

## Appendix C: intElect ElectionWare Product Overview

Election Systems & Software introduces ElectionWare – a fully integrated, election management software suite that will allow customers to carry out election management tasks through a single application interface. Building on the strengths of ES&S' current Unity Election

Management System, ElectionWare makes the administration of elections easier – and more efficient – than ever before.



ElectionWare is a single application made up of many modules. Each module that controls the steps in the election process will ultimately have all of the functionality of the Unity application that it replaces. These modules will:

- Define election data.
- Create ballot images and tabulator files.
- Burn media.
- Gather, aggregate and report results.

### OVERVIEW OF ELECTIONWARE

ElectionWare works in combination with Unity Election Data Manager and Election Reporting Manager. Presented in a single user experience, ElectionWare is fully integrated and uses a common database. This means that any change is immediately usable by any of the application processes selectable in ElectionWare.

For each election, the user selects the active election districts and assembly districts to define splits and ballot styles. Once contest and candidate information is in the database, the user can design ballots and program media for all ES&S tabulation and ballot marking products.

In addition, ElectionWare provides a secure software base that incorporates the highest security protocols necessary in the architecture and that is capable of meeting or exceeding new standards.

### BENEFITS OF ELECTIONWARE



#### Ease of use

ElectionWare is an intuitive, easy-to-use election management suite that does just what a customer wants . . . eliminating wasted effort on unnecessary tasks.



#### Single user interface

Most of the multi-function modules are delivered through a single user interface, streamlining access to, and management of, information. Common database and customer-specific settings provide seamless movement between modules, simplifying execution of key tasks.

**Modernized Technology, networked environment**

ElectionWare leverages the power of new technology languages, methods and networked environments that enables a multiple user application.

**Security**

ElectionWare incorporates the very latest in election security, including heightened audit controls and change management processes that are in built in to make sure your election data is safe and secure.

**Compliant with the latest voting systems standards**

ElectionWare meets known requirements of the 2005 and anticipated requirements of the 2007 Voluntary Voting Systems Guidelines.

**CUSTOMER DEFINITION – MANAGE GROUP**

The Manage Group contains the **Set Up** module, which provides customer definition and profile management, as well as user access management. The **Audit Report Function** provides audit data management within ElectionWare.

**DEFINING AN ELECTION – ELECTION DATA MANAGER**

Election Data Manager (EDM) is a single-entry database that stores all of a jurisdiction's Election District, office and candidate information. EDM is used in conjunction with ElectionWare and other Unity software to format and print ballots, program ballot scanning equipment, and produce Election Day reports.



The election definition is set up through EDM. Typically, a master election database created during system implementation contains all of the Election District, Assembly District and relationships required for a jurisdiction. This master file is then used to build each election-specific file to which election-specific contests can be manually added or merged from a previous election file. Next, candidates are manually added to the contests.

Once this process is completed and proofed, ballot styles are automatically created and assigned to the respective Election Districts. The election files are then created and used by the various vote tabulation devices and Unity – the Results Accumulation and Reporting subsystem. Users can print all required reports of Election District, district combinations, contest and ballot style listings, etc from the EDM interface.

EDM module generates ballot codes based on information entered by the user. Ballots are coded with the following information:

- Ballot Style ID.
- Election District Number.
- Split Number.
- Party Number or Ballot Type.

After entering information for an initial election, it can be recalled and edited for all elections that follow.

## REPORTING

Multiple reports are available for proofreading in the Unity Election Data Manager. EDM reports include the Ballot Gallery – a contest-by-contest listing of each ballot type, Ballot Type by Election District, Ballot Type in Ballot Type Order, Election District, district combinations, contest, candidate, and ballot style listing reports – essential for proofing purposes.

## OPERATIONAL ENVIRONMENT SOFTWARE – DESIGN GROUP



**Accessible Ballot module** provides script management and ballot preview features for the AutoMARK Voter Accessible Terminal.



**Element Library module** provides management for screen and audio files, such as party logos and election header graphics.



**Paper Ballot (previously known as Digital Scan Image Manager - DSIM)** manipulates the image of a digital scan ballot populated by information from the EDM database. **Paper Ballot** is accessed from ElectionWare, but it is outside of ElectionWare itself.

**Paper Ballot** is a desktop publishing tool that allows users to design and print ES&S paper ballots for the DS200 ballot scanning system. **Paper Ballot** uses ballot style information created by Unity Election Data Manager to display the WYSIWYG ballots. Users can then apply typographic formatting (font, size, attributes, etc.) to individual components of the ballot. Text and graphic frames can also be added to the ballot.

## OPERATIONAL ENVIRONMENT SOFTWARE – DELIVER GROUP



**Configure module** sets up the parameters of how the election equipment (tabulators and/or ballot marking devices) will work.



**Process module** generates the files and data that need to be placed on the tabulator, or ballot marking device.



**Package module** packages and transfers the election definition to the tabulator and/or ballot marking device media (this is also known as media burning).

## OPERATIONAL ENVIRONMENT SOFTWARE – ELECTION REPORTING MANAGER

**Election Reporting Manager (ERM)** is ES&S's election results reporting program. ERM is used to generate paper and electronic reports for poll workers, candidates and the media.

ERM is designed to display updated election totals on a monitor as ballot data is tabulated. Report editing features enable you to read data from a variety of ballot scanners, customize your report formats, and generate accurate election results.



ERM is designed to support a wide range of ES&S ballot scanning equipment and can produce reports for both central count systems and precinct count systems. ERM also has the ability to output file formats for use in other systems.

## FUTURE ENHANCEMENTS

Future enhancements to ElectionWare are being developed. They include:

- Functional groups and modules rather than new products will be added to ElectionWare as they are defined and prioritized. This will make a highly usable and cohesive user experience.
- ElectionWare will be aware of all steps that have been taken in the workflow, and will be able to prompt the user about what steps must be taken as a consequence of an election definition change, depending on the changed content. This would include the ballots that need to be revised and new artwork created as well as which tabulator media files need to be recreated and media reprogrammed.
- Election Data Manager will be replaced by the **Capture** module within the **Define** group, which will provide data entry or import for jurisdiction and election data, ballot style creation and phonetics entry.
- Election Reporting Manager functions will be replaced by the modules in the **Results** group. The **Collect** module will provide results collection from tabulators. The **Report** module will provide election night results reporting, and the **Publish** module will provide results distribution and public Web results.
- In addition, a new module will be added to the **Results** group. The **Resolve** module will provide ballot exception handling (adjudication) and write-in handling.
- ElectionWare is deployed as a desktop-based product suite. But through the power of the Internet, it will allow collaboration between ES&S and our customers, and between state and local election authorities.