Elections ACT

Upgrade of eVACS® for the 2020 ACT Legislative Assembly Election

Interface Specification – Telephone Voting

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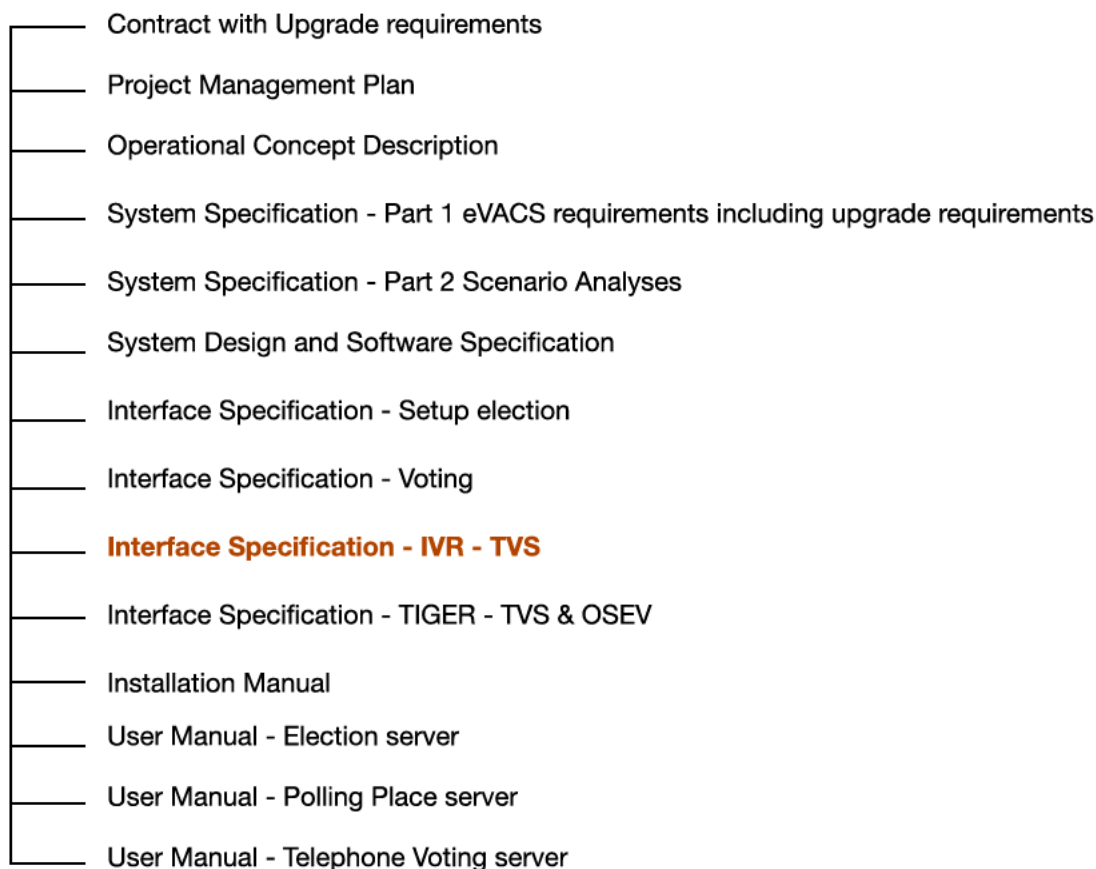**December 2020**

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In compiling this Interface Specification, Software Improvements has relied upon the accuracy and completeness of information provided by Elections ACT.

eVACS®

eVACS® is a registered Trade Mark of Software Improvements Pty Ltd.
Where used in this Interface Specification, eVACS has the same meaning as eVACS®.

eVACS® Upgraded documentation Tree

- Contract with Upgrade requirements
- Project Management Plan
- Operational Concept Description
- System Specification - Part 1 eVACS requirements including upgrade requirements
- System Specification - Part 2 Scenario Analyses
- System Design and Software Specification
- Interface Specification - Setup election
- Interface Specification - Voting
- **Interface Specification - IVR - TVS**
- Interface Specification - TIGER - TVS & OSEV
- Installation Manual
- User Manual - Election server
- User Manual - Polling Place server
- User Manual - Telephone Voting server

Document Control Information

The controlled version of this document is in electronic form.
All hardcopy versions are uncontrolled.

Modifications

Date of this Revision	Version	Comment	Author	Reviewer	Release
2019-11-24	0.1	Initial Draft	CJB	AS	
2020-02-10	0.2	Incorporation of comments from AS	CJB	AS	
2020-03-04	0.3	Additional comments incorporated	CJB	AS	
2020-06-20	0.4	Inclusion of cross referenced requirements	CJB	AS	
2020-06-26	1.0	Minor edits	CJB		2020-06-30
2020-08-24	1.1	Updated documentation tree	CJB		
2020-12-30	1.2	Removal of Data Entry details from documentation tree	CJB		2021-02-15

Distribution

Name and Appointment	Document Name	Date of Issue	Version
Jiv Sekhon, eVACS Project Manager, EACT	IS Telephone Voting	2021-02-15	1.2

Contents

1. Introduction

1.1   Document Purpose

This 'Interface Specification – Telephone Voting' specifies the requirements to achieve the interface between the IVR server and the Telephone Voting Server components of eVACS®. The Interface Specification supplements the System Specification, and the System Design and Software Specification documents.

The intended audience of the Documentation Guide is Elections ACT and the eVACS® Upgraded Project Team.

1.2   Referenced documents

In the remainder of the document, a citation of the form [i] is a reference to document i listed in this section.

1. Department of Defence, United State of America, Software Development and Documentation, MIL-STD-498, 1994
2. Software Improvements Pty Ltd, eVACS® Systems Specification Parts 1 and 2, 2019
3. Software Improvements Pty Ltd, eVACS® System Design and Software Specification, 2019
4. Software Improvements Pty Ltd, eVACS® Interface specification – Voting, 2020

1.3   Acronyms

AS	Alex Smyth
CJB	Carol Boughton
DTMF	Dual-Tone Multi-Frequency
eVACS/ eVACS®	electronic Voting and Counting System
I	Interface or Inspection if a QM
IRS	Interface Requirements Specification
IVRS	Interactive Voice Response Server
QM	Qualification Method (s)
SDSS	System Design and Software Specification
SSS	System Specification
TVS	Telephone Voting Server
VS	Voting Server

1.4   Definitions

Schedule 2.2(a)(xi)

2. Requirements

2.1 Interface identification and diagram

The IVR Server – Telephone Voting Server interface (I-IVRS-TVS) (Figure 1) supports the Event-Action lists in Part 2 [2], for telephone voting via telephone keypad DTMF signals.
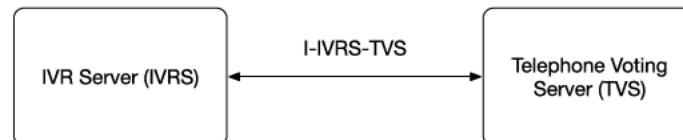

Figure 1 – IVR Server to Telephone Voting Server interface

2.2 I-IVRS-TVS

Schedule 2.2(a)(xi)

Table 1 – Interface requirements and qualification method (QM) for telephony voting[2]

Label	Message Type	Data to TVS	Data to IVRS	QM[1]
IRS-TV-R-2.2.1	Schedule 2.2(a)(xi)			
IRS-TV-R-2.2.2				
IRS-TV-R-2.2.3				
IRS-TV-R-2.2.4				
IRS-TV-R-2.2.5				
IRS-TV-R-2.2.6				

Label	Message Type	Data to TVS	Data to IVRS	QM[1]
	Schedule 2.2(a)(xi)			
IRS-TV-R-2.2.7				
IRS-TV-R-2.2.8				
IRS-TV-R-2.2.9				

Label	Message Type	Data to TVS	Data to IVRS	QM[1]
	Schedule 2.2(a)(xi)			
IRS-TV-R-2.2.10				
IRS-TV-R-2.2.11				
IRS-TV-R-2.2.12				
IRS-TV-R-2.2.13				

1. For definition see sections 1.3 and 3

Table 2 – Interface requirements cross referenced to SSS requirements

IRS Label	SSS Requirements
IRS-TV-R-2.2.1	SSS-R-A.2-52
IRS-TV-R-2.2.2	SSS-R-A.2-53
IRS-TV-R-2.2.3	SSS-R-A.2-55
IRS-TV-R-2.2.4	SSS-R-A.2-58
IRS-TV-R-2.2.5	SSS-R-A.2-57
IRS-TV-R-2.2.6	SSS-R-A.2-59
IRS-TV-R-2.2.7	SSS-R-A.2-63, SSS-R-A.2-64
IRS-TV-R-2.2.8	SSS-R-A.2-60, SSS-R-A.2-61, SSS-R-A.2-62
IRS-TV-R-2.2.9	SSS-R-A.2-65, SSS-R-A.2-66
IRS-TV-R-2.2.10	SSS-R-A.2-66, SSS-R-A.2-67
IRS-TV-R-2.2.11	SSS-R-A.2-67
IRS-TV-R-2.2.12	SSS-R-A.2-68

2.3 Precedence and criticality of requirements

All requirements have equal weight.

3. Qualification provisions

The QM column in Table 1 assigns the qualification methods to each requirement to be used to ensure that the requirement has been met.

Qualifications methods used are:

- Demonstration (D): The operation of interfacing entities that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- Inspection (I): The visual examination of interfacing entities, documentation, etc.

Appendix 1 – List of interface requirements for telephone voting

See Table (section 2.2) for data associated with each interface requirement

Schedule 2.2(a)(xi)

– E N D   O F   D O C U M E N T –