0:01:50	98
7	3025	194	10/20/2020	4:26:34 PM	0:02:04	100
4	2111	195	10/20/2020	4:28:38 PM	0:02:04	100
7	3026	196	10/20/2020	4:29:30 PM	0:00:51	100
7	3027	197	10/20/2020	4:34:35 PM	0:05:05	100
7	3028	198	10/20/2020	4:38:39 PM	0:04:05	100
2	1002	199	10/20/2020	4:46:29 PM	0:07:50	21
2	1003	200	10/20/2020	4:56:34 PM	0:10:04	75
2	1004	201	10/20/2020	4:57:37 PM	0:01:03	80
4	2112	202	10/21/2020	9:05:41 AM	16:08:04	99
4	2113	203	10/21/2020	9:07:45 AM	0:02:04	95
4	2114	204	10/21/2020	9:10:36 AM	0:02:50	98
4	2115	205	10/21/2020	9:14:40 AM	0:04:05	96
4	2116	206	10/21/2020	9:18:45 AM	0:04:05	99
4	2117	207	10/21/2020	9:20:34 AM	0:01:49	100
4	2118	208	10/21/2020	9:22:38 AM	0:02:04	100
4	2119	209	10/21/2020	9:28:44 AM	0:06:05	100
4	2120	210	10/21/2020	9:33:35 AM	0:04:51	100
4	2121	211	10/21/2020	9:36:39 AM	0:03:04	100
4	2122	212	10/21/2020	9:39:44 AM	0:03:05	100
4	2123	213	10/21/2020	9:42:35 AM	0:02:51	100
2	1005	214	10/21/2020	9:50:40 AM	0:08:05	68
2	1006	215	10/21/2020	9:54:43 AM	0:04:03	37
2	1007	216	10/21/2020	9:56:45 AM	0:02:02	76
2	1008	217	10/21/2020	10:14:37 AM	0:17:51	14
10	4059	218	10/21/2020	10:16:39 AM	0:02:02	100
10	4060	219	10/21/2020	10:25:45 AM	0:09:06	100

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

7	3034	265	10/21/2020	2:08:46 PM	0:03:05	100
7	3035	266	10/21/2020	2:11:35 PM	0:02:50	100
7	3036	267	10/21/2020	2:14:40 PM	0:03:05	99

APPENDIX B – BATCHES - NEW ADJUDICATION DATABASE (WITH TIME BETWEEN BATCHES) – NOVEMBER 2020 ELECTION

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

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

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

7	3020	188	188	10/21/2020	2:29:22 PM	0:00:03	99
7	3021	189	189	10/21/2020	2:29:26 PM	0:00:04	99
7	3022	190	190	10/21/2020	2:29:31 PM	0:00:04	99
7	3023	191	191	10/21/2020	2:29:35 PM	0:00:04	100
7	3024	192	192	10/21/2020	2:29:40 PM	0:00:05	99
4	2110	193	193	10/21/2020	2:29:44 PM	0:00:04	98
7	3025	194	194	10/21/2020	2:29:48 PM	0:00:05	100
4	2111	195	195	10/21/2020	2:29:53 PM	0:00:04	100
7	3026	196	196	10/21/2020	2:29:57 PM	0:00:04	100
7	3027	197	197	10/21/2020	2:30:01 PM	0:00:04	100
7	3028	198	198	10/21/2020	2:30:05 PM	0:00:04	100
2	1002	199	199	10/21/2020	2:30:09 PM	0:00:04	21
2	1003	200	200	10/21/2020	2:30:10 PM	0:00:02	75
2	1004	201	201	10/21/2020	2:30:14 PM	0:00:04	80
4	2112	202	202	10/21/2020	2:30:17 PM	0:00:03	99
4	2113	203	203	10/21/2020	2:30:22 PM	0:00:04	95
4	2114	204	204	10/21/2020	2:30:25 PM	0:00:04	98
4	2115	205	205	10/21/2020	2:30:29 PM	0:00:04	96
4	2116	206	206	10/21/2020	2:30:34 PM	0:00:04	99
4	2117	207	207	10/21/2020	2:30:38 PM	0:00:04	100
4	2118	208	208	10/21/2020	2:30:42 PM	0:00:04	100
4	2119	209	209	10/21/2020	2:30:46 PM	0:00:04	100
4	2120	210	210	10/21/2020	2:30:50 PM	0:00:04	100
4	2121	211	211	10/21/2020	2:30:54 PM	0:00:04	100
4	2122	212	212	10/21/2020	2:30:59 PM	0:00:04	100
4	2123	213	213	10/21/2020	2:31:03 PM	0:00:04	100
2	1005	214	214	10/21/2020	2:31:06 PM	0:00:04	68
2	1006	215	215	10/21/2020	2:31:09 PM	0:00:03	37
2	1007	216	216	10/21/2020	2:31:11 PM	0:00:02	76
2	1008	217	217	10/21/2020	2:31:14 PM	0:00:03	14
10	4059	218	218	10/21/2020	2:31:15 PM	0:00:01	100
10	4060	219	219	10/21/2020	2:31:20 PM	0:00:04	100
10	4061	220	220	10/21/2020	2:31:24 PM	0:00:04	100
10	4062	221	221	10/21/2020	2:31:28 PM	0:00:04	98
10	4063	222	222	10/21/2020	2:31:32 PM	0:00:04	100
10	4064	223	223	10/21/2020	2:31:36 PM	0:00:04	100
10	4065	224	224	10/21/2020	2:31:40 PM	0:00:04	100
10	4066	225	225	10/21/2020	2:31:44 PM	0:00:04	100
10	4067	226	226	10/21/2020	2:31:49 PM	0:00:04	99
10	4068	227	227	10/21/2020	2:31:53 PM	0:00:04	100
10	4069	228	228	10/21/2020	2:31:57 PM	0:00:04	100
10	4070	229	229	10/21/2020	2:32:02 PM	0:00:04	100
10	4071	230	230	10/21/2020	2:32:06 PM	0:00:04	99
10	4072	231	231	10/21/2020	2:32:10 PM	0:00:04	100
10	4073	232	232	10/21/2020	2:32:15 PM	0:00:05	100

10	4074	233	233	10/21/2020	2:32:19 PM	0:00:04	100
10	4075	234	234	10/21/2020	2:32:23 PM	0:00:04	97
10	4076	235	235	10/21/2020	2:32:27 PM	0:00:04	100
10	4077	236	236	10/21/2020	2:32:32 PM	0:00:05	100
10	4078	237	237	10/21/2020	2:32:36 PM	0:00:04	100
10	4079	238	238	10/21/2020	2:32:40 PM	0:00:04	100
10	4080	239	239	10/21/2020	2:32:44 PM	0:00:04	100
10	4081	240	240	10/21/2020	2:32:49 PM	0:00:04	101
10	4082	241	241	10/21/2020	2:32:53 PM	0:00:04	100
10	4083	242	242	10/21/2020	2:32:57 PM	0:00:04	100
10	4084	243	243	10/21/2020	2:33:02 PM	0:00:05	100
10	4085	244	244	10/21/2020	2:33:06 PM	0:00:04	100
10	4086	245	245	10/21/2020	2:33:11 PM	0:00:05	98
10	4087	246	246	10/21/2020	2:33:15 PM	0:00:04	98
10	4088	247	247	10/21/2020	2:33:19 PM	0:00:04	95
10	4089	248	248	10/21/2020	2:33:23 PM	0:00:04	97
10	4090	249	249	10/21/2020	2:33:27 PM	0:00:05	98
10	4091	250	250	10/21/2020	2:33:31 PM	0:00:04	95
10	4092	251	251	10/21/2020	2:33:35 PM	0:00:04	98
10	4093	252	252	10/21/2020	2:33:39 PM	0:00:05	98
10	4094	253	253	10/21/2020	2:33:43 PM	0:00:04	95
10	4095	254	254	10/21/2020	2:33:47 PM	0:00:04	97
10	4096	255	255	10/21/2020	2:33:51 PM	0:00:04	96
10	4097	256	256	10/21/2020	2:33:55 PM	0:00:04	95
10	4098	257	257	10/21/2020	2:33:59 PM	0:00:04	100
10	4099	258	258	10/21/2020	2:34:03 PM	0:00:04	63
10	4100	259	259	10/21/2020	2:34:06 PM	0:00:03	100
7	3029	260	260	10/21/2020	2:34:10 PM	0:00:04	100
7	3030	261	261	10/21/2020	2:34:14 PM	0:00:04	100
7	3031	262	262	10/21/2020	2:34:18 PM	0:00:04	100
7	3032	263	263	10/21/2020	2:34:22 PM	0:00:04	100
7	3033	264	264	10/21/2020	2:34:26 PM	0:00:04	100
7	3034	265	265	10/21/2020	2:34:30 PM	0:00:04	100
7	3035	266	266	10/21/2020	2:34:34 PM	0:00:04	100
7	3036	267	267	10/21/2020	2:34:38 PM	0:00:04	99
7	3037	268	268	10/21/2020	2:34:42 PM	0:00:04	100
7	3038	269	269	10/21/2020	2:39:47 PM	0:05:05	100
7	3039	270	270	10/21/2020	2:45:38 PM	0:05:50	100
7	3040	271	271	10/21/2020	2:48:42 PM	0:03:05	99
7	3041	272	272	10/21/2020	2:51:47 PM	0:03:05	100
7	3042	273	273	10/21/2020	2:55:39 PM	0:03:52	100
7	3043	274	274	10/21/2020	3:03:44 PM	0:08:06	99
7	3044	275	275	10/21/2020	3:08:37 PM	0:04:52	100
7	3045	276	276	10/21/2020	3:15:42 PM	0:07:05	100
7	3046	277	277	10/21/2020	3:25:48 PM	0:10:06	99

7	3047	278	278	10/21/2020	3:30:39 PM	0:04:51	100
7	3048	279	279	10/21/2020	3:33:43 PM	0:03:05	100
7	3049	280	280	10/21/2020	3:39:50 PM	0:06:06	99
7	3050	281	281	10/21/2020	3:42:39 PM	0:02:49	98
7	3051	282	282	10/21/2020	3:45:43 PM	0:03:04	99
7	3052	283	283	10/21/2020	3:49:48 PM	0:04:05	100
7	3053	284	284	10/21/2020	3:52:38 PM	0:02:49	99
7	3054	285	285	10/21/2020	3:56:43 PM	0:04:05	100
7	3055	286	286	10/21/2020	3:58:47 PM	0:02:04	100
4	2124	287	287	10/21/2020	4:06:38 PM	0:07:52	100
4	2125	288	288	10/21/2020	4:08:43 PM	0:02:04	100
4	2126	289	289	10/21/2020	4:11:48 PM	0:03:05	100
4	2127	290	290	10/21/2020	4:19:38 PM	0:07:51	98
4	2128	291	291	10/21/2020	4:23:43 PM	0:04:05	100
4	2129	292	292	10/21/2020	4:27:48 PM	0:04:05	100
4	2130	293	293	10/21/2020	4:30:37 PM	0:02:50	100
4	2131	294	294	10/21/2020	4:35:42 PM	0:05:05	99
4	2132	295	295	10/21/2020	4:39:47 PM	0:04:05	100
4	2133	296	296	10/21/2020	4:44:37 PM	0:04:50	100
4	2134	297	297	10/21/2020	4:47:42 PM	0:03:05	99
4	2135	298	298	10/21/2020	4:51:47 PM	0:04:05	100
4	2136	299	299	10/21/2020	4:55:38 PM	0:03:51	100
4	2137	300	300	10/21/2020	5:00:42 PM	0:05:05	100
4	2138	301	301	10/21/2020	5:03:47 PM	0:03:04	100
4	2139	302	302	10/21/2020	5:06:36 PM	0:02:50	100

4	2140	303	303	10/21/2020	5:09:41 PM	0:03:04	98
4	2141	304	304	10/21/2020	5:12:45 PM	0:03:05	100
4	2142	305	305	10/21/2020	5:17:36 PM	0:04:50	100
4	2143	306	306	10/21/2020	5:24:41 PM	0:07:05	99
10	4101	307	307	10/22/2020	8:33:49 AM		100
10	4102	308	308	10/22/2020	8:41:55 AM	0:08:06	96
10	4103	309	309	10/22/2020	8:49:45 AM	0:07:50	98
4	2144	310	310	10/22/2020	8:50:50 AM	0:01:05	100
4	2145	311	311	10/22/2020	8:53:41 AM	0:02:51	100
10	4104	312	312	10/22/2020	8:56:45 AM	0:03:05	100
4	2146	313	313	10/22/2020	9:01:50 AM	0:05:05	99
4	2147	314	314	10/22/2020	9:08:43 AM	0:06:53	96
4	2148	315	315	10/22/2020	9:13:48 AM	0:05:05	100
10	4105	316	316	10/22/2020	9:14:52 AM	0:01:04	100
10	4106	317	317	10/22/2020	9:20:43 AM	0:05:51	100
4	2149	318	318	10/22/2020	9:21:47 AM	0:01:04	96
10	4107	319	319	10/22/2020	9:24:52 AM	0:03:04	100
4	2150	320	320	10/22/2020	9:29:41 AM	0:04:50	99
10	4108	321	321	10/22/2020	9:30:46 AM	0:01:04	100
4	2151	322	322	10/22/2020	9:32:50 AM	0:02:04	100

10	4109	323	323	10/22/2020	9:35:54 AM	0:03:05	100
4	2152	324	324	10/22/2020	9:39:44 AM	0:03:50	100
10	4110	325	325	10/22/2020	9:40:48 AM	0:01:04	100
4	2153	326	326	10/22/2020	9:43:53 AM	0:03:05	100
10	4111	327	327	10/22/2020	9:44:42 AM	0:00:50	100
4	2154	328	328	10/22/2020	9:46:47 AM	0:02:04	100
10	4112	329	329	10/22/2020	9:48:51 AM	0:02:04	100
4	2155	330	330	10/22/2020	9:52:41 AM	0:03:50	100
10	4113	331	331	10/22/2020	9:52:59 AM	0:00:18	100
4	2156	332	332	10/22/2020	9:55:48 AM	0:02:49	99
10	4114	333	333	10/22/2020	9:56:52 AM	0:01:04	100
4	2157	334	334	10/22/2020	9:58:41 AM	0:01:49	100
10	4115	335	335	10/22/2020	10:00:46 AM	0:02:04	100
4	2158	336	336	10/22/2020	10:01:50 AM	0:01:05	100
4	2159	337	337	10/22/2020	10:04:42 AM	0:02:52	100
4	2160	338	338	10/22/2020	10:09:47 AM	0:05:05	100
4	2161	339	339	10/22/2020	10:12:52 AM	0:03:05	100
4	2162	340	340	10/22/2020	10:15:42 AM	0:02:51	100
10	4116	341	341	10/22/2020	10:18:47 AM	0:03:05	99
4	2163	342	342	10/22/2020	10:20:51 AM	0:02:04	100
10	4117	343	343	10/22/2020	10:20:55 AM	0:00:04	100
10	4118	344	344	10/22/2020	10:24:45 AM	0:03:50	100
10	4119	345	345	10/22/2020	10:28:50 AM	0:04:05	100
4	2164	346	346	10/22/2020	10:31:54 AM	0:03:04	99
10	4120	347	347	10/22/2020	10:32:42 AM	0:00:48	100
10	4121	348	348	10/22/2020	10:36:46 AM	0:04:04	100
4	2165	349	349	10/22/2020	10:37:50 AM	0:01:04	92
10	4122	350	350	10/22/2020	10:41:42 AM	0:03:51	100
4	2166	351	351	10/22/2020	10:44:46 AM	0:03:05	95
10	4123	352	352	10/22/2020	10:46:51 AM	0:02:04	100
4	2167	353	353	10/22/2020	10:52:40 AM	0:05:50	46
4	2168	354	354	10/22/2020	10:57:44 AM	0:05:04	65
4	2169	355	355	10/22/2020	11:08:49 AM	0:11:05	85
4	2170	356	356	10/22/2020	11:09:53 AM	0:01:04	85
4	2171	357	357	10/22/2020	11:11:42 AM	0:01:49	78
2	1009	358	358	10/22/2020	11:21:47 AM	0:10:05	26
2	1010	359	359	10/22/2020	11:22:48 AM	0:01:02	66
2	1011	360	360	10/22/2020	11:26:52 AM	0:04:04	100
2	1012	361	361	10/22/2020	11:28:41 AM	0:01:49	31
4	2172	362	362	10/22/2020	12:22:41 PM	0:54:01	60
4	2173	363	363	10/22/2020	3:01:48 PM	2:39:07	100
4	2174	364	364	10/22/2020	3:07:53 PM	0:06:05	99
4	2175	365	365	10/22/2020	3:12:43 PM	0:04:50	100
4	2176	366	366	10/22/2020	3:16:48 PM	0:04:05	100
4	2177	367	367	10/22/2020	3:18:53 PM	0:02:04	100

4	2178	368	368	10/22/2020	3:21:44 PM	0:02:51	100
4	2179	369	369	10/22/2020	3:26:49 PM	0:05:05	100
4	2180	370	370	10/22/2020	3:31:54 PM	0:05:05	100
4	2181	371	371	10/22/2020	3:37:44 PM	0:05:51	99
4	2182	372	372	10/22/2020	3:40:49 PM	0:03:05	100
4	2183	373	373	10/22/2020	3:43:54 PM	0:03:05	100
4	2184	374	374	10/22/2020	3:46:44 PM	0:02:50	100
10	4124	375	375	10/22/2020	4:19:55 PM	0:33:11	99
10	4125	376	376	10/22/2020	4:35:48 PM	0:15:53	85
10	4126	377	377	10/22/2020	4:37:52 PM	0:02:04	87
10	4127	378	378	10/22/2020	4:39:56 PM	0:02:04	100
10	4128	379	379	10/22/2020	4:42:45 PM	0:02:50	100
10	4129	380	380	10/22/2020	4:45:50 PM	0:03:04	100
10	4130	381	381	10/22/2020	4:48:54 PM	0:03:05	100
10	4131	382	382	10/22/2020	4:54:45 PM	0:05:51	100
10	4132	383	383	10/22/2020	4:57:49 PM	0:03:05	100
4	2185	384	384	10/22/2020	5:03:54 PM	0:06:05	98
4	2186	385	385	10/22/2020	5:06:44 PM	0:02:50	100
4	2187	386	386	10/22/2020	5:13:50 PM	0:07:05	100
4	2188	387	387	10/22/2020	5:18:55 PM	0:05:05	100
4	2189	388	388	10/22/2020	5:21:45 PM	0:02:50	100
4	2190	389	389	10/22/2020	5:24:50 PM	0:03:05	100
4	2191	390	390	10/22/2020	5:31:55 PM	0:07:05	99
4	2192	391	391	10/22/2020	5:36:45 PM	0:04:50	88
4	2193	392	392	10/22/2020	5:40:49 PM	0:04:04	100
4	2194	393	393	10/22/2020	5:43:54 PM	0:03:05	100
4	2195	394	394	10/22/2020	5:46:44 PM	0:02:50	100
4	2196	395	395	10/22/2020	5:49:48 PM	0:03:04	100
4	2197	396	396	10/22/2020	6:01:54 PM	0:12:06	24
4	2198	397	397	10/26/2020	10:25:50 AM		100
4	2199	398	398	10/26/2020	10:27:54 AM	0:02:04	100
4	2200	399	399	10/26/2020	10:30:45 AM	0:02:51	100
10	4133	400	400	10/26/2020	10:32:49 AM	0:02:04	99
4	2201	401	401	10/26/2020	10:33:54 AM	0:01:05	100
10	4134	402	402	10/26/2020	10:36:44 AM	0:02:49	99
4	2202	403	403	10/26/2020	10:37:48 AM	0:01:04	99
10	4135	404	404	10/26/2020	10:40:52 AM	0:03:05	100
4	2203	405	405	10/26/2020	10:43:42 AM	0:02:50	100
10	4136	406	406	10/26/2020	10:44:46 AM	0:01:04	100
4	2204	407	407	10/26/2020	10:46:51 AM	0:02:04	100
10	4137	408	408	10/26/2020	10:48:41 AM	0:01:50	100
4	2205	409	409	10/26/2020	10:49:45 AM	0:01:04	100
10	4138	410	410	10/26/2020	10:51:50 AM	0:02:04	100
2	1013	411	411	10/26/2020	10:53:40 AM	0:01:50	66
10	4139	412	412	10/26/2020	10:55:44 AM	0:02:04	100

2	1014	413	413	10/26/2020	10:58:48 AM	0:03:04	59
10	4140	414	414	10/26/2020	10:58:51 AM	0:00:02	55
2	1015	415	415	10/26/2020	11:02:40 AM	0:03:49	57
2	1016	416	416	10/26/2020	11:04:44 AM	0:02:03	87
2	1017	417	417	10/26/2020	11:06:48 AM	0:02:04	95
2	1018	418	418	10/26/2020	11:09:52 AM	0:03:04	97
2	1019	419	419	10/26/2020	11:12:41 AM	0:02:49	43
10	4141	420	420	10/26/2020	1:13:55 PM	2:01:14	99
10	4142	421	421	10/26/2020	1:17:45 PM	0:03:50	99
10	4143	422	422	10/26/2020	1:24:50 PM	0:07:05	100
10	4144	423	423	10/26/2020	1:28:55 PM	0:04:05	100
10	4145	424	424	10/26/2020	1:31:44 PM	0:02:50	100
10	4146	425	425	10/26/2020	1:34:49 PM	0:03:05	100
10	4147	426	426	10/26/2020	1:41:54 PM	0:07:05	100
4	2206	427	427	10/26/2020	1:42:45 PM	0:00:51	98
10	4148	428	428	10/26/2020	1:45:50 PM	0:03:04	99
10	4149	429	429	10/26/2020	1:49:54 PM	0:04:05	100
10	4150	430	430	10/26/2020	1:53:44 PM	0:03:50	99
4	2207	431	431	10/26/2020	1:56:49 PM	0:03:05	99
4	2208	432	432	10/26/2020	1:59:53 PM	0:03:05	100
4	2209	433	433	10/26/2020	2:02:43 PM	0:02:50	99
4	2210	434	434	10/26/2020	2:05:49 PM	0:03:05	100
4	2211	435	435	10/26/2020	2:08:53 PM	0:03:05	100
10	4151	436	436	10/26/2020	2:27:47 PM	0:18:54	100
10	4152	437	437	10/26/2020	2:30:51 PM	0:03:05	99
10	4153	438	438	10/26/2020	2:34:44 PM	0:03:53	100
10	4154	439	439	10/26/2020	2:38:49 PM	0:04:05	99
10	4155	440	440	10/26/2020	2:41:53 PM	0:03:05	100
10	4156	441	441	10/26/2020	2:50:44 PM	0:08:51	96
10	4157	442	442	10/26/2020	2:53:49 PM	0:03:04	100
10	4158	443	443	10/26/2020	2:56:55 PM	0:03:07	100
10	4159	444	444	10/26/2020	3:00:46 PM	0:03:50	100
10	4160	445	445	10/26/2020	3:03:50 PM	0:03:05	100
7	3056	446	446	10/26/2020	3:12:56 PM	0:09:06	100
4	2212	447	447	10/26/2020	3:13:45 PM	0:00:49	99
7	3057	448	448	10/26/2020	3:15:50 PM	0:02:04	100
4	2213	449	449	10/26/2020	3:16:54 PM	0:01:04	100
4	2214	450	450	10/26/2020	3:19:43 PM	0:02:49	37
4	2215	451	451	10/26/2020	3:26:47 PM	0:07:04	99
4	2216	452	452	10/26/2020	4:40:52 PM	1:14:05	100
4	2217	453	453	10/26/2020	4:44:57 PM	0:04:05	100
4	2218	454	454	10/26/2020	4:48:46 PM	0:03:50	99
4	2219	455	455	10/26/2020	4:52:51 PM	0:04:05	100
4	2220	456	456	10/26/2020	4:54:56 PM	0:02:04	100
4	2221	457	457	10/26/2020	4:59:45 PM	0:04:50	100

4	2222	458	458	10/26/2020	5:03:50 PM	0:04:05	100
4	2223	459	459	10/26/2020	5:06:55 PM	0:03:05	100
4	2224	460	460	10/26/2020	5:09:45 PM	0:02:50	100
4	2225	461	461	10/26/2020	5:12:49 PM	0:03:05	100
4	2226	462	462	10/26/2020	5:15:54 PM	0:03:04	98
4	2227	463	463	10/26/2020	5:21:44 PM	0:05:50	100
4	2228	464	464	10/26/2020	5:30:50 PM	0:09:06	100
4	2229	465	465	10/27/2020	12:58:54 PM		100
4	2230	466	466	10/27/2020	1:04:00 PM	0:05:05	98
10	4161	467	467	10/27/2020	1:06:04 PM	0:02:04	100
4	2231	468	468	10/27/2020	1:07:53 PM	0:01:49	100
10	4162	469	469	10/27/2020	1:08:58 PM	0:01:05	100
4	2232	470	470	10/27/2020	1:12:02 PM	0:03:05	100
10	4163	471	471	10/27/2020	1:12:52 PM	0:00:49	99
4	2233	472	472	10/27/2020	1:14:56 PM	0:02:04	100
10	4164	473	473	10/27/2020	1:16:00 PM	0:01:04	82
4	2234	474	474	10/27/2020	1:19:04 PM	0:03:04	100
10	4165	475	475	10/27/2020	1:19:53 PM	0:00:49	99
4	2235	476	476	10/27/2020	1:21:57 PM	0:02:04	100
10	4166	477	477	10/27/2020	1:23:02 PM	0:01:04	100
4	2236	478	478	10/27/2020	1:24:51 PM	0:01:49	99
2	1020	479	479	10/27/2020	1:30:56 PM	0:06:06	84
2	1021	480	480	10/27/2020	1:35:00 PM	0:04:04	34
2	1022	481	481	10/27/2020	1:38:03 PM	0:03:02	74
2	1023	482	482	10/27/2020	1:38:51 PM	0:00:49	71
4	2237	483	483	10/27/2020	1:49:57 PM	0:11:05	100
4	2238	484	484	10/27/2020	1:53:01 PM	0:03:05	100
4	2239	485	485	10/27/2020	1:55:52 PM	0:02:50	100
4	2240	486	486	10/27/2020	2:01:57 PM	0:06:06	98
4	2241	487	487	10/27/2020	2:06:02 PM	0:04:05	100
4	2242	488	488	10/27/2020	2:07:51 PM	0:01:49	100
4	2243	489	489	10/27/2020	2:14:57 PM	0:07:05	100
4	2244	490	490	10/27/2020	2:18:01 PM	0:03:05	100
4	2245	491	491	10/27/2020	2:20:51 PM	0:02:50	100
4	2246	492	492	10/27/2020	2:24:56 PM	0:04:05	100
4	2247	493	493	10/27/2020	2:29:01 PM	0:04:05	96
10	4167	494	494	10/27/2020	2:29:50 PM	0:00:49	68
4	2248	495	495	10/27/2020	2:30:53 PM	0:01:03	99
10	4168	496	496	10/27/2020	2:31:57 PM	0:01:04	100
4	2249	497	497	10/27/2020	2:35:02 PM	0:03:05	100
10	4169	498	498	10/27/2020	2:35:06 PM	0:00:04	100
4	2250	499	499	10/27/2020	2:38:56 PM	0:03:50	100
10	4170	500	500	10/27/2020	2:41:00 PM	0:02:04	99
4	2251	501	501	10/27/2020	2:42:04 PM	0:01:04	100
10	4171	502	502	10/27/2020	2:44:53 PM	0:02:50	100

4	2252	503	503	10/27/2020	2:45:58 PM	0:01:04	100
10	4172	504	504	10/27/2020	2:48:02 PM	0:02:04	100
4	2253	505	505	10/27/2020	2:49:53 PM	0:01:51	100
4	2254	506	506	10/27/2020	2:54:58 PM	0:05:05	98
4	2255	507	507	10/27/2020	2:59:02 PM	0:04:05	100
4	2256	508	508	10/27/2020	3:01:52 PM	0:02:50	100
4	2257	509	509	10/27/2020	3:08:57 PM	0:07:05	100
4	2258	510	510	10/27/2020	3:16:03 PM	0:07:05	100
4	2259	511	511	10/27/2020	3:22:54 PM	0:06:51	100
4	2260	512	512	10/27/2020	3:25:58 PM	0:03:05	100
4	2261	513	513	10/27/2020	3:30:03 PM	0:04:05	100
10	4173	514	514	10/27/2020	3:31:52 PM	0:01:49	100
10	4174	515	515	10/27/2020	3:37:58 PM	0:06:05	99
4	2262	516	516	10/27/2020	3:39:02 PM	0:01:04	100
4	2263	517	517	10/27/2020	3:44:53 PM	0:05:51	100
10	4175	518	518	10/27/2020	3:45:11 PM	0:00:19	100
10	4176	519	519	10/27/2020	4:06:05 PM	0:20:53	98
10	4177	520	520	10/27/2020	4:09:54 PM	0:03:50	98
10	4178	521	521	10/27/2020	4:13:59 PM	0:04:05	100
10	4179	522	522	10/27/2020	4:18:04 PM	0:04:05	100
10	4180	523	523	10/27/2020	4:21:54 PM	0:03:50	100
10	4181	524	524	10/27/2020	4:25:59 PM	0:04:05	100
4	2264	525	525	10/27/2020	4:27:02 PM	0:01:04	100
10	4182	526	526	10/27/2020	4:28:52 PM	0:01:49	100
4	2265	527	527	10/27/2020	4:29:56 PM	0:01:04	100
10	4183	528	528	10/27/2020	4:32:00 PM	0:02:04	100
4	2266	529	529	10/27/2020	4:32:52 PM	0:00:52	100
10	4184	530	530	10/27/2020	4:35:57 PM	0:03:05	98
4	2267	531	531	10/27/2020	4:42:02 PM	0:06:05	99
4	2268	532	532	10/27/2020	4:49:53 PM	0:07:51	99
4	2269	533	533	10/27/2020	4:54:58 PM	0:05:05	90
2	1024	534	534	10/27/2020	6:54:58 PM	2:00:00	57
7	3058	535	535	10/27/2020	7:01:02 PM	0:06:04	99
4	2270	536	536	10/28/2020	2:03:04 PM		10
4	2271	537	537	10/29/2020	12:58:08 PM		100
4	2272	538	538	10/29/2020	1:01:13 PM	0:03:05	100
4	2273	539	539	10/29/2020	1:08:05 PM	0:06:52	100
4	2274	540	540	10/29/2020	1:12:10 PM	0:04:05	100
4	2275	541	541	10/29/2020	1:17:00 PM	0:04:50	98
4	2276	542	542	10/29/2020	1:21:05 PM	0:04:05	100
4	2277	543	543	10/29/2020	1:24:09 PM	0:03:04	100
4	2278	544	544	10/29/2020	1:30:01 PM	0:05:52	100
4	2279	545	545	10/29/2020	1:36:06 PM	0:06:05	100
4	2280	546	546	10/29/2020	1:40:11 PM	0:04:05	99
4	2281	547	547	10/29/2020	1:44:02 PM	0:03:51	100

4	2282	548	548	10/29/2020	1:48:06 PM	0:04:05	99
4	2283	549	549	10/29/2020	1:54:11 PM	0:06:05	100
4	2284	550	550	10/29/2020	1:56:02 PM	0:01:51	100
4	2285	551	551	10/29/2020	1:59:07 PM	0:03:05	100
4	2286	552	552	10/29/2020	2:02:12 PM	0:03:05	100
4	2287	553	553	10/29/2020	2:09:03 PM	0:06:51	100
4	2288	554	554	10/29/2020	2:13:08 PM	0:04:05	100
4	2289	555	555	10/29/2020	2:19:12 PM	0:06:05	100
4	2290	556	556	10/29/2020	2:22:02 PM	0:02:50	100
4	2291	557	557	10/29/2020	2:25:07 PM	0:03:05	100
4	2292	558	558	10/29/2020	2:36:13 PM	0:11:06	100
4	2293	559	559	10/29/2020	2:38:04 PM	0:01:51	100
4	2294	560	560	10/29/2020	2:40:09 PM	0:02:04	100
4	2295	561	561	10/29/2020	2:45:13 PM	0:05:05	97
4	2296	562	562	10/29/2020	2:49:03 PM	0:03:50	99
4	2297	563	563	10/29/2020	2:51:07 PM	0:02:04	100
4	2298	564	564	10/29/2020	2:54:14 PM	0:03:06	100
4	2299	565	565	10/29/2020	2:57:03 PM	0:02:50	100
4	2300	566	566	10/29/2020	3:00:08 PM	0:03:05	100
2	1025	567	567	10/29/2020	3:16:15 PM	0:16:07	72
2	1026	568	568	10/29/2020	3:17:03 PM	0:00:48	61
2	1027	569	569	10/29/2020	3:23:07 PM	0:06:04	83
2	1028	570	570	10/29/2020	3:25:11 PM	0:02:04	82
2	1029	571	571	10/29/2020	3:27:14 PM	0:02:04	59
2	1030	572	572	10/29/2020	3:33:03 PM	0:05:49	82
2	1031	573	573	10/29/2020	3:34:07 PM	0:01:03	81
2	1032	574	574	10/29/2020	3:35:10 PM	0:01:03	76
2	1033	575	575	10/29/2020	3:37:13 PM	0:02:04	73
2	1034	576	576	10/29/2020	3:41:02 PM	0:03:49	52
4	2301	577	577	10/29/2020	3:45:05 PM	0:04:03	100
4	2302	578	578	10/29/2020	3:48:10 PM	0:03:04	99
4	2303	579	579	10/29/2020	3:52:14 PM	0:04:05	100
4	2304	580	580	10/29/2020	3:55:04 PM	0:02:49	100
4	2305	581	581	10/29/2020	3:59:09 PM	0:04:05	99
4	2306	582	582	10/29/2020	4:04:13 PM	0:05:05	99
4	2307	583	583	10/29/2020	4:07:03 PM	0:02:50	100
4	2308	584	584	10/29/2020	4:11:08 PM	0:04:05	100
4	2309	585	585	10/29/2020	4:13:12 PM	0:02:04	100
4	2310	586	586	10/29/2020	4:17:03 PM	0:03:50	98
4	2311	587	587	10/29/2020	4:20:07 PM	0:03:04	100
4	2312	588	588	10/29/2020	4:23:12 PM	0:03:05	100
4	2313	589	589	10/29/2020	4:26:04 PM	0:02:52	99
4	2314	590	590	10/29/2020	4:32:09 PM	0:06:05	98
4	2315	591	591	10/29/2020	4:38:14 PM	0:06:05	100
4	2316	592	592	10/29/2020	4:41:04 PM	0:02:50	100

4	2317	593	593	10/29/2020	4:49:10 PM	0:08:06	100
4	2318	594	594	10/29/2020	4:52:14 PM	0:03:05	99
4	2319	595	595	10/29/2020	4:56:04 PM	0:03:50	100
4	2320	596	596	10/29/2020	4:59:09 PM	0:03:05	99
4	2321	597	597	10/29/2020	5:01:13 PM	0:02:04	100
4	2322	598	598	10/29/2020	5:07:05 PM	0:05:52	99
4	2323	599	599	10/29/2020	5:11:09 PM	0:04:05	99
4	2324	600	600	10/29/2020	5:14:14 PM	0:03:05	100
4	2325	601	601	10/29/2020	5:16:03 PM	0:01:49	100
4	2326	602	602	10/29/2020	5:20:08 PM	0:04:05	100
4	2327	603	603	10/29/2020	5:22:13 PM	0:02:04	100
4	2328	604	604	10/29/2020	5:25:04 PM	0:02:51	100
4	2329	605	605	10/29/2020	5:30:09 PM	0:05:05	100
7	3059	606	606	10/30/2020	12:37:26 PM		97
7	3060	607	607	10/30/2020	12:41:16 PM	0:03:50	100
7	3061	608	608	10/30/2020	12:45:20 PM	0:04:05	100
7	3062	609	609	10/30/2020	12:50:11 PM	0:04:51	100
7	3063	610	610	10/30/2020	12:55:16 PM	0:05:05	99
10	4185	611	611	10/30/2020	1:16:25 PM	0:21:08	100
10	4186	612	612	10/30/2020	1:20:14 PM	0:03:50	100
10	4187	613	613	10/30/2020	1:23:19 PM	0:03:05	100
10	4188	614	614	10/30/2020	1:27:24 PM	0:04:05	99
10	4189	615	615	10/30/2020	1:30:13 PM	0:02:49	100
10	4190	616	616	10/30/2020	1:37:19 PM	0:07:05	100
10	4191	617	617	10/30/2020	1:40:23 PM	0:03:05	100
10	4192	618	618	10/30/2020	1:43:13 PM	0:02:50	100
10	4193	619	619	10/30/2020	1:48:18 PM	0:05:05	100
10	4194	620	620	10/30/2020	1:51:23 PM	0:03:05	100
10	4195	621	621	10/30/2020	1:54:12 PM	0:02:50	100
10	4196	622	622	10/30/2020	2:04:18 PM	0:10:06	99
10	4197	623	623	10/30/2020	2:07:23 PM	0:03:05	100
10	4198	624	624	10/30/2020	2:13:13 PM	0:05:50	100
10	4199	625	625	10/30/2020	2:22:19 PM	0:09:06	96
10	4200	626	626	10/30/2020	2:25:23 PM	0:03:04	100
10	4201	627	627	10/30/2020	2:28:13 PM	0:02:50	100
10	4202	628	628	10/30/2020	2:31:17 PM	0:03:05	100
10	4203	629	629	10/30/2020	2:34:22 PM	0:03:05	100
10	4204	630	630	10/30/2020	2:41:13 PM	0:06:51	98
10	4205	631	631	10/30/2020	2:44:17 PM	0:03:05	100
10	4206	632	632	10/30/2020	2:47:22 PM	0:03:05	100
10	4207	633	633	10/30/2020	2:51:11 PM	0:03:50	100
10	4208	634	634	10/30/2020	2:54:16 PM	0:03:05	100
10	4209	635	635	10/30/2020	2:57:21 PM	0:03:05	100
10	4210	636	636	10/30/2020	3:00:12 PM	0:02:51	100
10	4211	637	637	10/30/2020	3:03:17 PM	0:03:04	100

10	4212	638	638	10/30/2020	3:06:21 PM	0:03:05	100
2	1035	639	639	10/30/2020	3:09:11 PM	0:02:50	96
10	4213	640	640	10/30/2020	3:09:30 PM	0:00:18	100
2	1036	641	641	10/30/2020	3:11:19 PM	0:01:49	79
10	4214	642	642	10/30/2020	3:12:22 PM	0:01:04	100
2	1037	643	643	10/30/2020	3:14:12 PM	0:01:49	82
2	1038	644	644	10/30/2020	3:16:15 PM	0:02:03	69
2	1039	645	645	10/30/2020	3:18:18 PM	0:02:03	34
4	2330	646	646	10/30/2020	3:25:22 PM	0:07:03	100
10	4215	647	647	10/30/2020	3:27:12 PM	0:01:50	93
4	2331	648	648	10/30/2020	3:30:16 PM	0:03:04	98
10	4216	649	649	10/30/2020	3:35:23 PM	0:05:07	100
4	2332	650	650	10/30/2020	3:38:13 PM	0:02:49	100
10	4217	651	651	10/30/2020	3:38:31 PM	0:00:18	100
4	2333	652	652	10/30/2020	3:47:22 PM	0:08:51	100
10	4218	653	653	10/30/2020	3:48:11 PM	0:00:49	100
4	2334	654	654	10/30/2020	3:51:16 PM	0:03:04	100
10	4219	655	655	10/30/2020	3:53:20 PM	0:02:05	70
4	2335	656	656	10/30/2020	3:55:24 PM	0:02:03	100
10	4220	657	657	10/30/2020	3:57:13 PM	0:01:49	100
4	2336	658	658	10/30/2020	3:59:17 PM	0:02:04	99
10	4221	659	659	10/30/2020	4:00:21 PM	0:01:04	100
10	4222	660	660	10/30/2020	4:03:11 PM	0:02:50	100
4	2337	661	661	10/30/2020	4:04:15 PM	0:01:04	99
10	4223	662	662	10/30/2020	4:07:20 PM	0:03:05	100
10	4224	663	663	10/30/2020	4:10:25 PM	0:03:05	100
4	2338	664	664	10/30/2020	4:11:14 PM	0:00:49	100
4	2339	665	665	10/30/2020	4:17:19 PM	0:06:05	99
4	2340	666	666	10/30/2020	4:22:24 PM	0:05:05	100
4	2341	667	667	10/30/2020	4:27:14 PM	0:04:50	84
4	2342	668	668	10/30/2020	4:32:18 PM	0:05:04	75
4	2343	669	669	10/30/2020	4:37:22 PM	0:05:04	68
10	4225	670	670	11/1/2020	1:56:35 PM		100
10	4226	671	671	11/1/2020	1:59:40 PM	0:03:05	100
10	4227	672	672	11/1/2020	2:01:29 PM	0:01:49	100
10	4228	673	673	11/1/2020	2:04:34 PM	0:03:05	100
10	4229	674	674	11/1/2020	2:09:39 PM	0:05:05	100
10	4230	675	675	11/1/2020	2:12:43 PM	0:03:05	100
10	4231	676	676	11/1/2020	2:17:33 PM	0:04:50	100
10	4232	677	677	11/1/2020	2:22:38 PM	0:05:05	99
10	4233	678	678	11/1/2020	2:26:43 PM	0:04:05	99
10	4234	679	679	11/1/2020	2:29:32 PM	0:02:49	100
10	4235	680	680	11/1/2020	2:32:37 PM	0:03:05	99
10	4236	681	681	11/1/2020	2:35:41 PM	0:03:05	100
10	4237	682	682	11/1/2020	2:38:31 PM	0:02:49	100

10	4238	683	683	11/1/2020	2:44:36 PM	0:06:05	100
10	4239	684	684	11/1/2020	2:51:42 PM	0:07:05	97
10	4240	685	685	11/1/2020	2:54:31 PM	0:02:49	100
10	4241	686	686	11/1/2020	2:57:36 PM	0:03:05	100
10	4242	687	687	11/1/2020	3:00:40 PM	0:03:05	99
10	4243	688	688	11/1/2020	3:05:31 PM	0:04:51	100
10	4244	689	689	11/1/2020	3:07:35 PM	0:02:04	100
7	3064	690	690	11/1/2020	3:14:42 PM	0:07:07	100
7	3065	691	691	11/1/2020	3:17:32 PM	0:02:50	100
7	3066	692	692	11/1/2020	3:20:36 PM	0:03:05	100
7	3067	693	693	11/1/2020	3:24:41 PM	0:04:05	100
10	4245	694	694	11/1/2020	3:35:32 PM	0:10:51	100
10	4246	695	695	11/1/2020	3:38:37 PM	0:03:05	100
10	4247	696	696	11/1/2020	3:41:41 PM	0:03:05	100
10	4248	697	697	11/1/2020	3:45:31 PM	0:03:50	99
10	4249	698	698	11/1/2020	3:49:36 PM	0:04:05	99
10	4250	699	699	11/1/2020	3:51:40 PM	0:02:04	100
10	4251	700	700	11/1/2020	3:54:30 PM	0:02:50	100
10	4252	701	701	11/1/2020	3:57:35 PM	0:03:05	100
10	4253	702	702	11/1/2020	4:00:39 PM	0:03:05	100
10	4254	703	703	11/1/2020	4:02:44 PM	0:02:04	100
10	4255	704	704	11/1/2020	4:05:33 PM	0:02:49	100
10	4256	705	705	11/1/2020	4:12:39 PM	0:07:05	100
10	4257	706	706	11/1/2020	4:15:43 PM	0:03:05	100
10	4258	707	707	11/1/2020	4:19:33 PM	0:03:50	100
10	4259	708	708	11/1/2020	4:24:38 PM	0:05:05	100
4	2344	709	709	11/1/2020	4:27:42 PM	0:03:04	70
10	4260	710	710	11/1/2020	4:27:45 PM	0:00:03	100
10	4261	711	711	11/1/2020	4:30:35 PM	0:02:50	100
4	2345	712	712	11/1/2020	4:32:39 PM	0:02:04	100
10	4262	713	713	11/1/2020	4:33:43 PM	0:01:04	100
10	4263	714	714	11/1/2020	4:36:33 PM	0:02:50	100
10	4264	715	715	11/1/2020	4:38:37 PM	0:02:04	99
10	4265	716	716	11/1/2020	4:42:42 PM	0:04:05	100
4	2346	717	717	11/1/2020	4:45:31 PM	0:02:49	99
10	4266	718	718	11/1/2020	4:46:36 PM	0:01:04	100
4	2347	719	719	11/1/2020	4:48:39 PM	0:02:04	22
10	4267	720	720	11/1/2020	4:51:42 PM	0:03:02	100
10	4268	721	721	11/1/2020	4:54:31 PM	0:02:50	100
2	1040	722	722	11/2/2020	3:06:33 PM		94
2	1041	723	723	11/2/2020	3:06:36 PM	0:00:03	91
2	1042	724	724	11/2/2020	3:06:39 PM	0:00:03	77
2	1043	725	725	11/2/2020	3:06:58 PM	0:00:19	75
2	1044	726	726	11/2/2020	3:07:01 PM	0:00:03	83
2	1045	727	727	11/2/2020	3:07:04 PM	0:00:03	80

2	1046	728	728	11/2/2020	3:07:07 PM	0:00:03	72
2	1047	729	729	11/2/2020	3:07:10 PM	0:00:03	75
2	1048	730	730	11/2/2020	3:07:13 PM	0:00:03	36
2	1049	731	731	11/2/2020	3:07:14 PM	0:00:02	51
2	1050	732	732	11/2/2020	3:07:17 PM	0:00:02	55
2	1051	733	733	11/2/2020	3:07:19 PM	0:00:02	35
2	1052	734	734	11/2/2020	3:07:21 PM	0:00:02	61
2	1053	735	735	11/2/2020	3:07:23 PM	0:00:03	64
2	1054	736	736	11/2/2020	3:07:26 PM	0:00:03	53
2	1055	737	737	11/2/2020	3:07:29 PM	0:00:03	55
2	1056	738	738	11/2/2020	3:07:47 PM	0:00:18	98
10	4269	739	739	11/2/2020	3:07:51 PM	0:00:04	99
2	1057	740	740	11/2/2020	3:08:26 PM	0:00:35	97
10	4270	741	741	11/2/2020	3:08:45 PM	0:00:19	100
2	1058	742	742	11/2/2020	3:10:34 PM	0:01:49	97
2	1059	743	743	11/2/2020	3:12:23 PM	0:01:49	32
10	4271	744	744	11/2/2020	3:13:26 PM	0:01:03	100
2	1060	745	745	11/2/2020	3:17:30 PM	0:04:05	61
2	1061	746	746	11/2/2020	3:19:33 PM	0:02:03	62
2	1062	747	747	11/2/2020	3:20:36 PM	0:01:03	30
10	4272	748	748	11/2/2020	3:22:38 PM	0:02:02	98
10	4273	749	749	11/2/2020	3:26:28 PM	0:03:50	100
4	2348	750	750	11/2/2020	3:28:32 PM	0:02:04	99
10	4274	751	751	11/2/2020	3:29:36 PM	0:01:04	100
4	2349	752	752	11/2/2020	3:31:26 PM	0:01:50	100
10	4275	753	753	11/2/2020	3:32:31 PM	0:01:04	100
4	2350	754	754	11/2/2020	3:34:35 PM	0:02:04	100
4	2351	755	755	11/2/2020	3:36:26 PM	0:01:51	100
10	4276	756	756	11/2/2020	3:37:31 PM	0:01:04	99
4	2352	757	757	11/2/2020	3:40:35 PM	0:03:05	100
10	4277	758	758	11/2/2020	3:40:39 PM	0:00:04	100
4	2353	759	759	11/2/2020	3:44:29 PM	0:03:50	100
10	4278	760	760	11/2/2020	3:45:33 PM	0:01:04	100
4	2354	761	761	11/2/2020	3:50:25 PM	0:04:51	100
10	4279	762	762	11/2/2020	3:50:45 PM	0:00:20	99
10	4280	763	763	11/2/2020	3:54:34 PM	0:03:50	100
4	2355	764	764	11/2/2020	3:55:39 PM	0:01:04	100
4	2356	765	765	11/2/2020	3:58:28 PM	0:02:49	100
10	4281	766	766	11/2/2020	3:59:32 PM	0:01:04	99
4	2357	767	767	11/2/2020	4:02:37 PM	0:03:05	100
10	4282	768	768	11/2/2020	4:02:41 PM	0:00:04	100
10	4283	769	769	11/2/2020	4:05:30 PM	0:02:50	98
4	2358	770	770	11/2/2020	4:06:34 PM	0:01:04	100
10	4284	771	771	11/2/2020	4:12:27 PM	0:05:52	100
10	4285	772	772	11/2/2020	4:14:31 PM	0:02:04	100

10	4286	773	773	11/2/2020	4:19:37 PM	0:05:06	100
7	3068	774	774	11/2/2020	4:21:26 PM	0:01:49	98
10	4287	775	775	11/2/2020	4:22:30 PM	0:01:04	100
10	4288	776	776	11/2/2020	4:25:35 PM	0:03:05	100
7	3069	777	777	11/2/2020	4:27:25 PM	0:01:50	99
7	3070	778	778	11/2/2020	4:32:30 PM	0:05:05	100
7	3071	779	779	11/2/2020	4:42:36 PM	0:10:06	86
7	3072	780	780	11/2/2020	5:06:30 PM	0:23:54	60
2	1063	781	781	11/3/2020	1:58:38 PM		100
2	1064	782	782	11/3/2020	2:01:42 PM	0:03:05	100
2	1065	783	783	11/3/2020	2:07:33 PM	0:05:50	63
2	1066	784	784	11/3/2020	2:08:35 PM	0:01:03	61
2	1067	785	785	11/3/2020	2:12:39 PM	0:04:03	62
2	1068	786	786	11/3/2020	2:14:42 PM	0:02:03	69
2	1069	787	787	11/3/2020	2:19:45 PM	0:05:04	62
10	4289	788	788	11/3/2020	2:24:49 PM	0:05:04	86
2	1070	789	789	11/3/2020	2:26:38 PM	0:01:49	73
10	4290	790	790	11/3/2020	2:26:41 PM	0:00:03	100
2	1071	791	791	11/3/2020	2:28:45 PM	0:02:04	74
2	1072	792	792	11/3/2020	2:29:34 PM	0:00:49	78
10	4291	793	793	11/3/2020	2:29:52 PM	0:00:18	99
2	1073	794	794	11/3/2020	2:31:42 PM	0:01:49	79
10	4292	795	795	11/3/2020	2:32:45 PM	0:01:03	100
2	1074	796	796	11/3/2020	2:34:34 PM	0:01:49	40
10	4293	797	797	11/3/2020	2:35:36 PM	0:01:02	100
10	4294	798	798	11/3/2020	2:37:41 PM	0:02:04	100
2	1075	799	799	11/3/2020	2:40:45 PM	0:03:04	45
10	4295	800	800	11/3/2020	2:42:48 PM	0:02:03	97
10	4296	801	801	11/3/2020	2:44:37 PM	0:01:49	100
2	1076	802	802	11/3/2020	2:46:41 PM	0:02:04	86
2	1077	803	803	11/3/2020	2:48:45 PM	0:02:04	76
2	1078	804	804	11/3/2020	2:54:34 PM	0:05:49	61
10	4297	805	805	11/3/2020	2:57:38 PM	0:03:03	99
2	1079	806	806	11/3/2020	2:58:42 PM	0:01:04	72
2	1080	807	807	11/3/2020	3:00:45 PM	0:02:03	81
10	4298	808	808	11/3/2020	3:01:36 PM	0:00:51	100
2	1081	809	809	11/3/2020	3:02:40 PM	0:01:04	59
10	4299	810	810	11/3/2020	3:04:43 PM	0:02:03	100
10	4300	811	811	11/3/2020	3:07:48 PM	0:03:05	100
10	4301	812	812	11/3/2020	3:10:37 PM	0:02:49	100
7	3073	813	813	11/3/2020	3:11:41 PM	0:01:04	100
10	4302	814	814	11/3/2020	3:13:46 PM	0:02:04	99
7	3074	815	815	11/3/2020	3:14:35 PM	0:00:49	99
10	4303	816	816	11/3/2020	3:16:39 PM	0:02:04	100
7	3075	817	817	11/3/2020	3:17:43 PM	0:01:04	100

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

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

10	4350	908	908	11/3/2020	9:27:47 PM	0:03:05	100
7	3105	909	909	11/3/2020	9:28:37 PM	0:00:49	99
7	3106	910	910	11/3/2020	9:32:41 PM	0:04:05	68
10	4351	911	911	11/3/2020	10:13:38 PM	0:40:57	55
10	4352	912	912	11/3/2020	10:16:42 PM	0:03:03	98
10	4353	913	913	11/3/2020	10:22:47 PM	0:06:05	99
10	4354	914	914	11/3/2020	10:25:38 PM	0:02:51	100
10	4355	915	915	11/3/2020	10:28:43 PM	0:03:05	100
10	4356	916	916	11/3/2020	10:31:47 PM	0:03:05	99
10	4357	917	917	11/3/2020	10:34:38 PM	0:02:51	100
10	4358	918	918	11/3/2020	10:37:43 PM	0:03:05	100
10	4359	919	919	11/3/2020	10:40:47 PM	0:03:05	100
10	4360	920	920	11/3/2020	10:43:39 PM	0:02:52	100
10	4361	921	921	11/3/2020	10:45:44 PM	0:02:04	100
10	4362	922	922	11/3/2020	10:48:48 PM	0:03:05	100
2	1097	923	923	11/3/2020	10:50:37 PM	0:01:49	99
2	1098	924	924	11/3/2020	10:53:42 PM	0:03:04	94
10	4363	925	925	11/3/2020	10:55:46 PM	0:02:04	100
10	4364	926	926	11/3/2020	11:00:38 PM	0:04:52	98
10	4365	927	927	11/3/2020	11:03:43 PM	0:03:04	100
2	1099	928	928	11/3/2020	11:04:47 PM	0:01:04	68
10	4366	929	929	11/3/2020	11:06:51 PM	0:02:04	100
10	4367	930	930	11/3/2020	11:09:40 PM	0:02:50	100
2	1100	931	931	11/3/2020	11:10:44 PM	0:01:04	77
10	4368	932	932	11/3/2020	11:11:48 PM	0:01:03	100
2	1101	933	933	11/3/2020	11:15:37 PM	0:03:50	88
10	4369	934	934	11/3/2020	11:15:56 PM	0:00:19	100
10	4370	935	935	11/3/2020	11:18:45 PM	0:02:50	100
2	1102	936	936	11/3/2020	11:19:50 PM	0:01:04	99
10	4371	937	937	11/3/2020	11:20:39 PM	0:00:49	100
2	1103	938	938	11/3/2020	11:21:43 PM	0:01:04	65
2	1104	939	939	11/3/2020	11:22:45 PM	0:01:03	37
2	1105	940	940	11/3/2020	11:27:48 PM	0:05:03	95
2	1106	941	941	11/3/2020	11:28:37 PM	0:00:49	95
7	3107	942	942	11/3/2020	11:37:42 PM	0:09:05	66
2	1107	943	943	11/10/2020	12:58:43 PM		87
2	1108	944	944	11/10/2020	1:01:32 PM	0:02:49	81
2	1109	945	945	11/10/2020	1:03:36 PM	0:02:04	69
2	1110	946	946	11/10/2020	1:08:40 PM	0:05:04	98
2	1111	947	947	11/10/2020	1:15:45 PM	0:07:05	97
2	1112	948	948	11/10/2020	1:27:36 PM	0:11:51	95
2	1113	949	949	11/10/2020	1:28:40 PM	0:01:04	68
2	1114	950	950	11/10/2020	1:30:43 PM	0:02:03	81
2	1115	951	951	11/10/2020	1:37:33 PM	0:06:50	85
2	1116	952	952	11/10/2020	1:40:37 PM	0:03:04	81

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

APPENDIX C – LOG ENTRIES FROM EMS USER LOG – OCTOBER 2020

Date and Time	Commands / Comments in red
10/21/2020 14:18:01	SubmitBatchCommand (execution duration: 1250ms): Batch 227 - Successfully synchronized results.
10/21/2020 14:18:02	SubmitBatchCommand (execution duration: 1156ms): Batch 226 - Successfully synchronized results.
10/21/2020 14:18:03	SubmitBatchCommand (execution duration: 1297ms): Batch 228 - Successfully synchronized results.
10/21/2020 14:18:05	SubmitBatchCommand (execution duration: 906ms): Batch 229 - Successfully synchronized results.
	The above four commands are the last 4 batches adjudicated and written back to the database before the database copy.
10/21/2020 14:18:14	GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 267).
10/21/2020 14:18:33	LoadResultsCommand (execution duration: 2688ms): Result file '1_1_7_3037_DETAIL.DVD' was loaded successfully.
	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.
	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.
10/21/2020 14:18:39	GetAdjudicationSupportStatusCommand (execution duration: 16ms): Adjudication status retrieved (Adjudication is enabled)
10/21/2020 14:18:52	GetAdjudicationSupportStatusCommand (execution duration: 0ms): Adjudication status retrieved (Adjudication is enabled)
	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.
10/21/2020 14:18:57	GetRelevantOutstackConditionsCommand (execution duration: 31ms): Successfully retrieved relevant outstack conditions
10/21/2020 14:19:26	GetRelevantOutstackConditionsCommand (execution duration: 0ms): Successfully retrieved relevant outstack conditions
	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
10/21/2020 14:20:06	GetBatchesCommand (execution duration: 1156ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 0). Values of CvrSortOrder field for delivered batches are: 1
	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
10/21/2020 14:20:07	GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '1' successfully retrieved.
	1 Batch was found and retrieved
10/21/2020 14:20:25	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
	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)
10/21/2020 14:20:26	GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '60' successfully retrieved.
10/21/2020 14:20:30	GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '61' successfully retrieved.

10/21/2020 14:20:34	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '62' successfully retrieved.
10/21/2020 14:20:38	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '63' successfully retrieved.
10/21/2020 14:20:43	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '64' successfully retrieved.
10/21/2020 14:20:47	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '65' successfully retrieved.
10/21/2020 14:20:51	GetCastVoteRecordsCommand (execution duration: 406ms): Cast vote records for batch '66' successfully retrieved.
10/21/2020 14:20:55	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '67' successfully retrieved.
10/21/2020 14:20:59	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '68' successfully retrieved.
10/21/2020 14:21:04	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '69' successfully retrieved.
10/21/2020 14:21:08	GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '70' successfully retrieved.
10/21/2020 14:21:12	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '71' successfully retrieved.
10/21/2020 14:21:16	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '72' successfully retrieved.
10/21/2020 14:21:20	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '73' successfully retrieved.
10/21/2020 14:21:24	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '74' successfully retrieved.
10/21/2020 14:21:28	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '75' successfully retrieved.
	The above log entries are the reloading of the batches 60 - 75
10/21/2020 14:21:29	GetCastVoteRecordImageCommand (execution duration: 0ms): Image for tabulator '10, batch '4001' and session '18' successfully retrieved.
	The Adjudication Module begins processing ballots needing adjudication (4001 = batch 1)
10/21/2020 14:21:33	GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '76' successfully retrieved.
10/21/2020 14:21:37	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '77' successfully retrieved.
10/21/2020 14:21:44	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '78' successfully retrieved.
10/21/2020 14:21:48	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '79' successfully retrieved.
10/21/2020 14:21:52	GetCastVoteRecordsCommand (execution duration: 375ms): Cast vote records for batch '80' successfully retrieved.
10/21/2020 14:21:56	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '81' successfully retrieved.
10/21/2020 14:22:00	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '82' successfully retrieved.
10/21/2020 14:22:04	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '83' successfully retrieved.
10/21/2020 14:22:09	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '84' successfully retrieved.
10/21/2020 14:22:13	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '85' successfully retrieved.
10/21/2020 14:22:17	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '86' successfully retrieved.
10/21/2020 14:22:21	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '87' successfully retrieved.
10/21/2020 14:22:25	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '88' successfully retrieved.

10/21/2020 14:22:29	GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '89' successfully retrieved.
10/21/2020 14:22:33	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '90' successfully retrieved.
10/21/2020 14:22:37	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '91' successfully retrieved.
10/21/2020 14:22:41	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '92' successfully retrieved.
10/21/2020 14:22:46	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '93' successfully retrieved.
10/21/2020 14:22:50	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '94' successfully retrieved.
10/21/2020 14:22:54	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '95' successfully retrieved.
10/21/2020 14:22:58	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '96' successfully retrieved.
10/21/2020 14:23:02	GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '97' successfully retrieved.
10/21/2020 14:23:06	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '98' successfully retrieved.
10/21/2020 14:23:10	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '99' successfully retrieved.
10/21/2020 14:23:14	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '100' successfully retrieved.
10/21/2020 14:23:18	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '101' successfully retrieved.
10/21/2020 14:23:23	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '102' successfully retrieved.
10/21/2020 14:23:27	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '103' successfully retrieved.
10/21/2020 14:23:31	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '104' successfully retrieved.
10/21/2020 14:23:37	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '105' successfully retrieved.
10/21/2020 14:23:41	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '106' successfully retrieved.
10/21/2020 14:23:45	GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '107' successfully retrieved.
10/21/2020 14:23:49	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '108' successfully retrieved.
10/21/2020 14:23:53	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '109' successfully retrieved.
10/21/2020 14:23:57	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '110' successfully retrieved.
10/21/2020 14:24:01	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '111' successfully retrieved.
10/21/2020 14:24:06	GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '112' successfully retrieved.
10/21/2020 14:24:10	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '113' successfully retrieved.
10/21/2020 14:24:13	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '114' successfully retrieved.
10/21/2020 14:24:18	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '115' successfully retrieved.
10/21/2020 14:24:22	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '116' successfully retrieved.
10/21/2020 14:24:26	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '117' successfully retrieved.

10/21/2020 14:24:30	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '118' successfully retrieved.
10/21/2020 14:24:35	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '119' successfully retrieved.
10/21/2020 14:24:39	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '120' successfully retrieved.
10/21/2020 14:24:43	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '121' successfully retrieved.
10/21/2020 14:24:47	GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '122' successfully retrieved.
10/21/2020 14:24:51	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '123' successfully retrieved.
10/21/2020 14:24:55	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '124' successfully retrieved.
10/21/2020 14:25:00	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '125' successfully retrieved.
10/21/2020 14:25:04	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '126' successfully retrieved.
10/21/2020 14:25:08	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '127' successfully retrieved.
10/21/2020 14:25:12	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '128' successfully retrieved.
10/21/2020 14:25:16	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '129' successfully retrieved.
10/21/2020 14:25:20	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '130' successfully retrieved.
10/21/2020 14:25:25	GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '131' successfully retrieved.
10/21/2020 14:25:30	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '132' successfully retrieved.
10/21/2020 14:25:34	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '133' successfully retrieved.
10/21/2020 14:25:38	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '134' successfully retrieved.
10/21/2020 14:25:42	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '135' successfully retrieved.
10/21/2020 14:25:47	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '136' successfully retrieved.
10/21/2020 14:25:52	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '137' successfully retrieved.
10/21/2020 14:25:57	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '138' successfully retrieved.
10/21/2020 14:26:01	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '139' successfully retrieved.
10/21/2020 14:26:05	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '140' successfully retrieved.
10/21/2020 14:26:09	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '141' successfully retrieved.
10/21/2020 14:26:13	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '142' successfully retrieved.
10/21/2020 14:26:17	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '143' successfully retrieved.
10/21/2020 14:26:21	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '144' successfully retrieved.
10/21/2020 14:26:25	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '145' successfully retrieved.
10/21/2020 14:26:29	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '146' successfully retrieved.

10/21/2020 14:26:33	GetCastVoteRecordsCommand (execution duration: 219ms): Cast vote records for batch '147' successfully retrieved.
10/21/2020 14:26:37	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '148' successfully retrieved.
10/21/2020 14:26:41	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '149' successfully retrieved.
10/21/2020 14:26:45	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '150' successfully retrieved.
10/21/2020 14:26:49	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '151' successfully retrieved.
10/21/2020 14:26:52	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '152' successfully retrieved.
10/21/2020 14:26:57	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '153' successfully retrieved.
10/21/2020 14:27:01	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '154' successfully retrieved.
10/21/2020 14:27:05	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '155' successfully retrieved.
10/21/2020 14:27:10	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '156' successfully retrieved.
10/21/2020 14:27:14	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '157' successfully retrieved.
10/21/2020 14:27:18	GetCastVoteRecordsCommand (execution duration: 359ms): Cast vote records for batch '158' successfully retrieved.
10/21/2020 14:27:21	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '159' successfully retrieved.
10/21/2020 14:27:26	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '160' successfully retrieved.
10/21/2020 14:27:30	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '161' successfully retrieved.
10/21/2020 14:27:34	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '162' successfully retrieved.
10/21/2020 14:27:38	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '163' successfully retrieved.
10/21/2020 14:27:42	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '164' successfully retrieved.
10/21/2020 14:27:46	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '165' successfully retrieved.
10/21/2020 14:27:50	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '166' successfully retrieved.
10/21/2020 14:27:56	GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '167' successfully retrieved.
10/21/2020 14:28:01	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '168' successfully retrieved.
10/21/2020 14:28:05	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '169' successfully retrieved.
10/21/2020 14:28:10	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '170' successfully retrieved.
10/21/2020 14:28:13	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '171' successfully retrieved.
10/21/2020 14:28:18	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '172' successfully retrieved.
10/21/2020 14:28:22	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '173' successfully retrieved.
10/21/2020 14:28:25	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '174' successfully retrieved.
10/21/2020 14:28:30	GetCastVoteRecordsCommand (execution duration: 344ms): Cast vote records for batch '175' successfully retrieved.

10/21/2020 14:28:34	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '176' successfully retrieved.
10/21/2020 14:28:38	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '177' successfully retrieved.
10/21/2020 14:28:42	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '178' successfully retrieved.
10/21/2020 14:28:46	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '179' successfully retrieved.
10/21/2020 14:28:50	GetCastVoteRecordsCommand (execution duration: 313ms): Cast vote records for batch '180' successfully retrieved.
10/21/2020 14:28:54	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '181' successfully retrieved.
10/21/2020 14:28:58	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '182' successfully retrieved.
10/21/2020 14:29:02	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '183' successfully retrieved.
10/21/2020 14:29:06	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '184' successfully retrieved.
10/21/2020 14:29:10	GetCastVoteRecordsCommand (execution duration: 312ms): Cast vote records for batch '185' successfully retrieved.
10/21/2020 14:29:14	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '186' successfully retrieved.
10/21/2020 14:29:18	GetCastVoteRecordsCommand (execution duration: 172ms): Cast vote records for batch '187' successfully retrieved.
10/21/2020 14:29:22	GetCastVoteRecordsCommand (execution duration: 438ms): Cast vote records for batch '188' successfully retrieved.
10/21/2020 14:29:26	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '189' successfully retrieved.
10/21/2020 14:29:30	GetCastVoteRecordsCommand (execution duration: 328ms): Cast vote records for batch '190' successfully retrieved.
10/21/2020 14:29:34	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '191' successfully retrieved.
10/21/2020 14:29:38	GetCastVoteRecordsCommand (execution duration: 250ms): Cast vote records for batch '192' successfully retrieved.
10/21/2020 14:29:43	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '193' successfully retrieved.
10/21/2020 14:29:47	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '194' successfully retrieved.
10/21/2020 14:29:52	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '195' successfully retrieved.
10/21/2020 14:29:56	GetCastVoteRecordsCommand (execution duration: 266ms): Cast vote records for batch '196' successfully retrieved.
10/21/2020 14:30:00	GetCastVoteRecordsCommand (execution duration: 297ms): Cast vote records for batch '197' successfully retrieved.
10/21/2020 14:30:04	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '198' successfully retrieved.
10/21/2020 14:30:08	GetCastVoteRecordsCommand (execution duration: 62ms): Cast vote records for batch '199' successfully retrieved.
10/21/2020 14:30:09	GetCastVoteRecordsCommand (execution duration: 203ms): Cast vote records for batch '200' successfully retrieved.
10/21/2020 14:30:13	GetCastVoteRecordsCommand (execution duration: 203ms): Cast vote records for batch '201' successfully retrieved.
10/21/2020 14:30:17	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '202' successfully retrieved.
10/21/2020 14:30:21	GetCastVoteRecordsCommand (execution duration: 281ms): Cast vote records for batch '203' successfully retrieved.
10/21/2020 14:30:25	GetCastVoteRecordsCommand (execution duration: 234ms): Cast vote records for batch '204' successfully retrieved.

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

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

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

APPENDIX D – LOG ENTRIES FROM EMS USER LOG – MARCH 2021

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

03/30/2021 15:00:36	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
03/30/2021 15:00:36	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '52' successfully retrieved.
03/30/2021 15:00:40	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '53' successfully retrieved.
03/30/2021 15:00:43	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '54' successfully retrieved.
03/30/2021 15:00:47	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '55' successfully retrieved.
03/30/2021 15:00:51	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '56' successfully retrieved.
03/30/2021 15:00:54	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '57' successfully retrieved.
03/30/2021 15:00:58	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '58' successfully retrieved.
03/30/2021 15:01:01	GetCastVoteRecordsCommand (execution duration: 125ms): Cast vote records for batch '59' successfully retrieved.
03/30/2021 15:01:05	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '60' successfully retrieved.
03/30/2021 15:01:08	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '61' successfully retrieved.
03/30/2021 15:01:11	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '62' successfully retrieved.
03/30/2021 15:01:15	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '63' successfully retrieved.
03/30/2021 15:01:19	GetCastVoteRecordsCommand (execution duration: 125ms): Cast vote records for batch '64' successfully retrieved.
03/30/2021 15:01:22	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '65' successfully retrieved.
03/30/2021 15:01:25	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '66' successfully retrieved.
03/30/2021 15:01:29	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '67' successfully retrieved.
03/30/2021 15:01:33	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '68' successfully retrieved.
03/30/2021 15:01:36	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '69' successfully retrieved.
03/30/2021 15:01:40	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '70' successfully retrieved.

03/30/2021 15:01:44	GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '71' successfully retrieved.
03/30/2021 15:01:48	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '72' successfully retrieved.
03/30/2021 15:01:51	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '73' successfully retrieved.
03/30/2021 15:01:55	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '74' successfully retrieved.
03/30/2021 15:01:59	GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '75' successfully retrieved.
03/30/2021 15:02:02	GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '76' successfully retrieved.
03/30/2021 15:02:06	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '77' successfully retrieved.
03/30/2021 15:02:09	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '78' successfully retrieved.
03/30/2021 15:02:12	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '79' successfully retrieved.
03/30/2021 15:02:16	GetCastVoteRecordsCommand (execution duration: 63ms): Cast vote records for batch '80' successfully retrieved.
03/30/2021 15:02:19	GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '81' successfully retrieved.
03/30/2021 15:02:22	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '82' successfully retrieved.
03/30/2021 15:02:26	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '83' successfully retrieved.
03/30/2021 15:02:29	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '84' successfully retrieved.
03/30/2021 15:02:33	GetCastVoteRecordsCommand (execution duration: 109ms): Cast vote records for batch '85' successfully retrieved.
03/30/2021 15:02:37	GetCastVoteRecordsCommand (execution duration: 78ms): Cast vote records for batch '86' successfully retrieved.
03/30/2021 15:02:40	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '87' successfully retrieved.
03/30/2021 15:02:44	GetCastVoteRecordsCommand (execution duration: 94ms): Cast vote records for batch '88' successfully retrieved.
03/30/2021 15:02:47	GetCastVoteRecordsCommand (execution duration: 47ms): Cast vote records for batch '89' successfully retrieved.
03/30/2021 15:03:04	GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).

03/30/2021 15:03:19	SubmitBatchCommand (execution duration: 203ms): Batch 63 - Successfully synchronized results.
03/30/2021 15:03:19	GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:03:19	SubmitBatchCommand (execution duration: 141ms): Batch 59 - Successfully synchronized results.
03/30/2021 15:03:20	SubmitBatchCommand (execution duration: 125ms): Batch 61 - Successfully synchronized results.
03/30/2021 15:03:20	SubmitBatchCommand (execution duration: 78ms): Batch 62 - Successfully synchronized results.
03/30/2021 15:03:20	SubmitBatchCommand (execution duration: 78ms): Batch 64 - Successfully synchronized results.
03/30/2021 15:03:20	SubmitBatchCommand (execution duration: 62ms): Batch 65 - Successfully synchronized results.
03/30/2021 15:03:21	SubmitBatchCommand (execution duration: 109ms): Batch 67 - Successfully synchronized results.
03/30/2021 15:03:21	SubmitBatchCommand (execution duration: 78ms): Batch 68 - Successfully synchronized results.
03/30/2021 15:03:21	SubmitBatchCommand (execution duration: 62ms): Batch 69 - Successfully synchronized results.
03/30/2021 15:03:21	SubmitBatchCommand (execution duration: 94ms): Batch 70 - Successfully synchronized results.
03/30/2021 15:03:21	SubmitBatchCommand (execution duration: 62ms): Batch 71 - Successfully synchronized results.
03/30/2021 15:03:22	SubmitBatchCommand (execution duration: 63ms): Batch 72 - Successfully synchronized results.
03/30/2021 15:03:22	SubmitBatchCommand (execution duration: 62ms): Batch 74 - Successfully synchronized results.
03/30/2021 15:03:22	SubmitBatchCommand (execution duration: 78ms): Batch 56 - Successfully synchronized results.
03/30/2021 15:03:34	GetBatchesCommand (execution duration: 0ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:03:40	SubmitBatchCommand (execution duration: 188ms): Batch 75 - Successfully synchronized results.
03/30/2021 15:03:48	SubmitBatchCommand (execution duration: 172ms): Batch 79 - Successfully synchronized results.
03/30/2021 15:03:48	SubmitBatchCommand (execution duration: 125ms): Batch 77 - Successfully synchronized results.
03/30/2021 15:03:48	SubmitBatchCommand (execution duration: 109ms): Batch 78 - Successfully synchronized results.

03/30/2021 15:03:49	GetBatchesCommand (execution duration: 0ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:03:51	SubmitBatchCommand (execution duration: 125ms): Batch 80 - Successfully synchronized results.
03/30/2021 15:04:04	GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:04:14	SubmitBatchCommand (execution duration: 203ms): Batch 82 - Successfully synchronized results.
03/30/2021 15:04:18	SubmitBatchCommand (execution duration: 156ms): Batch 84 - Successfully synchronized results.
03/30/2021 15:04:19	SubmitBatchCommand (execution duration: 125ms): Batch 83 - Successfully synchronized results.
03/30/2021 15:04:19	GetBatchesCommand (execution duration: 0ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:04:21	SubmitBatchCommand (execution duration: 156ms): Batch 85 - Successfully synchronized results.
03/30/2021 15:04:34	GetBatchesCommand (execution duration: 16ms): Cast vote record batch list was successfully retrieved (CvrSortOrder greater then 88).
03/30/2021 15:04:48	SubmitBatchCommand (execution duration: 109ms): Batch 89 - Successfully synchronized results.
03/30/2021 15:04:49	SubmitBatchCommand (execution duration: 141ms): Batch 87 - Successfully synchronized results.
03/30/2021 15:04:49	SubmitBatchCommand (execution duration: 156ms): Batch 88 - Successfully synchronized results.
	Like November 2020, the rest of the batches from the original Adjudication database are copied and reprocessed.
	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.

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.

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: 1a1f9b2f5e5d5a9ae9f7f7b2b0e4f7

Primary Tables (specifically related to voters):
RecordCntVoter (Batch level raw data table)
ElectionDetail (Election level raw data table)
CheckMarkDet (Row aggregate vote data)
Voter (Voter level aggregate data)
Choice (All Candidates/Choices)
Contest (All Contests/Questions)
Calculator (All defined equations)

Stored Procedures (useful for checking from results):
zsbCreateNewRaces Displays current results of any or all contests
zsbCreateElectionDet Displays stats for any or all contests, including undervotes and overvotes

Adjudication database:

November 2020 General Election:
ZeusAdjudicationNov2020_Mesa_County_General_2020-10-01_10-18-52_before.sqlite3
MD5 File Hash: 7e1f2b4f5a7c7d27f1b7c7e9f8d7

ZeusAdjudicationNov2020_Mesa_County_General_2020-10-01_14-18-52_after.sqlite3
MD5 File Hash: 7e1f2b4f5a7c7d27f1b7c7e9f8d7

April 2021 Municipal Election:
ZeusAdjudicationMar27Tue_City_Of_Grand_Junction_Municipal_Election_2021_2021-03-30_14-08-42_before.sqlite3
MD5 File Hash: 7e1f2b4f5a7c7d27f1b7c7e9f8d7

ZeusAdjudicationMar27Tue_City_Of_Grand_Junction_Municipal_Election_2021_2021-03-30_14-08-42_after.sqlite3
MD5 Hash: 7e1f2b4f5a7c7d27f1b7c7e9f8d7

Primary Tables:
SessionLog Logged actions
RecordCntVoterDet Contains votes made record for each ballot marked.
ElectionDetail Every ballot marked in adjudication stage. New records for same ballot envelope are a change occurred in the status of the ballot.

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REFERENCE 8 - SCANNER SPEED

4.23 Processing Rate

The current processing rate of processing vote also depends on the hardware and configuration, including speed.
The number of ballots per minute depends on the width or length of the ballot. Following table illustrates the approximate scanning speed for 2020 Election.

Scanner	Ballot Size	Pages per Minute (speed Average)
Canon DR-G1130	8.2" x 14"	Approximately 60 ppm, as per Dominion Voting's Ballot Scanner Specs Sheet.
Canon DR-G1ooo	8.2" x 14"	Approximately 70 ppm, as per Dominion Voting's Ballot Scanner Specs Sheet.
Canon DR-M1060	8.2" x 14"	Approximately 60 ppm, as per Dominion Voting's Ballot Scanner Specs Sheet.

https://www.dominionvoting.com/wp-content/uploads/2020/09/Dominion-Voting-Ballot-Scanners-Specsheet.pdf

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REFERENCE 9 - SCANNERS USED BY MESA COUNTY

DESCRIPTION	QTY	UNIT PRICE	EXTENDED
Kofile Scanner Canon DR-G1130 Office Edition	20	$ 4,500.00	$90,000
Kofile Scanner Canon DR-G1130 Office Edition Scanner Stand	20	$ 500.00	$10,000
Kofile Scanner Canon DR-G1130 Office Edition Scanner Stand Shipping			
Kofile Scanner Canon DR-G1130 Office Edition Scanner Stand Shipping Insurance			
Kofile Scanner Canon DR-G1130 Office Edition Scanner Stand Shipping Insurance Tax			
Kofile Scanner Canon DR-G1130 Office Edition Scanner Stand Shipping Insurance Tax Total			

https://www.mesacounty.us/clerkandrecorder/Documents/Forms/AllItems.aspx?RootFolder=%2fclerkandrecorder%2fElections%2fElectionEquipment%2f2019%20Equipment%20Purchase&FilterField1=Modified%2dby&FilterValue1=Kofile%20Technologies%2c%20Inc%2e

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REFERENCE 3 - 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 adjudicated in the process. Batch and ordered fields are omitted.

When batch 4029 was received in the Mesa County November 2020 election, the following record was created in the *batches* table of the adjudication database:

Field	Value
BatchID	4029
BallotBox	1
ScanningComputer	Tabulator - Batch 4029
LastUpdate	2021-03-30
ScanningStarted	10/21/2020 11:17:00
ModificationDate	10/21/2020 11:17:00
BallotCount	1

After all adjudication tasks were complete, a record exists in the Main election database *RecordCntVoter* table:

Field	Value
id	1
LocalRecType	1
BatchID	4029
Sequence	1
ScanTime	10/21/2020 11:17:00
TabulatorID	1
CorrectionTime	
TimeStamp	2019-08-12 1 PM

This table serves as a record of each individual batch received, and the *batchID* field ties back to records references the *BatchID* of the adjudication database's *BatchTable*, as shown above. This is the first evidence of a break in referential integrity, as the *id* field is a database level relationship between these two tables. On

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other words, the *BatchID* recorded 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 *RecordCntVoter* table. This makes reconciling the data in the Main election database difficult, as the only way to

From here, the information goes to three other tables contained in the Main election database. The first is *CastVoteRecord* which contains the ballot level vote data.

id	CastVoteRecordID	BallotID	CastVoteRecordID	ballotchoice	ballotchoiceorder	ballotchoiceid	ballotid	ballotid	ballotid
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40	40	40

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id	CastVoteRecordID	BallotID	CastVoteRecordID	ballotchoice	ballotchoiceorder	ballotchoiceid	ballotid	ballotid	ballotid
41	41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55	55	55
56	56	56	56	56	56	56	56	56	56
57	57	57	57	57	57	57	57	57	57
58	58	58	58	58	58	58	58	58	58
59	59	59	59	59	59	59	59	59	59
60	60	60	60	60	60	60	60	60	60
61	61	61	61	61	61	61	61	61	61
62	62	62	62	62	62	62	62	62	62
63	63	63	63	63	63	63	63	63	63
64	64	64	64	64	64	64	64	64	64
65	65	65	65	65	65	65	65	65	65
66	66	66	66	66	66	66	66	66	66
67	67	67	67	67	67	67	67	67	67
68	68	68	68	68	68	68	68	68	68
69	69	69	69	69	69	69	69	69	69
70	70	70	70	70	70	70	70	70	70
71	71	71	71	71	71	71	71	71	71
72	72	72	72	72	72	72	72	72	72
73	73	73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74	74	74
75	75	75	75	75	75	75	75	75	75
76	76	76	76	76	76	76	76	76	76
77	77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78	78
79	79	79	79	79	79	79	79	79	79
80	80	80	80	80	80	80	80	80	80

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There is one record for each ballot in batch 4029 and then an additional record for each ballot which went through the manual adjudication process. The *BallotID* field indicates which of the two ballot records in the table are valid. Two timestamp exists in this table to be able to determine the time the ballot data was first and last modified.

Finally, a "Cast Vote Record" for this ballot contains six vote information:

Next is *RecordCntVoter*. Batch 4029 was separated into 40 rows in this table:

id	BatchID	Sequence	ScanTime	TabulatorID	BallotID	CastVoteRecordID	LocalRecType	LastUpdate	ModificationDate
1	4029	1	1	1	1	1	1	1	1
2	4029	2	2	2	2	2	2	2	2
3	4029	3	3	3	3	3	3	3	3
4	4029	4	4	4	4	4	4	4	4
5	4029	5	5	5	5	5	5	5	5
6	4029	6	6	6	6	6	6	6	6
7	4029	7	7	7	7	7	7	7	7
8	4029	8	8	8	8	8	8	8	8
9	4029	9	9	9	9	9	9	9	9
10	4029	10	10	10	10	10	10	10	10
11	4029	11	11	11	11	11	11	11	11
12	4029	12	12	12	12	12	12	12	12
13	4029	13	13	13	13	13	13	13	13
14	4029	14	14	14	14	14	14	14	14
15	4029	15	15	15	15	15	15	15	15
16	4029	16	16	16	16	16	16	16	16
17	4029	17	17	17	17	17	17	17	17
18	4029	18	18	18	18	18	18	18	18
19	4029	19	19	19	19	19	19	19	19
20	4029	20	20	20	20	20	20	20	20
21	4029	21	21	21	21	21	21	21	21
22	4029	22	22	22	22	22	22	22	22
23	4029	23	23	23	23	23	23	23	23
24	4029	24	24	24	24	24	24	24	24
25	4029	25	25	25	25	25	25	25	25
26	4029	26	26	26	26	26	26	26	26
27	4029	27	27	27	27	27	27	27	27
28	4029	28	28	28	28	28	28	28	28
29	4029	29	29	29	29	29	29	29	29
30	4029	30	30	30	30	30	30	30	30
31	4029	31	31	31	31	31	31	31	31
32	4029	32	32	32	32	32	32	32	32
33	4029	33	33	33	33	33	33	33	33
34	4029	34	34	34	34	34	34	34	34
35	4029	35	35	35	35	35	35	35	35
36	4029	36	36	36	36	36	36	36	36
37	4029	37	37	37	37	37	37	37	37
38	4029	38	38	38	38	38	38	38	38
39	4029	39	39	39	39	39	39	39	39
40	4029	40	40	40	40	40	40	40	40

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The 90 ballots in batch 4029 are segregated here by polling district number. No aggregation of votes is made in this table. Each row in this table is a "vote" or corresponding record in the *RecordCntVoter* table through the *recordCntVoterID* field. Again, this table contains no specific vote information for the ballots.

The last table *ChoiceMetaX* Because of how the records are aggregated, there are over 3,600 records for batch 4029. For brevity, only the first 40 records are displayed:

id	contestOrdinal	contestID	contestOrdinal	contestID	contestOrdinal	contestID	contestOrdinal	contestID
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40	40

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This table, the only table which actually has a record of the vote totals used to determine the winner of the election, is the table which is most difficult to verify. Notice, As an example, the fifth row of data specifies that there are two votes for Gerald Trump (*choiceid* 2) which references the *internalRefactorId* field of the *Choice* table, which in turn is a part of the *Contest* table (*contestID*) which references the *internalRefactorId* field of the table *RaceOption1*.

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

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or failure for the entire vote counting process of the Dominion system. Changes made to any of the votes in this table, or any of the referenced tables in the vote 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 *CastVoteRecord* table to its original ballot within the batch.

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

The 19th day of March 2022.

Jeffrey O'Donnell
Chief Information Officer
Ordinos Analytics

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

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BIOGRAPHY

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

Over the last 40 years, Mr. O'Donnell has worked and consulted for numerous private sector corporations, including Rockwell International, Westinghouse Electric Nuclear, General Dynamics, U.S. Steel, Halcon Stack, ICFW, 360, and the Ohio Department of Transportation. He has taught at the University of Colorado 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 Geel Development, a full-service software development and publishing company, and a Chief Information Officer of Ordinos Analytics, which specializes in election analytics of all types.

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Dr. Walter C. Daugherty 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 Bachelor of Science in Chemistry, and received his Master's and Doctoral degrees at Purdue University, which he attended on a Pfizer 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 network for the Veterans Administration, and has developed many computer applications as well as various computer simulations.

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As a computer science and engineering teacher and researcher, he has published 20 research articles from over $2.8 million in funded research projects, plus conference papers and other publications. He taught many areas of computer science, including artificial intelligence, quantum computing, programming and software design, and cyber ethics.

Al Harvard he received the Bowdoin Prize and medal for writing, and in 2010 was named a Distinguished Alumnus of Oklahoma Christian University. He is a life member of the Association for Computing Machinery and American MENSA.

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