

Democracy Suite[®] ImageCast[®] X Machine Configuration File (MCF) Parameters Settings

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CHAPTER 1: INTRODUCTION

The purpose of this document is to explain how to perform basic operations on the ImageCast® X devices.

1.1 Relevant Disclaimers

This document may make reference to certain Democracy Suite functionalities that are not part of the current 5.11-CO campaign and should be disregarded throughout the document.

For a full list of relevant disclaimers, please see the “Relevant Disclaimers” section in the *2.02 - Democracy Suite System Overview* Document.

CHAPTER 2: MAIN SETTINGS

This document provides a technical description of the ImageCast® X, designed and manufactured by Dominion Voting.

It describes the Machine Configuration File (MCF) that is used to configure the ImageCast® X.

The MCF file contains all the device configuration settings needed for the customized functioning of the ImageCast® X.

2.1 Main settings

Option Name	Drop-down List Options / Values	Option / Value Description
Operating Mode	<ul style="list-style-type: none"> BMD - Ballot Marking Device DRE - Direct Recording Electronic (default) 	Indicates the voting mode variant that will be applied to the chosen tabulator. If BMD is selected, the ResultLocation option is automatically disabled.
Connectivity Mode (Read only)	<ul style="list-style-type: none"> Standalone (default) 	'Standalone' option represents state of the machine indicating that there is no network present, and all communication is done through local mediums.
Full Face mode (Read only)	<ul style="list-style-type: none"> False 	Indicates if Full Face mode is allowed.

Table 2-1: Main Settings

Option Name	Drop-down List Options / Values	Option / Value Description
Result locations	Text (default - "usb1 device")	This is a list of paths where the result file will be stored after each cast vote. The value is separated by ' ' and used only if the DRE operating mode is selected. If the Operating Mode is set to BMD is, the Result Location is automatically disabled.
Authentication type (Read only)	<ul style="list-style-type: none"> • Chip_Card - Smart card authentication 	Indicates how a voting session should be started.
Initial font size	<ul style="list-style-type: none"> • Normal (default) • Big 	The initial font size on voting screen.

Table 2-1: Main Settings (Continued)

2.1.1 Admin options

All settings related to admin options.

Option Name	Drop-down List Options / Values	Option / Value Description
Change tabulator on poll worker menu	<ul style="list-style-type: none"> • True • False (default) 	Indicates if the tabulator can be changed on ready to open poll.
Reset button	<ul style="list-style-type: none"> • Poll Worker (default) • Technician 	Reset button visibility configuration
Admin authentication for a manual voting session	<ul style="list-style-type: none"> • True • False (default) 	Indicates whether Admin authentication is required when activating manual voting session.
Default tab for admin login dialog	<ul style="list-style-type: none"> • Admin Login (default) • Ballot Activation 	Indicates whether the default tab that will be shown in the admin login dialog.

Table 2-2: Admin options

2.1.2 Voter card settings

All settings related to voter card settings.

Option Name	Drop-down List Options / Values	Option / Value Description
Invalidate voter card	<ul style="list-style-type: none"> • True (default) • False 	Indicates if the voter card will be invalidated after voting session. Set this to 'false' if you want to re-use voter cards n-number of times.
Voter Card validity	<ul style="list-style-type: none"> • True • False (default) 	Verifies Voter card validity by referring to the card expiration time, if set.
Voter card expiration time	Number (default - 30)	This options allows the option of setting an expiration time for a particular voting card, should circumstances demand it.
The number of re-reading voter card	Number (default - 20)	This describes the how many times the voter card is read again during simulation, after the printer returns the "Not ready" status.

Table 2-3: Voter card settings

2.1.3 Voter fled options

All settings related to voter fled.

Option Name	Drop-down List Options / Values	Option / Value Description
Handling voter flee situation	True (default) False	This option enables, if set to True, handling of the voter fled scenario. It allows the user to continue voting even if the Voter card is removed, as intended in handling the voter fled scenarios.
Allow cast of voter fled ballot	<ul style="list-style-type: none"> • True • False(default) 	Poll Worker can cast a ballot of an abandoned voting session.

Table 2-4: Voter fled options

Option Name	Drop-down List Options / Values	Option / Value Description
Voter fled ballot cast mode	<ul style="list-style-type: none"> • CAST_BLANK_BALLOT • CAST_BALLOT_WITH_SELECTIONS (default) 	Allows the Poll Worker to cast a ballot of an abandoned voting session in the current condition or as a blank ballot.

Table 2-4: Voter fled options

2.1.4 Ballot screen layout

All settings related to ballot screen layout.

Option Name	Drop-down List Options / Values	Option / Value Description
Voting box alignment-right	<ul style="list-style-type: none"> • True (default) • False 	Indicates where the voting box should be placed, meaning if this is 'true' voting box will be aligned on the right side of the screen, otherwise it will be aligned on the left side.
Show vote rule violations on the ballot	<ul style="list-style-type: none"> • True (default) • False 	Indicates if vote rule violations will be visible on the ballot during the voting session.
Show instructional contests	<ul style="list-style-type: none"> • True - visible contests • False - not visible contests (default) 	Indicates if instructional contests should be visible.

Table 2-5: Ballot screen layout

Option Name	Drop-down List Options / Values	Option / Value Description
Show contests' stripe	<ul style="list-style-type: none"> • True - visible contests' stripe default) • False - not visible contests' stripe 	Indicates whether or not the contests' stripe should be visible.
Show page number	<ul style="list-style-type: none"> • True • False (default) 	Indicates if the page number will be visible during the voting session.
Show party name	<ul style="list-style-type: none"> • True • False (default) 	Indicates if the selected party name will be visible during the voting session.
Show precinct name	<ul style="list-style-type: none"> • True • False (default) 	Indicates if the precinct name will be visible.
Number of columns	Number (1-6, default value - 1)	This option allows for the contests to be split into a defined number of columns.

Table 2-5: Ballot screen layout (Continued)

2.1.5 Ballot print layout

All settings related to ballot print layout.

Option Name	Drop-down List Options / Values	Option / Value Description
Print party abbreviation for choices	<ul style="list-style-type: none"> • True (default) • False 	Configures whether the party abbreviation for choices is printed on the ballot.
Print party abbreviation for contests	<ul style="list-style-type: none"> • True (default) • False 	Configures whether the party abbreviation for contests is printed on the ballot.

Table 2-6: Ballot print layout

2.1.6 Voting rules

Voting rules section contains settings that define behavior of the application during the voting session, and how will be treated individual cases and applied rules for a valid note.

Option name	Drop-down List Options / Values	Option / Value Description
Cast rule - undervote	<ul style="list-style-type: none"> • NONE - Undervoted contest will be accepted. Voter will not get a warning message about undervoted contest. • PROMPT (default) - Undervoted contest will be accepted. During the voting session voter will be inform about undervoted contest with warning message "This contest is undervoted!". • BLOCK - Undervoted contest is unacceptable. Ballot can't be casted. Voter will be given an error message "This contest is undervoted!". 	Indicates how ICX application should handle the case of an undervote.

Table 2-7: Voting Rules

Option name	Drop-down List Options / Values	Option / Value Description
Cast rule - overvote (READ ONLY)	<ul style="list-style-type: none"> • NONE - Overvoted contest will be accepted. Voter will not get a warning message about overvoted contest. • PROMPT - Overvoted contest will be accepted. During the voting session voter will be inform about overvoted contest with warning message "This contest is overvoted!". • BLOCK - (default) Overvoted contest is unacceptable. Ballot can't be casted. Voter will be given an error message "This contest is overvoted!". 	Indicates how ICX application should handle the case of an overvote.

Table 2-7: Voting Rules (Continued)

Option name	Drop-down List Options / Values	Option / Value Description
Cast rule - blank contest	<ul style="list-style-type: none"> • NONE - Blank contest will be accepted. Voter will not get a warning message about blank contest. • PROMPT (default)- Blank contest will be accepted. During the voting session voter will be inform about blank contest with warning message "This contest is blank!". • BLOCK - Blank contest is unacceptable. Ballot can't be casted. Voter will be given an error message "This contest is blank!". 	Indicates how ICX application should handle the case of a blank contest.

Table 2-7: Voting Rules (Continued)

Option name	Drop-down List Options / Values	Option / Value Description
Cast rule - blank ballot	<ul style="list-style-type: none"> • NONE - Blank ballot will be accepted. Voter will not get a warning message about blank ballot on the review page. • PROMPT (default) - Blank ballot will be accepted. On the review page voter will be inform about blank ballot with warning message "Your ballot is valid! Your ballot is blank!". • BLOCK - Blank ballot is unacceptable. Blank ballot can't be casted. Voter will be given an error message "Your ballot is not valid and can not be cast.". 	Indicates how ICX application should handle the case of a blank ballot.

Table 2-7: Voting Rules (Continued)

2.1.7 Report printer type

Report printer options.

Option Name	Drop-down List Options / Values	Option Name
Report printer type	<ul style="list-style-type: none"> • NONE - no printer selected, reports and votes won't be printed (default) • THERMAL - The thermal printer on which only reports will be printed • VVPAT - The VVPAT printer on which both reports and votes at the end on voting session will be printed. 	The type of printer that will be used primary for reports and in case of VVPAT for printing votes after voting session is complete.
Print report on poll open	<ul style="list-style-type: none"> • True - start printing report immediately (default) • False - don't print report immediately 	Indicates if zero report will start printing right after the poll is opened and before the login voter screen appears.
Print report on poll close	<ul style="list-style-type: none"> • True - start printing report immediately (default) • False - don't print report immediately 	Indicates if summary report will start printing right after the poll is closed.
Printing parameters	<ul style="list-style-type: none"> • OVERRIDE (default) • DEFAULT 	If value is 'DEFAULT' the VVPAT printer will use it's factory default settings. If value is 'OVERRIDE' the VVPAT printer will use configuration settings from this file that you can edit.

Table 2-8: Report printer type

Option Name	Drop-down List Options / Values	Option Name
Print speed	<ul style="list-style-type: none"> • HIGH (default) • MEDIUM • LOW • SILENT 	Thermal and VVPAT printing speed.
Cancelable printing report	<ul style="list-style-type: none"> • True - Option enabled • False - Option disabled (default) 	This option allows the user to cancel report printing after the printing process has started. Upon tapping the cancel button, the user will see a dialog allowing them to: reprint the report, continue printing, save report to file and cancel. After confirming the cancellation, the report printing will be cancelled.

Table 2-8: Report printer type (Continued)

2.1.7.1 VVPAT options

All settings related to VVPAT options.

Option Name	Drop-down List Options / Values	Option / Value Description
Light duration after voting	Number - value is in seconds (default - 5)	The time that the light will be turned on, on the VVPAT printer after any printing action on it. Those actions can be: cast ballot, reject ballot, print report, print information on open/ close poll, after changing paper roll etc.
Big font size	Range value from 20 to 40 (default - 40)	The font size of text that will be printed on VVPAT printer when printing selection for voting session where the voter selected text size to be 'Big'.
Normal font size	Range value from 20 to 40 (default - 30)	The font size of text that will be printed on VVPAT printer when printing selection for voting session where the voter selected text size to be 'Normal'.

Table 2-9: VVPAT options

Option Name	Drop-down List Options / Values	Option / Value Description
VVPAT Polling status	<ul style="list-style-type: none"> • True - start printer status check (default) • False - don't check printer status 	Indicates if VVPAT printer status is always being checked once the poll is open. This is useful for constant monitoring of the printer, so if an error occurs the user will be notified immediately.
Number of lines	Number (default - 18)	Number of lines that will be printed on the VVPAT when printing selections, doesn't depend on the font size.
VVPAT printer blackening level	Range value from 0 to 50 (default - 50)	Printout darkness intensity level. Lower value produces lighter printout, higher value produces darker printout.
Turn the LED off on door open	<ul style="list-style-type: none"> • True - Light is turned off on door open (default) • False - Light remains turned on on door open 	Turn LED off when the door of the VVPAT is open, turn it back on when the door is closed.
Print unique voter identifier	<ul style="list-style-type: none"> • True - Option enabled (default) • False - Option disabled 	Print unique voter identifier on VVPAT when casting ballot.

Table 2-9: VVPAT options (Continued)

Option Name	Drop-down List Options / Values	Option / Value Description
Language used for printing	<ul style="list-style-type: none"> English only (default) Localized 	Language that will be used for printing the ballot during a voting session.

Table 2-9: VVPAT options (Continued)

2.1.7.2 Print of election information

All settings related to Print of election information.

Option Name	Drop-down List Options / Values	Option / Value Description
Print start barcode	<ul style="list-style-type: none"> True - print (default) False - don't print 	Indicates if start barcode with human readable text will be printed on the start of each vote. Start barcode contains the following in both barcode and human readable text: Precinct Id ('pct'), Ballot style ('bs'), Voting session identifier ('vsi'), Unique identifier ('uvi') and Vote type('vt').
Show additional information in start barcode	<ul style="list-style-type: none"> True (default) False 	Indicates what information will be in a barcode and what in human readable text that will be printed on the start of each vote. If the value is 'false' only vote status "START" will be printed in both barcode and human readable text. If the value is 'true' the following will be printed in both barcode and human readable text: Precinct Id ('pct'), Ballot style ('bs'), Voting session identifier ('vsi'), Unique identifier ('uvi') and Vote type ('vt').

Table 2-10: Print of election information

Option Name	Drop-down List Options / Values	Option / Value Description
Print end barcode	<ul style="list-style-type: none"> • True - print (default) • False - don't print 	Indicates if the end barcode with human readable text will be printed on the end of each vote. If the value is 'false' the human readable text containing Unique identifier will be printed. If the value is 'true' the following will be printed in the barcode: Unique identifier ('uvi') and the Vote status ('vst') (START, ACCEPTED, REJECTED, FAILED or CANCELED) and the human readable text will contain Unique identifier ('uvi').
Print election information on open/ close poll and paper roll change	<ul style="list-style-type: none"> • True - print (default) • False - don't print 	Indicates if the following election information on VVPAT will be printed every time when poll open, poll close and when paper roll on VVPAT is changed. Election information containing the following is printed only as human readable text: Election name, Election date, Voting location name, Tabulator name, Counting group name, Open poll/Close poll/Paper roll change date/time, Voting session id and Public counter.
Print election information on first page of ballot	<ul style="list-style-type: none"> • True - print (default) • False - don't print 	Indicates if election information containing ballot header information will be printed on the first page of the ballot.

Table 2-10: Print of election information (Continued)

2.1.7.3 QR Codes

All settings related to QR codes.

Option Name	Drop-down List Options / Values	Option / Value Description
VVPAT-maximum QR code size	Number - number of characters (default - 300)	This value indicates max number of characters that will be stored in QR code and printed as human readable text. This limitation helps better performance of the scanner because the QR code is smaller and easier to scan.
Delay between two QR codes	Number - value is in seconds (default - 0)	Delay time between print of two QR codes on VVPAT. 0 is no delay.
Ignore QR read errors	<ul style="list-style-type: none"> • True - ignore QR errors • False - don't ignore QR code errors (default) 	Ignore errors on QR code scan, if 'True' QR code errors are ignored and barcode scan is considered to be successful. Select 'True' only for Hardware testing.
Store misread QR code	<ul style="list-style-type: none"> • True - store misread code (default) • False - don't store misread code 	When there is an error on the QR code scan, save BIN and PNG of the QR code on the file system.

Table 2-11: QR Codes

Option Name	Drop-down List Options / Values	Option / Value Description
Print QR code only in AVS mode	<ul style="list-style-type: none"> • True - print only selections • False - print QR code with selections (default) 	Print QR code only when voting session is in AVS mode, otherwise print just selections without the QR code.
Number of times to re-scan QR code	Number (default - 6)	Number of times that QR code will be re-scanned if the initial scan (or any of the following scans) of the QR code fails.

Table 2-11: QR Codes (Continued)

2.1.8 Electronic mobile ballot

Settings related to BMD mode and print of the ballot on the BMD printer.

Option Name	Drop-down List Options / Values	Option / Value Description
Maximum No. of QR codes	Number (default - 20)	Max number of QR codes that will be printed per ballot on the BMD printer.
Maximum No. of characters per column	Number (default - 30)	Max number of characters per column that will be printed in audit text.
Subheader font size	Number (default - 10)	Font size of the sub-header on the paper ballot. Sub- header is located below the header.

Table 2-12: Electronic Mobile Ballot

Option Name	Drop-down List Options / Values	Option / Value Description
Left sub-header	<ul style="list-style-type: none"> • NONE (default) • PRECINCT • PRECINCT_PORTION • BALLOT_ID • BALLOT_TYPE • ACTIVATION_CODE 	<p>This is the content of the sub-header that will be aligned on the left side of the paper and bellow the header. Depending on the option selected appropriate content will be printed, except when selected option is NONE because in that case nothing will be printed.</p>
Right sub-header	<ul style="list-style-type: none"> • NONE (default) • PRECINCT • PRECINCT_PORTION • BALLOT_ID • BALLOT_TYPE • ACTIVATION_CODE 	<p>This is the content of the sub-header that will be aligned on the right side of the paper and bellow the header. Depending on the option selected appropriate content will be printed, except when selected option is NONE because in that case nothing will be printed.</p>
Maximum No. of spoiled ballots	Number (default - 2)	<p>Max number of allowed rejections of the ballot, meaning that this is the max number of times that a voter can reject it's ballot. When the value is 0 the voter can reject ballot infinite number of times.</p>
Show ballot content on the ballot header page	<ul style="list-style-type: none"> • True (default) - Show ballot content on ballot header page • False - Doesn't show ballot content on ballot header page 	<p>Configures showing ballot content on the first, ballot header page.</p>

Table 2-12: Electronic Mobile Ballot (Continued)

Option Name	Drop-down List Options / Values	Option / Value Description
Print provisional code on BMD ballot	<ul style="list-style-type: none"> • NOT_VISIBLE (default) - Provisional data is not visible in the subheader. • SHOW_LABEL - Only the conditional label is shown in the subheader. • SHOW_LABEL_AND_CODE - The conditional mode and code are shown. 	Configures whether the Provisional/Challenged code is shown in the subheader of the BMD ballot. Note that the subheader must be shown on the ballot for this option to work.
Paper ballot font size	<ul style="list-style-type: none"> • True • False (default) 	Configures the text font size on screen to match the paper ballot. If it's set to TRUE, the previously selected font size will be printed on the ballot (Normal-10 points or Big-15 points). If it's set to FALSE, the paper ballot will always be printed as Normal size, regardless of the font size choice.

Table 2-12: Electronic Mobile Ballot (Continued)

2.1.9 Paper ballot contest splitting

All settings related to splitting contests in paper ballot.

Option Name	Drop-down List Options / Values	Option / Value Description
Split contests	<ul style="list-style-type: none"> • True • False (default) 	Splits the contest between columns.

Table 2-13: Paper ballot contest splitting

Option Name	Drop-down List Options / Values	Option / Value Description
Show contest continuation messages	<ul style="list-style-type: none"> • True • False (default) 	Show a continued messages when the contest is split.
Show contest title in continued column/page	<ul style="list-style-type: none"> • True • False (default) 	Prints the contest title on top of the column/page in which the contest is continued.

Table 2-13: Paper ballot contest splitting (Continued)

2.1.10 AVS - Accessible Voting Session

Settings related to the AVS - Accessible Voting Session.

Option Name	Drop-down List Options / Values	Option / Value Description
Initial audio volume	Range from LEVEL_0 to LEVEL_8 (default - LEVEL_5)	The initial audio volume level that the voter will hear after starting the voting session
Message repeat count	Number (default - 3)	Number of times that a voter message/instruction will be repeated.
Repeat instruction on volume/speed change	<ul style="list-style-type: none"> • True • False (default) 	Replay instruction if volume or speed are changed.
Message pause interval	Number - value is in seconds (default - 4)	Duration of the pause between messages.

Table 2-14: Accessible Voting Session

2.2 Audible tone

Audible tone voting feedback.

Option Name	Drop-down List Options / Values	Option / Value Description
Audible tone on voting session activation	<ul style="list-style-type: none"> • True • False (default) 	Produces an audible tone when a voter session has been activated.
Audible tone on vote cast	<ul style="list-style-type: none"> • True • False (default) 	Produces an audible tone when a ballot has been cast (DRE) or printed (BMD).
Error sound duration	Number (default - 15)	Produces an audible tone when an error occurs. The number value is in seconds.

Table 2-15: Audible tone

2.2.1 Timeouts

Settings related to application timeouts.

Option Name	Drop-down List Options / Values	Option / Value Description
Information Page Timeout	Number - value in seconds (default - 15)	Represents the amount of time (in seconds) that a Info Page will be shown to the voter before returning to the initial Login Screen. 0 means no timeout, the Info Page will stay presented to the voter.
Ballot recovery timeout	Number - value in seconds (default - 300)	Waiting for ballot recover in seconds, 0 means no timeout.
Inactivity timeout	Number - value in seconds (default - 0)	Number of seconds to wait for voter response after presenting the inactivity warning dialog. Disabled if inactivity warning timeout is set to 0.

Table 2-16: Timeouts

Option Name	Drop-down List Options / Values	Option / Value Description
Inactivity warning timeout	Number - value in seconds (default - 20)	Number of seconds before showing an inactivity warning dialog to the voter. Disabled if set to 0.

Table 2-16: Timeouts (Continued)

2.2.2 Battery

Settings related to internal or UPS battery.

Option name	Drop-down List Options / Values	Option/Value Description
UPS Battery warning threshold	Number (default - 25)	If UPS battery reaches this percentage a warning dialog will be shown on administration screen and on login voterscreen.
UPS Battery critical threshold	Number (default - 10)	If UPS battery reaches this percentage a critical warning dialog will be shown and starting a voting session is not possible. Previously started session can be finished.
Battery warning threshold	Number (default - 20)	If battery reaches this percentage a warning will be shown.
Battery critical threshold	Number (default - 5)	If battery reaches this percentage a critical warning dialog will be shown and starting a voting session is not possible. Previously started session can be finished.

Table 2-17: Battery

2.2.3 Write-In

Write-in choice related settings.

Option Name	Drop-down List Options / Values	Option / Value Description
Maximum length of a write-in name (READ ONLY)	Number (default - 30)	Maximum length of a write-in name to be entered. If voter try to enter more characters than this value a warning dialog will be prompted.

Table 2-18: Write-In

2.2.4 Report

Report print settings.

Option Name	Drop-down List Options / Values	Option / Value Description
Report grouping type	<ul style="list-style-type: none"> • PER_BALLOT (default) - Grouping report results per ballot. • PER_PRECINCT - Grouping report results per precinct. • PER_CONTEST - Grouping report results per contest. • PER_ACTIVATION_CODE - Grouping results per ballot set. 	Mode of grouping results.
Number of zero report copies	Number (default - 1)	Define number of copies of zero tapes that will be printed.
Number of result report copies	Number (default - 1)	Define number of copies of result tapes that will be printed.
Print totals at the end of report	<ul style="list-style-type: none"> • True (default) • False 	Print totals at the end of zero and summary report.

Table 2-19: Report

2.2.4.1 Report labels

All settings related to report label.

Option Name	Drop-down List Options / Values	Option / Value Description
Ballot ID label	Text (default - "Ballot ID")	This defines the label of ballot id property of the item that is printing in ballot list in header part of the report.
Ballot name label	Text (default - "Ballot Name")	This defines the label of ballot name property of the item that is printing in ballot list in header part of the report.
Ballot cast label	Text (default - "Ballots Cast")	This defines the label of ballot casts number property of the item that is printing in ballot list in header part of the report.
Activation code label	Text (default - "Activation Code")	This defines the label of the activation code property.
Ballot sets label	Text (default - "Ballot Sets Cast")	This defines the label of the ballot sets cast number property.
Precinct label	Text (default - "Precinct")	Precinct label value on report, if the previous option "Should print precinct list" is set on TRUE.
Total cast label	Text (default - "Total Cast")	Total cast label value on report, if the previous option "Should print total cast" is set on TRUE.
Total voters label	Text (default - "Total Voters")	Total voters label value on report, if the previous option "Should print total voters" is set on TRUE.
Total ballot sets label	Text (default - "Total Ballot Sets Cast")	This defines the label of the total ballots sets property.

Table 2-20: Report labels

2.2.4.2 Report header

All settings related to report header.

Option Name	Drop-down List Options / Values	Option / Value Description
Top line pattern- Header	Text (default - "*")	Define character pattern that will be used as separator line in the report header.
Should print tabulator name	<ul style="list-style-type: none"> • True (default) - Print tabulator name in report • False - Don't print tabulator name in report 	Indicates the existence of information about tabulator name on printing reports.
Tabulator name label	Text (default - "Tabulator Name")	Tabulator name label value on report, if the previous option "Should print tabulator name" is set on TRUE.
Should print tabulator number	<ul style="list-style-type: none"> • True (default) - Print tabulator number in report • False - Don't print tabulator number in report 	Indicates the existence of information about tabulator number on the printing reports.
Tabulator number label	Text (default - "Tabulator Number")	Tabulator Number label value on report, if the previous option "Should print tabulator number " is set on TRUE.
Should print voting location	<ul style="list-style-type: none"> • True (default) - Print voting location in report • False - Don't print voting location in report 	Indicates the existence of information about the voting location on the printing reports.
Voting location label	Text (default - "Voting Location")	Voting Location label value on report, if the previous option "Should print voting location" is set on TRUE.

Table 2-21: Report header

Option Name	Drop-down List Options / Values	Option / Value Description
Should print voting location ID	<ul style="list-style-type: none"> • True (default) - Print voting location identifier in report • False - Don't print voting location identifier in report 	Indicates the existence of information about the voting location ID on the printing reports.
Voting location ID label	Text (default - "Voting Location ID")	Voting Location ID label value on report, if the previous option "Should print voting location Id" is set on TRUE.
Should print precinct list	<ul style="list-style-type: none"> • True (default) - Print precinct list for selected tabulator in report • False - Don't print precinct list in report 	Indicates the existence of information about the precinct list for selected tabulator on the printing reports.
Header divide line pattern	Text (default - "- ")	Define character pattern that will be used as divide line between sections in report.
Should print total cast	<ul style="list-style-type: none"> • True (default) - Print total cast information for selected tabulator in report • False - Don't print total cast information in report 	Indicates the existence of information about the total number of casts for selected tabulator on the printing reports.

Table 2-21: Report header (Continued)

Option Name	Drop-down List Options / Values	Option / Value Description
Should print total voters	<ul style="list-style-type: none"> • True (default) - Print total voter information for selected tabulator in report • False - Don't print total voter information in report 	Indicates the existence of information about the total number of voters for selected tabulator on the printing reports.
Should print ballot list	<ul style="list-style-type: none"> • True (default) - Print ballot list information. • False - Don't print ballot list information. 	The option is used to enable or disable printing of full ballot list containing in tabulator in header part of the report. Ballot item information could be ballot id, name of the ballot and ballot casts.
Should print activation code list	<ul style="list-style-type: none"> • True - Print total cast information for selected tabulator in report • False (default) - Don't print total cast information in report 	This setting defines whether or not the activation code list should be printed in the Header of the ballot.

Table 2-21: Report header (Continued)

2.2.4.3 Report body

All settings related to report body.

Option Name	Drop-down List Options / Values	Option / Value Description
Body separator line	Text (default - "=")	Define character pattern that is used to constructs separator line between the body and header parts of the report.

Table 2-22: Report footer

Option Name	Drop-down List Options / Values	Option / Value Description
Total votes label	Text (default - "Total Votes")	Defines the label value for total votes information inside the contest.
Body header label in per contest mode	Text (default - "TOTALS for all Ballots")	Defines the label value for totals of ballots information inside body part of the report in case of no grouping (printing summary result per contest).
Ballots cast label	Text (default - "Ballots Cast")	Defines the label value for ballots cast.
Should print total cast	<ul style="list-style-type: none"> • True (default) - Print total cast information for selected tabulator in report • False - Don't print total cast information in report 	Indicates the existence of information about the total number of casts for selected tabulator on the printing reports.
Activation description label	Text (default - "Description")	Defines the activation description label property to be shown in the body of the report.

Table 2-22: Report footer (Continued)

2.2.4.4 Report footer

All settings related to report footer.

Option Name	Drop-down List Options / Values	Option / Value Description
Top line pattern - Footer	Text (default - "- ")	Defines character pattern that is used to construct separator line between the body and footer parts of the report.
Signature line pattern	Text (default - "-")	Defines character pattern that is used to constructs lines as places for election officials signatures.

Table 2-23: Report footer

Option Name	Drop-down List Options / Values	Option / Value Description
Bottom line pattern	Text (default - "_")	Defines character pattern that is used to construct ending of the report footer.
Should print unit model	<ul style="list-style-type: none"> • True (default) - Print unit model information • False - Don't print this information 	The option is used to enable or disable printing of unit model in footer part of the report.
Unit model label	Text (default - "Unit Model")	Defines the label value for unit model information inside footer part of the report.
Should print unit serial	<ul style="list-style-type: none"> • True (default) • False 	The option is used to enable or disable printing of unit serial of unit in footer part of the report.
Unit serial label	Text (default- "Unit Serial")	Defines the value for unit serial label information inside footer part of the report.
Should print protective counter	<ul style="list-style-type: none"> • True (default) - Print protective counter number of unit • False - Don't print this information 	The option is used to enable or disable printing of protective counter of unit in footer part of the report.
Protective counter label	Text (default - "Protective Counter")	Defines the label value before the protective counter of unit inside footer part of the report.
Should print version number	<ul style="list-style-type: none"> • True (default) - Print unit version number • False - Don't print this information 	The option is used to enable or disable printing of version number of unit in footer part of the report.
Version number label	Text (default - "Software Version")	Defines the label value before the software version of unit inside footer part of the report.

Table 2-23: Report footer (Continued)

Option Name	Drop-down List Options / Values	Option / Value Description
Should print certification text	<ul style="list-style-type: none"> • True (default) - Print certification text • False - Don't print this information 	The option is used to enable or disable printing of certification text before the election officials signature places in footer part of the report.
Certification label	Text (default - "Certification")	Defines the label value before the certification text inside footer part of the report.
Certification text	Text (default - "WE, THE UNDERSIGNED ELECTION OFFICIALS, HEREBY CERTIFY THAT THE ABOVE ELECTION WAS HELD IN ACCORDANCE WITH THE LOCAL AUTHORITY ELECTION ACT AND REGULATIONS OF THIS JURISDICTION.")	Defines the certification text inside footer part of the report.
Number of official signature lines	Number (default - 4)	Defines the number of signature places.
Signature label	Text (default - "Election Official")	Defines the text bellow the signature line.
Should print closing status	<ul style="list-style-type: none"> • True (default) - Print status of poll • False - Don't print this information 	The option is used to enable or disable printing status of the poll.
Result report footer message	Text (default - "Poll closed")	Defines the text that printing when the poll is closed.
Zero report footer message	Text (default - "Results are zero. Unit ready.")	Defines the text that printing when the poll is opened.

Table 2-23: Report footer (Continued)

Option Name	Drop-down List Options / Values	Option / Value Description
Should print closing time	<ul style="list-style-type: none"> • True (default) - Print poll closing time • False - Don't print this information 	The option is used to enable or disable printing of the time when poll has been closed.

Table 2-23: Report footer (Continued)

2.3 LED indicator light - configurable indication

The Poll Worker Indicator light, located on the ImageCast[®] X device, serve the purpose of informing the Poll Worker of the status of the device. Depending on the LED Indicator color the Poll Worker will be able to determine the status of the voting process and whether or not the voter requires assistance.

In case the LED Indicator light hasn't been connected the ImageCast[®] X device can function unimpeded.

Depending on the status of the indicator lights, various colors can signalize the following statuses:

Status	Drop-down List Options / Values	Option / Value Description
Available for voting	<ul style="list-style-type: none"> • NO_INDICATION • SOLID_GREEN (default) • FLASHING_GREEN • SOLID_YELLOW • FLASHING_YELLOW • SOLID_RED • FLASHING_RED 	Indicates that the unit is inactive, i.e. the unit is ready for the following voter.

Table 2-24: Voting status

Status	Drop-down List Options / Values	Option / Value Description
Voting in progress	<ul style="list-style-type: none"> • NO_INDICATION • SOLID_GREEN • FLASHING_GREEN • SOLID_YELLOW (default) • FLASHING_YELLOW • SOLID_RED • FLASHING_RED 	Indicates that the unit is in use. The voting session is in progress. Once the voting session is successfully completed the light reverts to the 'DeviceInactive' state.
Error Occurred	<ul style="list-style-type: none"> • NO_INDICATION • SOLID_GREEN • FLASHING_GREEN • SOLID_YELLOW • FLASHING_YELLOW • SOLID_RED • FLASHING_RED (default) 	A technical issue has lead to an error during the voting process on the ImageCast® X device. Once the error is resolved the color of the light will correspond the state of the device.
Voter Requested Help	<ul style="list-style-type: none"> • NO_INDICATION • SOLID_GREEN • FLASHING_GREEN • SOLID_YELLOW • FLASHING_YELLOW • SOLID_RED (default) • FLASHING_RED 	This action signalizes the Poll Worker that the voter has encountered an issue during their voting process and that they require assistance. The Poll Worker can approach the voter and check if they need assistance in processing their votes. The light is deactivated once the voter leaves the Help Menu at which time the light reverts to the 'Device in Use' state.
Sound when error occurred	<ul style="list-style-type: none"> • True • False (default) 	Plays sound notifications when an error occurs during the voting session.

Table 2-24: Voting status (Continued)

2.3.1 LED Indicator Light Configurable options

There are three color options available that can be further configured the following way:

- Specific LED light color per specific state
- Specific type of Light signal - Flashing or Solid.

NOTE: NO_INDICATION option: Meaning that the LED lamp will be disabled for that particular state.

The three available colors can be seen in the below images. images.

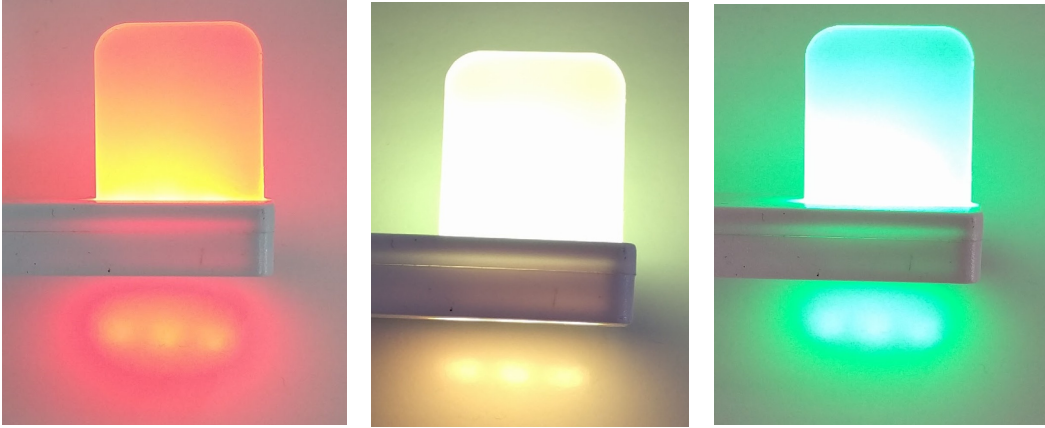


Figure 2-1: Color options

2.4 MCF Version

Version of the Machine Configuration File.

Option Name	Drop-down List Options / Values	Option / Value Description
Version (Read only)	Number	Number that represents version of the Machine Configuration File. Every time when the file is changed the version is changed as well.

Table 2-25: MCF Version

REVISION HISTORY

Rev.	Date	Author	Summary
3	04-25-2019	sava.antonijevic	Resolved various discrepancies.
2	04-01-2019	sava.antonijevic	Updated section “AVS - Accessible Voting Session” and “Voter fled options ” with new options.
1	03-06-2019	sava.antonijevic	Branched for 5.11.

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