

Senate Engrossed

election management systems; security

State of Arizona
Senate
Fifty-fifth Legislature
Second Regular Session
2022

SENATE BILL 1642

AN ACT

AMENDING TITLE 16, CHAPTER 4, ARTICLE 4, ARIZONA REVISED STATUTES, BY
ADDING SECTION 16-453; RELATING TO CONDUCT OF ELECTIONS.

(TEXT OF BILL BEGINS ON NEXT PAGE)

1 Be it enacted by the Legislature of the State of Arizona:

2 Section 1. Title 16, chapter 4, article 4, Arizona Revised
3 Statutes, is amended by adding section 16-453, to read:

4 16-453. Election management systems; gateway computer
5 standards

6 A. NOT LATER THAN THE 2022 PRIMARY ELECTION, A COUNTY RECORDER OR
7 OTHER OFFICER IN CHARGE OF ELECTIONS MUST HAVE A DEDICATED SPECIAL PURPOSE
8 ELECTION MANAGEMENT SYSTEM GATEWAY COMPUTER THAT MAY BE USED ONLY WHEN
9 NECESSARY TO DO THE FOLLOWING:

10 1. DOWNLOAD DATA FROM AN INTERNET-CONNECTED SYSTEM, INCLUDING
11 DOWNLOADING BALLOT LANGUAGE OR BALLOT FILES, ONTO A MEMORY STICK OR OTHER
12 REMOVABLE ELECTRONIC STORAGE DEVICE FOR UPLOADING TO THE ELECTION
13 MANAGEMENT SYSTEM GATEWAY COMPUTER.

14 2. DOWNLOAD DATA, INCLUDING ELECTION RESULTS FILES, FROM THE
15 ELECTION MANAGEMENT SYSTEM GATEWAY COMPUTER TO A MEMORY STICK OR OTHER
16 SIMILAR DEVICE FOR UPLOADING TO AN INTERNET-CONNECTED SYSTEM.

17 B. THE ELECTION MANAGEMENT SYSTEM GATEWAY COMPUTER SHALL SERVE AS
18 THE INTERNET-CONNECTED SYSTEM FOR THE PURPOSES PRESCRIBED BY THIS SECTION.
19 NO OTHER COMPUTER EXCEPT FOR THE DESIGNATED ELECTION MANAGEMENT SYSTEM
20 GATEWAY COMPUTER MAY BE USED FOR THESE PURPOSES AND THE DESIGNATED
21 ELECTION MANAGEMENT SYSTEM GATEWAY COMPUTER SHALL NOT BE USED FOR ANY
22 OTHER PURPOSE.

23 C. THE FOLLOWING SECURITY PROTOCOLS APPLY TO THE ELECTION
24 MANAGEMENT SYSTEM GATEWAY COMPUTER:

25 1. THE COMPUTER SHALL ONLY BE CONNECTED TO A NETWORK WHEN
26 NECESSARY, SUCH AS TO UPLOAD TO OR DOWNLOAD FROM THE INTERNET OR TO
27 INSTALL NECESSARY SOFTWARE UPDATES. THE COMPUTER SHALL BE DISCONNECTED
28 FROM THE NETWORK BEFORE ANY TRANSFER OF DATA TO OR FROM THE MEMORY STICK
29 OR OTHER DEVICE THAT WAS OR WILL BE CONNECTED TO THE ELECTION MANAGEMENT
30 SYSTEM GATEWAY COMPUTER.

31 2. THE COMPUTER SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN MOVING
32 NECESSARY ELECTION DATA IN TO OR OUT OF THE COMPUTER.

33 3. THE COMPUTER'S OPERATING SYSTEM, BROWSER AND ENDPOINT PROTECTION
34 SOFTWARE SHALL HAVE THE MOST RECENT UPDATES AND SECURITY PATCHES
35 INSTALLED.

36 4. THE COMPUTER SHALL HAVE ENDPOINT PROTECTION SOFTWARE THAT
37 PROTECTS THE COMPUTER FROM MALWARE, VIRUSES, RANSOMWARE, INCURSIONS AND
38 OTHER CYBERSECURITY RISKS, WITH SCANNING CAPABILITY INSTALLED.

39 5. THE COMPUTER SHALL NOT HAVE ANY SOFTWARE INSTALLED OTHER THAN
40 ENDPOINT PROTECTION AND A WEB BROWSER.

41 6. SECURITY SHALL BE THE MOST IMPORTANT CRITERIA WHEN SELECTING A
42 BROWSER.

43 7. A FIREWALL APPLICABLE TO THE OPERATING SYSTEM SHALL BE ENABLED
44 WITH THE FOLLOWING RESTRICTIONS:

45 (a) INCOMING CONNECTIONS ARE PROHIBITED.

1 (b) UNNECESSARY OUTBOUND PORTS ARE PROHIBITED.

2 (c) USE OF AN UNSECURED HYPERTEXT TRANSFER PROTOCOL IS PROHIBITED.

3 (d) CONNECTIONS ARE ALLOWED ONLY TO SPECIFIED INTERNET PROTOCOL
4 ADDRESSES SUCH AS THE ELECTION MANAGEMENT SYSTEM VENDOR DOWNLOAD SITE AND
5 THE SECRETARY OF STATE'S SITE USED FOR ELECTION NIGHT REPORTING.

6 8. IF PRESENT, ALL WIRELESS CONNECTIONS AND FUNCTIONS AND CELLULAR
7 FUNCTIONS SHALL BE DISABLED.

8 9. A WIRELESS MOUSE OR WIRELESS KEYBOARD IS PROHIBITED.

9 10. THE COMPUTER SHALL BE PHYSICALLY SECURED BY THE OFFICER IN
10 CHARGE OF ELECTIONS OR THE OFFICER'S DESIGNEE IN COMPLIANCE WITH THE
11 REQUIREMENTS APPLICABLE TO OTHER ELECTION EQUIPMENT.

12 11. THE DEFAULT ADMINISTRATOR ACCOUNT SHALL BE DISABLED AND
13 CUSTOMIZED ADMINISTRATOR ACCOUNTS WITH SPECIFIC POWERS AND PRIVILEGES MUST
14 BE CREATED, PROVIDING TO PERSONS WITH ADMINISTRATOR ACCESS ONLY THOSE
15 POWERS AND PRIVILEGES NECESSARY FOR THE PERSON'S SPECIFIC JOB DUTIES.

16 12. NORMAL OPERATION OF THE COMPUTER, SUCH AS WHEN NOT CONDUCTING
17 SYSTEM CONFIGURATION OR MAINTENANCE THAT REQUIRES ADMINISTRATOR ACCESS,
18 SHALL BE CONDUCTED WITHOUT ADMINISTRATOR RIGHTS TO ENSURE THAT
19 NONADMINISTRATORS CANNOT INSTALL UNAUTHORIZED SOFTWARE OR OTHERWISE HAVE
20 ACCESS TO THE OPERATING SYSTEM OR INTERNAL FILE STRUCTURES.

21 13. ANY PHYSICAL PORT, PLUG, DOOR OR OTHER METHOD OF PHYSICAL OR
22 ELECTRONIC ACCESS TO THE COMPUTER SHALL BE SECURED IN A MANNER TO PREVENT
23 UNAUTHORIZED ACCESS TO THE COMPUTER.