



Clear Ballot

ClearVote 2.1

ClearAccess System Identification Guide

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Clear Ballot Part Number: 100038-10017

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Document history

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05/15/2017	Initial submission to EAC	1.0	Nel Finberg
06/16/2017	Minor updates for vote-by-mail campaign	1.0.1	Joni G. McNutt
01/19/2018	Vote-by-Mail campaign 2	1.0.2	Joni G. McNutt
01/31/2018	Updated with final file digest data for 1.4 EAC	1.0.3	Joni G. McNutt
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Preface

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

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

About this document

This document enables election officials to verify the software files for the ClearAccess system.



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

Scope of this document

This document contains the following chapters:

- [Verifying ClearAccess software](#)
- [Installed third-party software](#)

Intended audience

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

Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to Documentation@ClearBallot.com.

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

Chapter 1. Verifying ClearAccess software

After installing your ClearAccess software, you need to verify that the SHA-256 hash values of the installed software match those of the certified version. This process ensures that the contents of the software have not been changed by a third-party or altered by malware.

To verify the installed software:

1. At the ClearAccess station, log in to Windows as the ClearAccess user. The ClearAccess program starts up and the ClearAccess login screen appears.
2. Log in with the administrator role and password.
3. Insert a USB drive into one of the ClearAccess station's available USB ports.



Clear Ballot recommends the use of encrypted USB drives. See the *ClearVote Approved Parts List* for approved devices.

4. Click **About**. The About page appears.
 5. Click the **Clear Ballot Product Files** tab and then click the **Export** button.
 6. ClearAccess saves the product file information as a CSV file on the USB drive. A message indicates that the information was saved. Click **OK** to close it.
 7. Close the About page and log out of the ClearAccess station.
 8. Remove the USB drive from the ClearAccess station and insert it into another computer running Microsoft Windows.
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- Another computer is necessary because ClearAccess hardening prevents opening and viewing the file on the ClearAccess station.
9. Use a text or spreadsheet program, such as Notepad or Excel, to open and view the exported file.
 10. Compare the hash values in the exported file to the hash values in the following table.
 - If the hash values match, the software is unmodified and matches the certified version.
 - If the hash values do not match, the software on the station does not match the certified version. The software has been modified, improperly installed, or is nonmatching for some other reason.
 11. If a mismatch is found, do one of the following:
 - Follow jurisdictional procedures to resolve the discrepancy.
 - Contact Clear Ballot Technical Support for assistance.

1.1 Installed ClearAccess product files

The following table lists the file specification, timestamp and SHA-256 hash value for each of the Clear Ballot-authored files installed on the ClearAccess system.

File	Date	File Digest
C:\Program Files (x86)\ClearBallot\ClearAccess\ClearAccess.exe	11/26/201 9 15:04	00ce7f89db88b1a448f5d27dc7dbfe29671a0a7c0294109f479bbd65b94b e50e
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\createUser.ps1	10/15/201 9 19:33	b3f6f692e2d948ed18745cdf4e2908edc28ce7f50de3ba8630c60942c08ff0 9e
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\harden.bat	10/15/201 9 19:33	f7b2ed5b351abd41c5619d6f138409062f329cca6bf1c52d7670f91d558ae 790
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\LGPO.exe	6/1/2017 3:22	f218db26d05c80d105dc779ba4e99c72f37ffc9f78d70d359bbe230713b76 5b4
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\policies\audit.cs v	10/15/201 9 19:33	3908fe1805327ded23dc763641560588bd38ef549810ecd28a6f19197b94 91ba
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\policies\GptTmp l.inf	10/4/2018 19:26	6dc5b2e1132e1635cb502d59fe30acc63cd2326597ee99e1973281e4f033 5927
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\policies\machin e_reg.txt	10/15/201 9 19:33	1934e44f862b4aee4e9ff262bf40e6eb5817c7106957749770d9e31c499ec 582



File	Date	File Digest
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\policies\services .inf	10/4/2018 19:26	10d719b794d3c4a62f926f20e5dd86fe9e772daeaf01f14f81d9d69e913b4 088
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\policies\user_ reg.txt	10/15/201 9 19:33	ee2e0440b918774d2d6887eaaaba9c469fc35d2e6ae22a2518fa68dc8f2af aeb
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\uninstallApps.ps 1	10/15/201 9 19:33	cee8a6fa6c20c2bde21f2551535f48cf2dccc9f05468ee03f3c42c65b97c4a4 4
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\UserRights.ps1	10/15/201 9 19:33	e73f11aca1d52740f3109f8ab45326c4ceba7df1bb558a7bace05cfe47cf6a c6
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0001\setup.iss	2/2/2018 21:24	a78218206d4e00a30e0d15178173df6b48475da1d5e63b6bf0f549786613 7946
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0001\uninstall.iss	2/2/2018 21:25	2e211a1b9c87646f64c18b7007052e980786e0c419d5f2f231604983e905e 969
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0001\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0001.exe	2/2/2018 21:08	8729325e76c09980044e841ce17c562dbfb4d2e0e0ed756e51f574f9592a0 084
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0010\setup.iss	8/20/2018 11:45	3f8a1ba117fe9de444d2823e50f5833b621213e0335f3bc1f71878dc402ae 452



File	Date	File Digest
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0010\uninstall.iss	8/20/2018 11:46	533cbeb09840d8ded814be10bc3395baaeaa37fcf8a29bd9f52fcc344436e4d0
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0010\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0010.exe	8/20/2018 11:08	fd9c9a0adba8c314d00ab5c2e997c47826101d71f32b378b78df3c03df5d6cab
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0013\setup.iss	11/26/201 8 0:32	a33b453793718662b59e81fb153df61afb5f8ccb5290edd43da896169a9bcb94
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0013\uninstall.iss	11/26/201 8 0:33	ae6e5015e2c3cb0da801ec1ae0f89377185b1b3665fe85dcc90e6dec530b0d81
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0013\Zebra_ CoreScanner_Driver_(64bit)_v3.03.0013.exe	11/21/201 8 19:58	1beac6411478b80cb6b9817f2bb9b3bf23c1264212c28851a265ca7313a19696
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0007\setup.iss	7/2/2019 11:28	63d3245c698ea64a5827912958eb6ddf0fc210b8c52716dba82a20a0ea593983
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0007\uninstall.iss	7/2/2019 11:30	a6ad7ef12379723b97ff078d9fa7f1921fe9c3ba3ff886e453fc8877bf959926



File	Date	File Digest
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0007\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0007.exe	7/1/2019 22:27	58b85cdf3e98d3775808ce9fa17df1939afd9ef32ad378c122e112f65eaaa 1d
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0011\setup.iss	9/23/2019 12:27	c905aa22feaba56c42cca87a11904e299328fa7222d489297ba3a64654c39 c14
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0011\uninstall.iss	9/23/2019 12:28	02801f8eadfc041e0d3be3786a370f1e0cac827f17bbdafb2296cfcee3bb3 dd5
C:\Program Files (x86)\ClearBallot\ClearAccess\Support\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0011\Zebra_ CoreScanner_Driver_(64bit)_v3.04.0011.exe	9/23/2019 12:16	cce5219584a67bb4664756dbf4335711d84e01a49b85c793b4736d29f4aa c060
C:\Program Files (x86)\ClearBallot\ClearAccess\uninstall.exe	2/3/2020 12:03	30499ef451bb065a3d503cbfe74c9a374a6b401e7c2283383c3178eb83fb b17c



Chapter 2. Installed third-party software

The following software is installed on the ClearAccess system. Clear Ballot does *not* modify any of the listed third-party software.

Package	Version	Description
BrLauncher	2.0.10.0	32-bit HIDDEN COMPONENT Brother Industries Ltd.
BrLogRx	1.0.3.1	32-bit HIDDEN COMPONENT Brother Industries Ltd.
Brother IPPoverUSB Driver	1.1.0.0	32-bit HIDDEN COMPONENT Brother Industries Ltd.
Brother Printer Driver	1.3.0.0	32-bit HIDDEN COMPONENT Brother Industries Ltd.
BrSupportTools	1.0.19.0	32-bit HIDDEN COMPONENT Brother Industries Ltd.
ClearAccess	2.1.0	32-bit Clear Ballot Group Inc
EloMultiTouch 6.9.2.5	6.9.2.5	"64-bit Elo Touch Solutions, Inc."
Google Chrome	78.0.3904.108	64-bit Google LLC
Google Update Helper	1.3.35.301	32-bit HIDDEN COMPONENT Google LLC
Intel(R) Chipset Device Software	10.1.1.9	64-bit HIDDEN COMPONENT Intel Corporation
Intel(R) Chipset Device Software	10.1.1.9	32-bit HIDDEN COMPONENT Intel(R) Corporation



Package	Version	Description
Intel(R) Processor Graphics	10.18.10.4276	32-bit Intel Corporation
Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030	11.0.61030.0	32-bit Microsoft Corporation
Microsoft Visual C++ 2012 x64 Additional Runtime - 11.0.61030	11.0.61030	64-bit HIDDEN COMPONENT Microsoft Corporation
Microsoft Visual C++ 2012 x64 Minimum Runtime - 11.0.61030	11.0.61030	64-bit HIDDEN COMPONENT Microsoft Corporation
Microsoft Visual C++ 2017 Redistributable (x64) - 14.16.27012	14.16.27012.6	32-bit Microsoft Corporation
Microsoft Visual C++ 2017 X64 Additional Runtime - 14.16.27012	14.16.27012	64-bit HIDDEN COMPONENT Microsoft Corporation
Microsoft Visual C++ 2017 X64 Minimum Runtime - 14.16.27012	14.16.27012	64-bit HIDDEN COMPONENT Microsoft Corporation
Realtek High Definition Audio Driver	6.0.1.7599	32-bit Realtek Semiconductor Corp.
Windows Driver Package - OKI USBDevice (08/26/2014 1.0.0.0)	08/26/2014 1.0.0.0	64-bit OKI
Windows Driver Package - Zebra Technologies Inc. (WinUSB) WinUSB devices (03/31/2018 1.0.0.6)	03/31/2018 1.0.0.6	64-bit Zebra Technologies Inc.
Zebra CoreScanner Driver (64bit)	3.04.0011	64-bit HIDDEN COMPONENT Zebra Technologies
Zebra CoreScanner Driver (64bit)	3.04.0011	32-bit Zebra Technologies