

History of Changes in Win C.A.S.I.E. III

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- Version 0.61 released on June 12, 2008.
 - *Note Taker* Additons/Changes/Bugs
 - * Added the menu item *Clue* which allows the user to add information about any clues that are found.
 - * Added the menu item *IAP* which allows the user to add text versions of the Incident Action Plan ICS forms (202–206).
 - * Moved the *Insert* menu item (and the items below it) from under *Tools* to the main menu.
 - * Made the *Tab* key operate the same way as completing forms, namely, takes you to the end of the following line. The *Esc* key takes you to the end of the previous line (easier to use than *Shift Tab*).
 - * Whenever text is inserted from a menu item at the position of the cursor, the cursor is returned to this initial point. This together with the *Tab* key allows you to rapidly go from one item to the next.
 - * Corrected an occasional problem under *Spell Check*, when the dictionary could not be found.
 - *Access Forms* Additions
 - * Added ICS forms 202–206 in both Word and pdf format.
 - * Added two pdf documents, Clue Log and Clue report, courtesy of the Bay Area Search and Rescue Council (www.basarc.org).
 - Corrections
 - * Corrected various cosmetic problems resulting from introducing the *Military Time* option.
- Version 0.60 released privately on June 6, 2008 for an 8-hour Win C.A.S.I.E. III workshop presented to the National Park Service personnel at Grand Teton NP.
- Version 0.59 released on May 25, 2008.
 - Added automatic check of web to see if an upgrade is available when Win C.A.S.I.E. III loads.

- Added the file *InitialNote.pdf* to the *Access Forms* documents, which shows up under the title “Using The Initial Note”.

The members of the Arizona Pima County Sheriff’s Department Search and Rescue Unit routinely open an Initial Note in Win C.A.S.I.E. III on all lost person cases. After examining these notes, a suggested template for using the Initial Note emerged. *InitialNote.pdf* show this template, and then gives an example of its use.

The following additions to Win C.A.S.I.E. III are a consequence of examining the PCSD SAR Unit’s notes.

- Under *System* added the menu item *Military Time* which toggles the format of the time between a 12-hour and a 24-hour clock.
- Added automatic saving of the status of Auto Save and Military Time.
- *Initial Note/Editor* Additions
 - * Under *Tools* added the menu item *Spell Check*, which checks the spelling in the current document.
 - * Under *Tools, Insert* added the menu item *Initial Note* which puts the words “Initial Note” at the position of the cursor.
 - * Under *Tools, Insert* added the menu item *Dispatch Call/Initial Report* inserts a list of items, such as “Informant”, “Contact Information”, and “Details” at the position of the cursor.
 - * Added various items, such as “Weather Forecast”, “Case #”, “Photo”, to existing inserts.
- Updated the Win C.A.S.I.E. III manual and Help files to reflect all these changes.

- Version 0.58 released on April 29, 2008.

Important: Please do not use *Check For Updates* under the *Help* menu in Win C.A.S.I.E. III to download this version. It will not work because I’ve had to move the location of the file “InstallWC3.zip”. Go to <http://wcasio.com/download.aspx> and download it from there. Once version 0.58 is installed, you can continue to use *Check For Updates*. I am sorry for the inconvenience, but the original location gives various error messages that the URL provider has not been able to resolve.

- *Consensus* Additions/Changes
 - * When starting a new search, an extra consensus option is available in addition to Mattson and O’Connor, namely, a modified Proportional Consensus.
 - * Under *Initial Resources* → *Access Forms* → *Consensus Form*, added the ability to print Mattson, O’Connor, and Proportional forms separately, in addition to the composite form, where all three are printed together.
- *ICS* Additions
 - * In the *Initial Note* and the *Editor*, added the menu item *ICS*. This allows users of the Australian, Canadian, New Zealand, and USA Incident Command Systems (ICS) to add their ICS titles to a note.

- * Under *Initial Resources* added the menu item *Edit ICS Titles File*. This allows the menu items under *ICS* in the *Initial Note* or *Editor*, mentioned in the previous bullet, to be customized for local use.
- *Magnifier* Addition
 - * Under *Help* added the menu item *Magnifier*. Clicking on this item opens a window in which the text under the cursor is magnified. This might be useful when projecting Win C.A.S.I.E. III onto a screen in a large room, where some in the audience have difficulty reading the text directly from Win C.A.S.I.E. III.
- *Initial Note/Editor* Addition
 - * Pressing the key combination “CTRL +” increases the font size in the Initial Note’s/Editor’s text. “CTRL –” decreases the font size, and “CTRL *” returns the font to its default size. This might be useful when projecting Win C.A.S.I.E. III onto a screen in a large room, where some in the audience have difficulty reading the Initial Note’s/Editor’s text directly from Win C.A.S.I.E. III.
- Problems Fixed
 - * Fixed a problem caused by importing forms with filenames less than 7 characters long.
 - * Fixed a problem when using the Cancel key while editing the Resource file.
- Other Changes
 - * Changed all the Help commands so that the Win C.A.S.I.E. III window and the Help window can be open at the same time, allowing a user to switch back and forth between them.
 - * Added another feature. If any of the Audit panels are open on the main-screen, double-clicking on a non-“Saved Note” line displays the line under it in full. As before, double-clicking on a “Saved Note” line opens the associated document in the editor.
 - * Made sure that the *Add Resource* and *ICS* menu items in the *Initial Note* and the *Editor* are updated immediately once the Resource file and ICS files are edited.
 - * When *Adding A Completed Search*, if coverage is used rather than POD, the coverage input is restricted to less than 5, which is a POD of about 99%.
 - * Made sure that certain menu items under *Initial Resources* (namely, *Import External Forms*, *Edit Resource File*, *Edit ICS Titles File*) are unavailable if the application folder cannot be written to.
 - * Under *Help* → *History Of Changes* changed the program so that this file is read locally rather than from the web.
- *Win C.A.S.I.E. III Manual* Additions/Changes
 - * Added an additional chapter (Chapter 4: *The Main Screen*) and associated exercises to the Win C.A.S.I.E. III manual.

- * Added an additional chapter (Chapter 8: *Review Exercises*) to the Win C.A.S.I.E. III manual. It lists a series of exercises taken from the Exercises at the end of previous chapters. These exercises are selected so that users can decide whether they have a good understanding of the mechanics of running Win C.A.S.I.E. III.
 - * Added an additional appendix (Appendix C) to the Win C.A.S.I.E. III manual, which explains the theory behind the Proportional Consensus calculations.
 - * Updated the Win C.A.S.I.E. III manual and Help files to reflect all these changes.
- Version 0.57 released on March 23, 2008. These changes are a result of the suggestions made by the 40 participants attending the Search Management course given at Zion National Park by Ken Phillips (Grand Canyon NP), Bill Vandergraff (Grand Canyon NP), and David Lovelock, and coordinated by Kevin Killian (Zion NP). March 3–7, 2008.
 - Fixed a problem that laptops with very small screensizes experienced when viewing the *Urgency Rating Chart* under the *Initial Resources* menu.
 - Clarified the message shown when attempting to close the Note Taker after changes had been made but not saved.
 - Fixed a bug in the error checking routine of the Mattson Consensus.
 - Fixed typos in *Exercise.pdf*.
 - When the *Update Search* menu item *Remove/Edit Completed Search Assignment* is selected, renamed the button to reflect that editing, as well as removing, is an option.
 - Made various cosmetic changes.
- Version 0.56 released on February 25, 2008.
 - Fixed a bug, introduced in Version 0.55, in the *Save* option under *Resource Allocation Advice*.
- Version 0.55 released on February 14, 2008.
 - Under *File* menu added:
 - * *Export Initial Note*, which allows you to export the Initial Note to a thumb-drive, say.
 - * *Import Initial Note*, which allows you to import an Initial Note from a thumb-drive, say.
 - Under *Update Search* menu added:
 - * *Weather*, which opens a new note and allows you to enter the current weather.
 - In the *Initial Note* and *Note Taker* added the menu item *Weather*, which allows you to enter the current weather.

- In the *Initial Note* and *Note Taker* under the menu item *File* added the menu item *Auto Save*, which gives you the option to automatically save the note every 1, 5, or 10 minutes.
 - In the *Add Completed Search Assignment* added the ability to reuse the input already entered. For example, if a helicopter searches multiple segments in the same operational period with the same POD, then you can reuse the inputs from one segment to the next.
 - If the program finds an Initial Note on the Desktop, you are alerted to this, and various options are suggested. This is useful if a new search is about to begin, but an Initial Note from an old search is still on the Desktop.
 - Corrected a bug if PDF documents were not associated (in Windows) with a PDF reader, such as Adobe Acrobat Reader.
 - Corrected typos and formatting in some LPB files. This showed up when importing these files into a Note.
 - Corrected cosmetic details in the *Add Clue* window.
 - Corrected cosmetic details in the Reports.
 - Updated *Exercise.pdf*.
 - Updated and corrected typos in the Help and the Manual.
- Version 0.54 released on June 28, 2007.
 - Under *File* menu added:
 - * *Export*, which allows you to export the incident to a thumbdrive, say.
 - * *Import*, which allows you to import an incident from a thumbdrive, say.
 - * *Path*, which shows you the path to the current incident. (Useful if you want to backup yourself.)
 - Under *Update Search* menu added:
 - * *Save Bitmap From Clipboard*, which saves a bitmap image already in the clipboard as a bmp file in the current incident folder. A bitmap would typically come from a mapping program, such as *Terrain Navigator Pro*, which can copy the map on the screen to the clipboard, using “Ctrl-C”.
 - Under *Initial Resources* menu added:
 - * *Urgency Rating Chart*, which allows you to complete an Urgency Rating Chart.
 - Under *What If?* menu added:
 - * *Aircraft ESW Tables*, which estimates the effective sweep width for aircraft from the tables published in the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual.
 - * *Change Units*, which allows you to convert between different units in fields such as Area, Length, Temperature, Velocity, etc.
 - * *Latitude and Longitude*, which in turn leads to 4 other menu items:

1. *Convert Coordinate Format*, which allows you to convert latitude and longitude between three formats: degrees; degrees and minutes; and degrees, minutes, and seconds.
 2. *Distance From Degrees*, which allows you to estimate the distance between two locations where the latitude and longitude are given in degrees.
 3. *Distance From Degrees Minutes*, which allows you to estimate the distance between two locations where the latitude and longitude are given in degrees and minutes.
 4. *Distance From Degrees Minutes Seconds*, allows you to estimate the distance between two locations where the latitude and longitude are given in degrees, minutes, and seconds.
- Under *Help* menu added:
 - * *Initial Search Checklist*, which contains a sub menu giving direct links to the sorts of items you typically do at the beginning of a search.
 - * *Ongoing Search Checklist*, which contains a sub menu giving direct links to the sorts of items you typically do during a search.
 - Corrected a bug if no printers are present. Corrected a bug if the root of C cannot be written to.
- Version 0.53 released privately on June 13, 2007 for an 8-hour workshop presented to the Pima County Sheriff’s Department SAR unit.
 - Version 0.52 released on May 11, 2007.
 - Added the hotkey “Ctrl-A”, which immediately opens the menu item *Add Comment To Audit Trail*.
 - If a new note is created, the user is now asked whether to add an incident comment to the Audit Trail. This comment is constructed from the first 50 characters of the note, where carriage returns are replaced with spaces. The comment is placed immediately before the “Saved Note” entry in the Audit Trail.
 - For display purposes only, the POA and CPOD numbers in the Incident Status panel are rounded to two decimal places. By double-clicking on any row, the actual numbers (to 15 decimal places) corresponding to that segment can now be seen.
 - Version 0.51 released on April 23,2007.
 - Updated the Lost Person Behavior files to agree with “Managing the Lost Person Incident”, 2nd Edition.
 - Corrected a bug in *See Initial POAs* caused by introducing the note taking ability in version 0.50.
 - Corrected a bug in *Import External Form*.
 - Corrected a problem caused by round-off error.

- If a search is not in progress, added the ability to paste the results of various calculations under *What If?* into the Initial Note.
- Version 0.50 released on January 26, 2007. This version is a major update and includes a 100-page manual and a separate video tutorial.¹ This version incorporates a large number of additional features most of which were introduced as the result of two different events.
 1. A very successful multi-day workshop was given in which the instructor integrated both Win C.A.S.I.E. III and a draft of “Managing The Lost Person Incident”, 2nd Edition. This led to suggestions that additional items be included in Win C.A.S.I.E. III to assist in the future teaching of such workshops.
 2. Shortly after attending a workshop on Win C.A.S.I.E. III, a bright-eyed and bushy-tailed person arrived at the start of a search. He immediately fired up Win C.A.S.I.E. III, and when the subject was found after a few hours during the initial stages of the search, he had not used Win C.A.S.I.E. III, and had no record of the search activities. This is because Win C.A.S.I.E. III was designed for full-scale searches, which start with taking a consensus, whereas well over 90% of searches end during the initial stages and before a consensus is taken. This led to the suggestion that Win C.A.S.I.E. III be expanded to be useful in every search, not just full-scale searches.

We have incorporated these suggestions, and more, into this version of Win C.A.S.I.E. III. As a result, the following **new menu items are available**.

- Under *Initial Resources*
 - * *Circular Search Areas* calculates the area between two concentric circles.
 - * *Edit Resource File* allows you to edit the resource file, Resource.txt.
 - * *Initial Note* allows you to create a text file, using a simple built-in text Editor, which contains information about the initial search.
- Under *Update Search*
 - * *Create Note* allows you to create a Note using the simple built-in text Editor.
 - * *Edit Note* allows you to edit a previously created Note.
 - * *Report* generates a report, automatically incorporating all the Notes.
 - * *Transfer Incident Status To Audit Trail* allows you to copy the current POAs and CPODs from the Incident Status panel to a file to be included in the Report.
- Under *What If?*
 - * *ESW From CS Or AMDR* estimates Effective Sweep Width from Critical Separation or Average Maximum Detection Range.
 - * *Coverage And Spacing From ESW* calculates either the Coverage or the Spacing (how far apart the members of a grid-search team should be) from the remaining one and the Effective Sweep Width.

¹Because of the number of changes between this version and the previous one (0.45), we have changed the version numbers from 0.4x to 0.5x.

- * *Spacing From Coverage/POD* allows you to convert from Coverage or POD to Spacing for a given Effective Sweep Width.
- * *Coverage/POD From Spacing* allows you to convert from Spacing to Coverage or POD for a given Effective Sweep Width.
- Under *Help*, the menu item *History Of Changes* goes to the Win C.A.S.I.E. III website and displays the History webpage.

To account for these changes the document, Exercise.pdf, was rewritten and the Help file was updated.

After these new menu items were incorporated, Win C.A.S.I.E. III developed a life of its own, and it has become sufficiently complicated that we thought that a **manual** and an independent **video tutorial** might be helpful. So we created these items also.

The Manual

The manual, *WC3Manual.pdf*, can be read from within Win C.A.S.I.E. III under *Access Forms*, or independently. Being a pdf document, it requires the Adobe Acrobat Reader. The manual assumes that the reader is familiar with common Search and Rescue terms, such as POA, R.O.W., POD, CPOD, and ICS. It is over 100 pages long, with a Table of Contents and a full Index.

This manual is divided into four parts:

- Part I, *Understanding Win C.A.S.I.E. III*, explains every menu item in Win C.A.S.I.E. III. Most chapters in Part I have exercises devoted to the basic usage of Win C.A.S.I.E. III with answers at the back of the manual.
- Part II, *Using Win C.A.S.I.E. III*, explains how to use Win C.A.S.I.E. III at the beginning of a search and then during a full-scale search. It also gives suggestions on how to incorporate Win C.A.S.I.E. III into a course based on “Managing The Lost Person Incident”, 2nd Edition. Table-top Exercises, designed to acquaint the user with Win C.A.S.I.E. III as used in the field, are also included in Part II, although answers are not supplied.
- Part III, *Appendices*, covers various topics, usually of a mathematical nature.
 - * Appendix A gives a one page summary of all the main menu items in Win C.A.S.I.E. III.
 - * Appendix B, describes the theory behind O’Connor’s Consensus method.
 - * Appendix C explains the mathematical relationship between POD, Coverage, and Effective Sweep Width.
 - * Appendix D is concerned with Win C.A.S.I.E. III, Bayes’ Theorem, and Search and Rescue. It discusses the mathematical model used by Win C.A.S.I.E. III, and shows how the standard formulas used in SAR to update POAs are a consequence of Bayes’ Theorem.
 - * Appendix E summarizes some useful formulas used in SAR.
- Part IV, *Answers, References, and Index*, contains

- * Short answers to the exercises in Part I.
- * The references cited in Parts I–III.
- * A full index.

Video Tutorial

The video tutorial can be downloaded from www.wcasie.com. It requires a Shockwave player. It is widely believed that over 97% of computers already have a Shockwave player installed.

The Win C.A.S.I.E. III tutorial consists of eight videos (with no audio), which should be viewed in order.

1. Installing Win C.A.S.I.E. III.
2. The *Initial Resources* menu.
3. The *File* menu.
4. The *Update Search* menu.
5. The *What If?* menu.
6. The *System* and *Help* menus.
7. The *Note Taker*.
8. A Very Simple Search.

After you have seen the movie, you should read the book!

- Version 0.45 released on November 16, 2006. The major change is, under *What If?*, *Resource Allocation Advice*, the inclusion of the Washburn Algorithm (generously provided by Alan Washburn) as an option in addition to the Brute Force method. This algorithm avoids many of the limitations of the brute force method, and is a major improvement over the current method.
- Version 0.44 released on November 3, 2006. Fixed a problem using *Access Forms* if MS Word was not installed. Added ICS204B form as a PDF document.
- Version 0.43 released on October 18, 2006. There are two new menu items:
 - Under *Initial Resources*, the new menu item *Import External Files* allows you to import TXT, DOC, and PDF documents that are then available under *Access Forms*.
 - Under *Help*, the new menu item *Check For Updates* checks this website to see whether you are running the latest version. If not, it offers to download it. You must close the current version before updating.
- Version 0.42 released on October 5, 2006. Corrected a rounding error that could influence the calculations under certain conditions. It would be prudent to discard all incident files created under earlier versions.

- Version 0.41 released on October 2, 2006. Ability to read MSWord and Text documents under *Access Forms* activated.
- Version 0.40 released on September 30, 2006.