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NSW iVote Review Testing Timeline and Control Objectives

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Section I: Background and Timing

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Overview

The iVote system is a remote electronic voting system, enabled by NSW State legislation to provide technology-assisted voting to eligible electors.

The iVote voting channel is offered alongside postal and early voting channels to provide a means of voting for electors who do not have the ability to vote independently or have difficulty voting in person at a voting centre on election day. Electors can vote using iVote if they:

- are blind or have low vision
- are unable to vote without assistance or have difficulty voting at a polling place because you have a disability or have difficulties reading
- are a silent elector
- applied for a postal vote but did not receive your postal ballot papers before 5pm on 26 November 2021
- live more than 20 kilometres from a polling place, or
- will not be within the council area during election day.

Eligibility criteria to use iVote are defined in the Electoral Act 2017 under Section 152, and are defined in the Local Government (General) Amendment Regulation 2021, under section 333C, for NSW Local Government elections.

As at July 2021, the iVote system has been previously used as a remote electronic voting system for the following elections:

- 2011 NSW State General Election;
- 2015 NSW State General Election;
- 2019 NSW State General Election; and,
- 11 NSW State by-elections from November 2011 to May 2021.

Scope

Independent auditing of technology assisted voting is required by Section 156 of the NSW Electoral Act 2017 and by Section 333G of the Local Government (General) Amendment Regulation 2021. The NSW Electoral Commissioner has engaged Deloitte as an independent auditor to assist in independently validating the iVote control environment prior to and during the NSW Local Government Elections in December 2021.

The NSW Electoral Commission have developed an iVote control framework. This framework draws on the guidance from industry practices, as listed in Section II of this document, as well as the Electoral Council of Australia and New Zealand (ECANZ). Testing against this control framework will provide the basis of Deloitte's opinion on the design and operating effectiveness of controls in accordance with the defined test procedures. Refer to Section II for further information.

Please refer to the below plan for indicative timings of the independent validation of the iVote control environment for the 2021 Local Government Elections and Appendix A for an accessible version of this timeline.

Deloitte Managed

NSWEC Managed 💍 Deloitte Shutdown

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Post-election report

Requires input from NSWEC 💋 Extension

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January 2022

	Exported /	Expected /		June Loca				July	JUIY 2021								0000001 2021										ecennoer 2021	
Activity (week commencing)	Completed Date	31 May	7 June	14 June	21 June	28 June	5 Jul	12 Jul	19 Jul 26	Jul 2	2 Aug	9 Aug	16 Aug	23 Aug	30 Aug	4 Oct	11 Oct	18 Oct	25 Oct	1 Nov	8 Nov	15 Nov	22 Nov	29 Nov	6 Dec	13 Dec	20 Dec	
Stream 1: Audit Planning																												
Kick off meeting	31/05/2021																											
Review and provide feedback	02/06/2021																											
Update test procedures in	09/06/2021																										-	
Issue initial audit evidence	11/06/2021																										Ì	
Organise walkthrough	16/06/2021																											
Issue draft audit plan	/ /			_					_																			
(including updated control framework)	27/07/2021																											
Provide feedback on draft audit plan	16/08/2021																											
Publish audit plan, control framework and test	22/00/2024																											
procedures on the NSWEC website	23/08/2021																										ł	
Stream 2: Control Testing																												
Perform walkthroughs	30/06/2021																		Pre	e-election	control tes	ting					(
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Perform design and	24/10/2021											und	aaad	undi			maa								election		, i i i i i i i i i i i i i i i i i i i	
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Stream 3: Control Testing																											,	
(Observation)																				_								
Perform walkthroughs	04/11/2021																											
Lockdown	08/11/2021																											
Logic & Accuracy testing	18/11/2021																											
Close of election	05/12/2021																											
Post-election procedures	12/12/2021																											
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Stream 4: Reporting & Deliverables	13/12/2021																			Weekly	y status up	dates						
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— Controls testing during September due Election Extension iVote system goes live on 22/11/2021

Section II: NSWEC's iVote Control Objectives

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Overview

NSWEC have developed and continually improved their iVote control framework after each Election, most recently after the 2021 Upper Hunter By-election. This framework draws on the guidance from industry practices, listed below, as well as the Electoral Council of Australia and New Zealand (ECANZ). Industry practices include:

- Voluntary Voting Systems Guidelines (VVSG) published by National Institute of Standards and Technology (NIST), USA;
- ISO27001:2013 Information Security Appendix A Clauses; and,
- Council of Europe recommendations on standards for e-voting.

For further information, please refer to the detailed Control Assessment Framework published on the NSWEC Website (the 'Framework').

The below control objectives will be assessed in relation to the 2021 NSW Local Government Election as part of Deloitte's Independent Audit.

CONTROL OBJECTIVE 1–

Control Objective: A set of policies for information security are defined, reviewed on a periodic basis, published, and communicated to all relevant stakeholders operating and managing technology assisted voting.

Control Reference	Control Activity
1.01	NSWEC have a defined, documented, periodically reviewed and approved information security policy for managing security. The policy is communicated to all relevant stakeholders including key suppliers.
1.02	Appropriate standards, guidelines, and procedures are in place to manage information security in accordance with the information security policy.
1.03	A risk register is maintained and regularly reviewed which captures identified risks to technology assisted voting.
1.04	A risk mitigation program is established to identify and mitigate the risks identified in the risk register.

CONTROL OBJECTIVE 2–

Control Objective: Controls have been implemented to enable voters to effectively and accurately use technology assisted voting.

Control Reference	Control Activity
2.01	The voter is informed about how to accurately use technology assisted voting.
2.02	Technology assisted voting provides feedback on the confirmation of valid/invalid options and on successful completion of voting procedure.
2.03	Voters are able to test/perform a demonstration to familiarise themselves with the system.

CONTROL OBJECTIVE 3–

Control Objective: All official voting information is presented in an equivalent way, across various voting channels to ensure that voter's intentions are not affected.

Control Reference	Control Activity
3.01	The candidate information on technology assisted voting is equivalent to the physical ballot.
3.02	No influential language is used which may influence voters towards/against a particular candidate.
3.03	The technology assisted voting platform is designed to prevent influencing voters into making a specific choice when casting a vote.
3.04	Technology assisted voting allows users to cast their vote without providing a preference.

CONTROL OBJECTIVE 4–

Control Objective: Technology assisted voting will ensure that only the appropriate number of votes per voter is cast, stored in the electronic ballot box and included in the election result.

Control Reference	Control Activity
4.01	Identity of the voter must be authenticated during the registration process.
4.02	Technology assisted voting allows only voters who have successfully completed the registration process for voting to log in and cast a vote.
4.03	Voters who have changed their vote/re-voted have their previous vote discarded.
4.04	Prior to the final result, the voting system identifies votes which are invalid, duplicated or generated due to an error.
4.05	Prior to the final results, the number of votes from the voting system and the assurance system are compared and validated. The final result of technology assisted voting must be clearly established.

CONTROL OBJECTIVE 5– Control Objective: The voter interface of technology assisted voting is easy to understand and use.

Control Reference	Control Activity
5.01	Technology assisted voting will enable all voters including persons with disabilities to vote.
5.02	Technology assisted voting is designed to be used on various device types (mobile, laptop, tablets etc.) and maintains the uniformity of the information.
5.03	A mechanism is established for voters to speak to person(s) about using technology assisted voting and ask their queries.

CONTROL OBJECTIVE 6–

Control Objective: Technology assisted voting will only grant a user access after authenticating her/him as a person with the right to vote. The voting system will protect authentication data of the voters, to prevent its misuse, interception, or modification by an unauthorised or malicious user.

Control Reference	Control Activity
6.01	Each registered voter is provided with unique credentials to access all components of technology assisted voting and voters are allowed to setup their own PIN/Passwords to access the voting system after successful registration
6.02	In order to reset the PIN/Password and generate new credentials users must re-verify their identity.
6.03	The authentication data is securely erased from technology assisted voting when it is no longer required.

CONTROL OBJECTIVE 7–

Control Objective: Procedures on encryption are developed and implemented for the use of cryptography to protect votes and voter data during election.

Control Reference	Control Activity
7.01	An encryption policy is formally documented with approved encryption standards to be used.
7.02	Cryptographic key management life cycle is documented and includes: - Key generation - Storage, distribution and installation - Key usage and rotation - Backup and recovery - Key revocation and suspension
7.03	- Secure destruction. A quorum of electoral officers is required for the decryption of votes prior to the end of the election.
7.04	A private key is shared between members to prevent a single electoral officer from decrypting the votes. Mechanisms are implemented to ensure integrity of the votes captured from the voter.
7.05	Scrutineers are invited to the decryption process after the end of the elections and votes are only decrypted after the close of voting.
7.06	iVote numbers and passwords are not stored in the voting or assurance system.
7.07	End-to-end encryption is implemented to ensure the integrity of the voting process from the system where the vote is cast through to the voting database where the vote is stored.
7.08	Backups are protected using encryption and are stored in an offsite location.
7.09	Encryption mechanism are implemented for the verification system to ensure that voter can decrypt and read only their vote.

CONTROL OBJECTIVE 8-

Control Objective: A voter is able to verify that their intention is accurately represented in the vote.

Control Reference	Control Activity
8.01	A voter is able to verify that their vote has been accurately entered into electronic ballot box without any alteration.
8.02	A voter is able to verify that their vote has been taken into account for the purpose of deriving results of the election.

CONTROL OBJECTIVE 9–

Control Objective: The voting system ensures votes remain anonymous.

Control Reference	Control Activity
9.01	Voter's personal identifiable information (PII) is kept separate from the vote.
9.02	Procedures are defined to prevent the link between the voter and the voter's preference to be established.
9.03	A procedure is defined and executed for a technically competent and independent individual to check proofs of the integrity of the mixing and shuffling of votes and decryption of the votes after the election.

CONTROL OBJECTIVE 10-

Control Objective: Personally identifiable information (PII) and privacy of data collected by technology assisted voting is protected.

Control Reference	Control Activity
10.01	A Privacy Impact Assessment (PIA) is conducted, capturing a data inventory of all PI data elements (in any form, whether electronic or paper) and their locations across applications, systems, processes, media and data repositories. The PIA also captures the purpose of the data collected and retention period.
10.02	The voter must be made aware of the information collected from them during all phases of election (registration to results).
10.03	Technology assisted voting captures only the information described in the Privacy Impact Assessment.
10.04	After the completion of elections, voter identifiable information or voter metadata that is related to elections is securely deleted from the systems, storage systems as well as the backup systems.
10.05	Limit the usage of voter identifiable information data collected by technology assisted voting during and after elections to only information required to conduct the election.
10.06	Access to voter's data is restricted to authorised individuals at NSWEC only. Furthermore, no component of technology assisted voting is deployed on offshore locations (outside Australia)

CONTROL OBJECTIVE 11-

Control Objective: Open standards are used to enable various technical components or services to inter-operate.

Control Reference	Control Activity
11.01	Standard data exchange and data formats are used in the voting and assurance system and avoid the use of proprietary frameworks.
11.02	Standard publicly available encryption algorithms are used and use of proprietary algorithms is avoided.

CONTROL OBJECTIVE 12-

Control Objective: Procedures are implemented for the management and handling of removable media during the election process.

Control Reference	Control Activity
12.01	The usage of removable media for elections during the lockdown is documented and restricted.

CONTROL OBJECTIVE 13–

Control Objective: Controls are implemented to ensure that only validated personnel are given access to technology assisted voting.

Control Reference	Control Activity
13.01	NSWEC perform the relevant background verification checks for employees and contractors of NSWEC who handle technology assisted voting design, architecture, code and access the production environment. As part of their contractual obligation, employees and contractors of NSWEC agree and sign the terms and conditions of their employment contract, which state their and the organisation's responsibilities for information security.
13.02	Requirements for background verification and contractual obligation are communicated to all third parties who have access to the production environments of technology assisted voting for implementation.
13.03	All employees of the organisation and, where relevant, external party users shall receive security awareness programme, education and training and regular updates in organisational policies and procedures, as relevant for their job function.
13.04	Roles and responsibilities are documented and communicated to members of the election and admin boards.
13.05	NSWEC has formal agreements with all third parties including statements of responsibilities such as; - compliance to all applicable regulatory requirements; - adherence to NSWEC's policies and procedures, including the protection of voter's information.

CONTROL OBJECTIVE 14–

Control Objective: Before an election, the electoral management body will satisfy itself that technology assisted voting operates correctly.

Control Reference	Control Activity
14.01	Detailed testing including user acceptance testing (UAT) and Production Readiness Testing (PRT) is performed before deployment of technology assisted voting platforms in production.
14.02	Logic & Accuracy (L&A) testing is conducted to confirm the iVote system functions in line with requirements.

CONTROL OBJECTIVE 15–

Control Objective: Access control is managed and monitored appropriately based on the principle of need to know and need to use.

Control Reference	Control Activity
15.01	An access control policy based on the principle of need to know and need to use is documented.
15.02	A password policy aligned to the criticality of technology assisted voting is defined and implemented.
15.03	During lockdown, a list of approved users to be enabled is documented, to ensure that only approved system accounts remain enabled.
15.04	Principle of least privilege is adopted and access permissions/privileges are granted based on the need-to-know principle and after receiving proper approval at NSWEC.
15.05	Users that no longer require physical and/or logical access are removed from systems in a timely manner.
15.06	User access is reviewed on a periodic basis to determine whether access is still required and commensurate with the job responsibilities for each user. All identified access changes are corrected as a final step in the review process.

CONTROL OBJECTIVE 16–

Control Objective: Development, implementation, and changes to new & existing systems, applications and software are documented, authorised, tested and approved.

Control Reference	Control Activity
16.01	Change control procedures are followed for all changes to the production environment.
16.02	Ensure that a formal process to conduct emergency changes in production is implemented and approved.
16.03	Development, testing and production environment are logically separated.
16.04	Formal software development life cycle management includes maintenance of source code repositories per production environment.

CONTROL OBJECTIVE 17–

Control Objective: Secure development practices, testing, and operating environments are used to ensure the integrity of iVote System.

Control Reference	Control Activity
17.01	Developers are trained on secure development practices.
17.02	Security testing and mitigation is performed for all components of technology assisted voting in production environments prior to go-live.
17.03	Security testing and mitigation is performed for all infrastructure components of the technology assisted voting platform prior to go-live.
17.04	The build/deploy of the system in production is validated.
17.05	NSWEC provide mechanisms for review and evaluation of the source code for sensitive parts of the technology assisted voting system.
17.06	Scrutineers are invited to review and observe select iVote processes in accordance to Section 158 of the Electoral Act 2017.

CONTROL OBJECTIVE 18-

Control Objective: A mechanism to protect against malware is implemented and operating.

Control Reference	Control Activity
18.01	Antivirus/anti-malware scanning agents are installed on all components of technology assisted voting platforms (both servers and workstations). The signatures are updated on a regular basis and anti-malware is configured to perform regular scans and quarantine upon detection.

CONTROL OBJECTIVE 19–

Control Objective: Detection and monitoring capabilities have been implemented to detect unauthorised activities.

Control Reference	Control Activity
19.01	A log management system (LMS) is implemented for logging of security events.
19.02	Log files are immutable for vote casting and cannot be overwritten.
19.03	Security incident and event management (SIEM) is implemented for real time monitoring of events and management of security incidents.
19.04	Security events logged into log management and security incident management system must capture the key events and detailed description in the logs.
19.05	Sensitive information related to voter and votes is not captured in the logs.
19.06	All technology assisted voting components is synced with a network time protocol to ensure integrity of logs.

CONTROL OBJECTIVE 20-

Control Objective: A procedure is established to identify vulnerabilities and regularly install updated versions and corrections of all relevant software.

Control Reference	Control Activity
20.01	All the assets utilised in the voting system are identified and an inventory is maintained with relevant details, and is reviewed on a regular basis.
20.02	Vulnerability security assessments are performed to identify vulnerabilities in software and hardware.
20.03	The patch management policy is implemented to ensure that all known vulnerabilities are patched.
20.04	A mechanism is implemented to ensure only required software is installed on technology assisted voting components.
20.05	All updates and patches are reviewed and tested in non-production environments before deployment into the production.
20.06	A mechanism is in place to securely deploy updates/patches/config changes during a locked down state.
20.07	Patch update/config correction mechanisms are disabled where required during lockdown of the system.
20.08	A mechanism is implemented to ensure that latest mobile app/application is used by the voters.

CONTROL OBJECTIVE 21–

Control Objective: Technology assisted voting systems' networks are managed, controlled and segmented to protect information in systems and applications.

Control Reference	Control Activity
21.01	Network security policy and procedures are developed and documented to define the controls required for the protection of the voting systems and the voter's information.
21.02	The network hosting technology assisted voting is segregated based on the defined security model to achieve defence in depth.
21.03	Perimeter security controls are defined and implemented to protect technology assisted voting.
21.04	Network based Intrusion detection or prevention system are implemented for technology assisted voting.
21.05	Network security controls are tested through a combination of system reviews and red team exercises.
21.06	All network security applications and tools (Firewalls/WAF/Load Balancer/Application Servers/Web Servers etc.) have management (administrator) console restricted only to the management network zone for the respective application and have 2FA enabled.
21.07	Procedures must define the required network controls and configuration changes for system lockdown.
21.08	All voting systems are protected during the lockdown using host security system.
21.09	Procedures and controls are implemented to ensure network performance and availability.
21.10	The network components and traffic of the technology assisted voting systems are segregated.

CONTROL OBJECTIVE 22– Control Objective: Physical protection and guidelines for secure areas and equipment are designed and applied.

Control Reference	Control Activity
22.01	Management has developed a process to define, monitor, and evaluate third-party physical production environment protection requirements across all third party providers.
22.02	Access to facilities is aligned with Protective Security Policy Framework (PSPF) zones requirements and restricted to approved NSWEC staff.
22.03	Environmental controls are implemented at data centre and office location for protection of technology assisted voting assets.

CONTROL OBJECTIVE 23–

Control Objective: Procedures and capabilities related to business continuity and resilience are established to operate effectively during a time of an incident.

Control Reference	Control Activity
23.01	A business impact analysis is performed to identify critical processes, technology components and key people. Additionally, RTO & RPO of the critical systems is identified.
23.02	Business continuity procedures and recovery plans are documented, approved and tested.
23.03	Single points of failure of all components of technology assisted voting have been identified and disaster recovery capabilities established.
23.04	Backup of data and systems is performed during system lockdown in accordance with a formalised backup schedule aligned with defined RPO.
23.05	Disaster Recovery for technology assisted voting is setup and implemented in a separate geo-redundant data centre.
23.06	DR testing and backup recovery is performed prior to go-live to ensure that controls implemented are operating effectively.

CONTROL OBJECTIVE 24–

Control Objective: IT and information security incidents are responded to and reported in accordance with documented procedures.

Control Reference	Control Activity		
24.01	A documented incident management procedure or plan is maintained to identify and manage the following incidents during the election process:		
	1. Security Incidents.		
	2. 11 Incidents.		
24.02	Daily Incident records are prepared and reviewed based on the activity monitoring during the system lockdown period.		
24.03	Simulations and training are conducted prior to the elections to ensure that all involved stakeholders/parties understand their roles and responsibilities.		
24.04	Post incident analysis for a security or IT incident are conducted and learnings identified and addressed.		
24.05	Procedures and controls are implemented to ensure application and system performance and availability.		

Appendix A: Accessible Timeline

Appendix A: Accessible Timeline

Timeline in Text

Stage	Stream	Activity	Expected Date
1	Audit Planning	Kick off meeting	31/05/2021
		Review and provide feedback on test procedures	02/06/2021
		Update test procedures in control framework	09/06/2021
		Issue initial audit evidence request list (DRL)	11/06/2021
		Organise walkthrough meetings	16/06/2021
		Issue draft audit plan (including updated control framework)	27/07/2021
		Provide feedback on draft audit plan	16/08/2021
		Publish audit plan, control framework and test procedures on the NSWEC website	23/08/2021
2	Control Testing (Desktop)	Perform walkthroughs	30/06/2021
		Providing available audit evidence	18/10/2021
		Perform design and implementation assessment	24/10/2021
		Perform operating effectiveness assessment	10/12/2021
		Agree control deficiencies	10/12/2021
3	Control Testing (Observation)	Perform walkthroughs	04/11/2021
		Lockdown	08/11/2021
		Logic & Accuracy testing	18/11/2021
		Close of election	05/12/2021
		Post-election procedures	13/12/2021
		Agree control deficiencies	13/12/2021
4	Reporting and Deliverables	Issue draft vote journey map	22/10/2021
		Provide feedback on the vote journey map	29/10/2021
		Finalise pre-election control deficiencies	29/10/2021
		Issue draft report	9/11/2021
		Provide feedback on the draft report	12/11/2021
		Finalise & publish pre-election report on NSWEC website	19/11/2021
		Finalise post-election control deficiencies	15/12/2021
		Issue draft ASAE3150 report	12/01/2022
		Provide feedback on draft ASAE3150 report	14/01/2022
		Finalise & publish ASAE3150 report on the NSWEC website	21/01/2022