OHIO BALLOT MARKING DEVICE MATRIX – PRECINCT-BASED MARKING DEVICES
FOR USE BY AN INDEPENDENT TESTING AUTHORITY

NAME OF PRODUCT AND VENDOR:	TESTING AUTHORITY:		
DEVICE REQUIREMENT:	**ACCEPTABLE/ COMPLETE:**	**UNACCEPTABLE/ INCOMPLETE:**	**REQUIREMENT DOES NOT APPLY TO THE DEVICE BEING EXAMINED (EXPLAIN):**
The Ballot Marking Device ("Device") has been tested by an independent testing authority recognized by the National Institute of Standards of Technology (NIST), and it meets or exceeds the requirements established for use in Ohio.			
The Device shall support all election types and permit each voter to vote for all persons and offices for whom and for which the voter is entitled to vote; to vote for as many persons for an office as the elector is entitled to vote for; and to vote for or against any question upon which the elector is entitled to vote. R.C. 3506.06(B).			
The Device shall be durably constructed of material of good quality in a neat and "worklike" manner, and in form that shall make it safely transportable. R.C. 3506.06(E)			
The Device shall be constructed so that a voter may readily learn the method of operating it and may expeditiously cast a vote of his or her choice for all candidates, questions, and issues. R.C. 3506.06(F).			

DEVICE REQUIREMENT:	ACCEPTABLE/ COMPLETE:	UNACCEPTABLE/ INCOMPLETE:	REQUIREMENT DOES NOT APPLY TO THE DEVICE BEING EXAMINED (EXPLAIN):
The Device must not provide the voter any type of receipt or confirmation that the voter can retain after leaving the polling location. R.C. 3506.06(G).			
The Device must include a ballot translation tool that is able to automate the import of any election information extracted from the jurisdiction's current election management system(s). The ballot translation tool must convert election information from the jurisdiction's election management system (EMS) and county voter registration system.			
The Device must be compatible with and able to import correctly the election definition information from at least one election management system in use within the state of Ohio.			
The Device must be compatible with and able to import correctly the election definition information from at least one voter registration system in use within the state of Ohio.			
The Device shall operate without an internet connection and as a standalone device.			
The Device must accurately print a ballot with the marked selections.			
The screen must clearly distinguish between marked selections and unmarked selections.			

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The Device must enable configuration of write-ins in and permit a voter to write-in the name of a person for whom the voter desires to vote. The Device and shall accurately capture a write-in vote. R.C.3506.06(C).			
The Device must support Logic & Accuracy testing (L&A), and election officials must be able to perform L&A testing on each ballot style.			
The vendor must provide technical guidelines and phone support for pre-election L&A testing.			
The Device must display contests one at a time.			
The Device must provide feedback and a clear warning to the voter before the final casting or printing of the ballot that identifies specific contest for which the voter has selected fewer than the allowable number of choices (i.e., undervoted the ballot).			
The Device must allow a voter to verify his/her ballot selections before printing his/her ballot.			
The interface allows the voter to change a vote within a contest before advancing to the next contest.			
The interface must include navigation controls that allow the voter to advance to the next contest before completing a vote on the contest currently being presented.			
The Device must end the voting session after producing the ballot – i.e., a voter cannot vote twice on the Device.			

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The Device must allow the ballot to be reprinted in case of a print failure.			
The Device must enable the voter to move directly from the review screen to the contest screen, make changes on the contest screen, and return from the contest screen to the review screen.			
The Device must enable configuration of ballot rotation according to the Ohio Revised Code. Rotation must match the rotation of the voter's home precinct.			
The Device shall permit a voter, in a presidential election, by one mark, to vote for candidates of one party for president, vice president, and presidential electors. R.C.3506.06(D). In a gubernatorial election, the Device shall permit a voter, by one mark, to vote for candidates of one party for governor and lieutenant governor.			
Voting options must support the use of multiple languages. Specifically, the System must support presentation, marking, and printing of the ballot in English and Spanish.			
The Device must not allow for a voter to over-vote a contest.			

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A voter must select his/her voting options by directly selecting the candidate instead of using a code or indirect selection method.			
SECURITY			
The Device shall permit and require voting in absolute secrecy and shall be constructed so that no person can seek or know for whom any other elector has voted or is voting, except an elector who is assisting a voter as prescribed by R.C. 3505.24. R.C. 3506.06(A).			
Voter anonymity must be maintained with any alternative format ballot presentation.			
The Device must clear immediately any previous voter's selections.			
The Device shall not store any information that identifies any alternative language or accessibility features used by a voter.			
The printing process must be secure.			
If the Device is a software-based solution that utilizes commercial off-the-shelf hardware (e.g., a table or laptop) to run the software, it must not allow the voter to exit the voting session and access the hardware's operating system or settings or any other software, firmware, or application on the hardware.			

DEVICE REQUIREMENT:	ACCEPTABLE/ COMPLETE:	UNACCEPTABLE/ INCOMPLETE:	REQUIREMENT DOES NOT APPLY TO THE DEVICE BEING EXAMINED (EXPLAIN):
ACCESSIBILITY			
The System must meet the following accessibility standards: • Web Content Accessibility Guidelines (WCAG) 2.0; and • Section 508 of the U.S. Rehabilitation Act, Web-based Intranet and Internet Information and Applications (1194.22).			
The Device must provide a user-friendly voter interface, so that the voting process is intuitive and no previous training for using this voting device is necessary. The Device must provide clear plain language instructions and warning messages.			

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The Device shall provide an audio-tactile interface (ATI) that supports the full functionality of the visual ballot interface. The following functionality must exist: • Instructions and feedback on initial activation of the ballot (such as insertion of a smart card), if applicable; • Instructions and feedback to the voter on how to operate the accessible voting station, including settings and options (e.g., volume control, repetition); • Instructions and feedback for navigation of the ballot; • Instructions and feedback for contest choices, including write-in candidates; • Instructions and feedback on confirming and changing votes; and • Instructions and feedback on final submission of ballot.			
At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together.			
At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for assistive technology used by people who are blind or visually impaired shall be provided.			

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The Device must allow for voters with visual deficiencies to utilize it. The following vision deficiencies must be tested for operability and clarity: • Dimness of vision, haziness, film over the eye, and foggy vision; • Extreme near-sightedness or far-sightedness; • Distortion of vision due to color distortion, visual field defects, spots before the eyes, tunnel vision, lack of peripheral vision, abnormal sensitivity to light.			
The Device must allow for a change in the screen's font size from small to large.			
Color coding must not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.			
The Device must allow for a change in brightness of the screen.			
The Device must allow for the screen to be magnified.			
The Device must allow for a change of the screen's contrast from high to low and for a selection of color combinations. The following must be options: • Black text on white background; • White text on black background; • Yellow text on black background; and • Light Cyan text on black background.			

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At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for assistive technology used by people who are deaf or hard of hearing shall be provided.			
The Device must provide synchronized audio output to convey the same information as that which is displayed on the screen and allow a visually impaired voter to navigate through the ballot with the same functionality as a non-ADA voter. The voter must be able to disable or enable – or pause and resume – the audio capability.			
The Device's audio output must allow a voter to skip over the reading of a contest so as to be able to vote on it immediately.			
The Device's audio output must allow a voter to adjust the audio volume and tempo.			
The Device's audio output must allow for audio output in at least the English and Spanish languages.			
At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for assistive technology used by people with disabilities shall be provided.			