

## S500/S250 Camway – S0009

<u>Revision</u>	<u>Change</u>	<u>Customer Release Note</u>
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1.7.91	CN1447	<p>Bug #499: Save As and Backup cause exceptions</p> <p>Task #522: Use Manual REV1.03</p> <p>Release #410: REV1.7.91</p> <p><u>Fixes and Features</u></p> <p>90. Several batch routines do not get created properly. Fixed.</p> <p>91. Compilation of floating point tokens for vars above F1280 fails. Fixed.</p>
1.7.89	CN1430	<p>Feature #286: Add Arqiva site license</p> <p>82. Tsp Phone and Tsp Net Phone protocols added. Protocol manager improved to cope with number of protocols.</p> <p>83. Analog Explicit archiving added.</p> <p>84. Setup / Add system path reloads paths correctly.</p> <p>85. Analog archive viewer enables seek button if no data queued.</p> <p>86. Maximum tables per program increased to 400.</p> <p>87. The Archive display Refresh option does not repaint the config list. Fixed.</p> <p>88. More links to help pages added.</p> <p>89. Arqiva added to customer list. {Issued 16-Feb-2010}</p>
1.7.81	CN1408	<p>Changes since 1.7.45</p> <p>46. Compiler now copes with a line which consists of just spaces.</p> <p>47. View Program in monitor mode now ignores an indexed var where the bit index is greater than 15.</p> <p>48. Hawk dialup comms now copes with verbose or numeric replies.</p> <p>49. Tsp protocol breaks when sending data to ostn. Fixed.</p> <p>50. Remote zap does not work if V562 says mms is corrupt before zap occurs. All progs report checksum error when downloaded. Fixed by writing zero to V562 and sending a Key command.</p> <p>51. Max ops per prog increased to 8192 for the S485 ostn type.</p> <p>52. Autobaud on S200 / S50 does not detect outstation if sysmap is corrupt. Fixed.</p> <p>53. Retries on remote program download not handled correctly, and failure of Key command hangs comms. Fixed.</p> <p>54. Comms List gets scroll bars on Edit and New, since it was</p>

made resizable. Fixed.

55. Timeouts on Hawk start upload and remote key commands increased.

56. Outstation failed to compute checksum message appears always, but should depend on a checksum failure message.

57. T(ime) type added to display lists, which decodes a profile time value.

58. Open dialog does not pick up manually entered file names. Fixed.

59. Open dialog made single column, as it scrolls sideways when picking an item in the second column.

60. Profile and schedule utility added.

61. Data dump download breaks for S200, as it only handles single word writes. Fixed.

62. Hawkway xml editor maintains firmware entry.

63. Edit Var dialog does not work from a display list when it is invoked from the Monitor menu, and the last edit before it was closed failed. (This can happen when flashing the memory (ie hA001 -> V126. Fixed.

64. CDB altered to allow floats to be editable, offline upgrade altered to handle floats, and mimics altered to handle blocks of floats.

65. Edited is not set after a search and replace. Fixed.

66. Labels form caption not updated if window is open and a new site is loaded. Fixed.

67. Xrefs get line number wrong for first line of prog. Fixed.

68. Batch csv and xml added, driven from scripiter, to extract values from multiple sites into a csv file (using a template held in a .til file), and to extract values from a single site into an xml file, based on an xml file using the standard program name.

69. Xml extract, offline upgrade, console added to extras menu.

70. Grid row text can now be a label. Use L1000# to show labels for V1000, V1001, etc

71. When sending multiple blocks of multivars to an S200 ostn (eg profile download), Rebuild gets called twice after first block, so splitnum gets adjusted twice. Fixed.

72. Time2Str adjusted so it only uses 11 bits for mins past midnight.

73. Date2Str function added, used to display D816 as a monthly timestamp. Archive Monitor now copes with monthly and weekly timestamps. Uses B4 of header word 1 to select type.

74. Zap of S500 now writes 0 to V562 - V570, not just V562.

75. Remote prog download did not control prog enable flags properly since rework. Fixed.

76. Archive viewer shows values for 5-word count packets.

77. Basic profile and schedule editor added.

78. Xref list size increased from 8000 to 10,000.

79. Edit newstyle profile does not adjust count if adding new points. Fixed.

80. Systems added, if CamwayConfig.ini contains Systems=1. Allows switching between different setups from dropdown menu on main toolbar. Systems can be configured from Setup screen. Path points to directory above Work, Mac, etc, and path can be long, since application path names are now relative to the system in use.

81. Customer Severn Trent Water added.

1.7.45

CN1285

Rev 1.7.0

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1. Change Root button added to setup dialog. Select a root directory and it adds \App, \Std, \Mac and \Work for the four paths.
2. Setup dialog Up-Directory sometimes goes to wrong place. Fixed.
3. A number of fixes to printing routines, to improve appearance and placement of text on page.
4. Data values lost in programs if using Edit Mimics and the Eprom editor is opened simultaneously. Fixed.
5. Processor id for Hawk and Rain S485s confused. Fixed.
6. Now prompts for 4-block installation code if user ids are enabled, and product is being installed.
7. The routine which checks if a standard program is about to be input or deleted relies of a flag which is no longer set up properly. Fixed by removing the flag.
8. Selecting network comms now selects a modem automatically if a matching type can be found. Modem type was not rechecked if a new site was loaded with network comms already selected. Fixed.
9. Start Var for Examine list is now a combo list, and stores the last 8 values entered.
10. Extra formatting inserted when an uploaded program is decompiled if a table instruction occurs and the line is already longer than 80 characters.
11. Output Dialog grows every time you open it, due to XP window height fix. All windows checked under XP, and fix deleted.
12. Phone List can be sorted by any column, and address field by station or group first.
13. Remote zap does not decode the processor id correctly, and so sets the firmware version to zero. Fixed.

14. Menu buttons not enabled on ostn mimics unless a program is loaded. Fixed.
15. Utils Edit-Mimic always got data from program. Now gets data from Ostn if there is a Prog o declaration, to make testing easier.
16. Options to create a new list and delete current selection added to data dump utility.
17. Phone list comms type extended from 16 chars to 30.
18. S50 Bedstead protocol closes port at end of first call and does not reopen it. Fixed.
19. Sync failure does not abort call if ostn replies with error messages (eg X0008 for wrong address). Fixed.
20. Setting font colour of Examine StartVar combo breaks text input. Fixed by changing background colour.
21. CamwayConfig file now loaded unconditionally, and can contain Path section, to make selecting regions simpler. Region button with drop down list appears on Toolbar if regions are configured.
22. Scripting added. Can be used to load and save apps and drive some of the batch options.
23. Sync to Server using ftp to transfer files added. Sites.csv and Ffon.csv can now be stored in a \Cam directory, to make synchronisation easier, and to ensure that different files can be used for different regions. Ffon.csv can now include a server and username declaration.
24. Now handles opening a site where the path does not exist on this machine. Shows dialog with options to use the current working directory, change the drive, create the path or browse for a new path.
25. Archive viewer improved, including upload of new-style analog data and old-style analog and digital data.
26. Modem selection dialog gets called after a sysgen. Now ignored if comms is active.
27. Network port does not initialise properly if serial port does not exist. Fixed.
28. Picking ostns from list does not select network modem or ostn type. Fixed.
29. Ostn list now returns \work\unknown, instead of an empty string, if path field is not configured.
30. Eprom offset for TSP on port B wrong. Fixed.
31. Tsp protocol added. Currently ignores any alarm data received. (Vic suggested this, rather than ack it).
32. Comms List loses path when loading from the drop-down list of files. Fixed.
33. Program editor no longer prompts to save an empty file.
34. Batch verify does not always switch to second pass

properly. Fixed.

35. Mimic grids do not always get edit mode right immediately after Edit button is pressed. Fixed.
  36. Batch verify option to catch when app says Prog7 and ostn holds ProgX7, say, gets called if ostn program has no id, and then loops forever. Fixed.
  37. Applicn Verify now prompts to upload a program which is in the app, but not stored on disk.
  38. Batch Rename added, which can only be called from Scriptor. Uses an existing app, copies all renamed custom files to a new path. Renaming uses the Phone dialog path data, and modified app is saved to new path.
  39. Program Verify was enabled after loading site, but is now enabled after loading program.
  40. Eprom port config not working as a result of changing method of reading files from disk. Fixed.
  41. Eprom page does not display data correctly if page is displayed prior to doing a sysgen. Fixed.
  42. Problem with batch input not clearing Editor window fixed.
  43. Autobaud improved, to differentiate between O,7,1 and N,8,1 properly. ('J cr' is the same in both).
  44. Protocol changes to S500 local if using Hawk comms, and phone list includes an entry for the Hawk ostn. Fixed.
  45. Remove all licensed customers ex
- Rev 1.6.84 onwards  
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84. Main window moves up the screen if screen contains a toolbar at the top. Fixed.
  85. Manual sysgen prompts for memory split for S1000 and S1200. Fixed.
  86. Modem connect can now cope with codes of 5x and 6x, for speeds above 9600.
  87. PSTN timeout increased from 9.6 secs to 12 secs.
  88. Pstn timeout set back to 9.6 secs, but timeout for Sysmap increased to 15 secs.
  89. Check Version location now allows indexed variables.  
(Let h1200 = V1300#Vnnn where Version=1300 in CDB)
  90. Various mimic features fixed. First block of vars now adjusts properly. Rotate gets value correct if original value was negative. Refresh implemented. New mimic type 35 added for S1000 IO Cards. Some extra values added to S500 IO Cards mimic type 32. Binary String mimic type 39 added.
  91. Editable assignments for bit vars do not work. Fixed.
  92. Rain ostn added (S485-Rain), with Hawkway becoming an S485-Hawk. Hawk has processor id \$51, and uses Hawk comms. Rain has id \$52, and uses local comms.
  93. Mimic types extended to include Xvar (type 40) and Seg+var (type 41), both of which are used by the Rainway dbase records.

94. Sysgen button added to Modify Site form, and csf/hsf buttons removed.
95. Location of command table for eeprom modem reset moved to V140 to avoid TSP area.
96. Baud and autobaud options added to Modem Config page, to aid detection of S1000 modem, and option to switch from Ostn modem to local modem replaces having to shut down the page, change the comms type, and reopen it.
97. Reset of S1000 fails to end if display list is open. Fixed.
98. Eeprom page shows Pstn,Hayes for S1000. Changed to Pstn,Std.
99. Undefined jump on first line gets line number wrong. Fixed.
- 1.6.83      CN1285      49. User Ids added. If User Ids are enabled in password file, exe file prompts for re-registration, and registration code includes a User Id and an offset from Vmax. When a program is downloaded, bottom byte is filled in with User Id and top byte is incremented.
50. When selecting a telephone number, shows an "Invalid Ostn Type" message if type is not S500, S250, etc. (DCWW keep putting S200/S50 GSM in the type field.)
51. Data dump utility added. Can be used to fetch or send a block of variables, between a start var/seg and a final var/seg. File can be saved as a cdd data file or as a csv file. Lists of blocks can be saved in cdc files (basically csv format), which are saved in the mac directory.
52. Prog View form now postpones exit if open in monitor mode.
53. When creating mimic grids, Edit List is accessed, instead of Grid List, and may cause access violation. Fixed.
54. Mouse wheel support added to Labels checklist.
55. Scrollbars on Labels list not adjusted properly when labels are added using the checklist. Fixed.
56. Manual sysgen does not calculate number of program pages for S200 and S50 ostns. Fixed.
57. XML file units are always mm, but should be % if caltype is int\_us\_3. Fixed.
58. Various text items on Data Dump page improved to make things more obvious.
59. If Verify finds a program with no version Ident, and application includes correct standard name, it prompts for program name, and then loops for ever. Fixed.
60. Applicn Generate prompts for program twice if ostn program has no version number, once to get std prog and once for actual prog. Fixed.
61. When editing phone list or modem list, comment is not added to Edit window. Fixed.
62. EnableAutodial registry entry not set up on Windows XP, so network connect reports it as an error. Fixed.
63. Pascal strings on mimics change last char to #0 if at maximum length, with disastrous results on XML files. Fixed.
64. Measint and Storint both set from the CH1 interval when editing XML files. Measint and Storint both set from the XML values when downloading XML config.
65. Application Delete does not erase Eeprom file. Fixed.
66. Customer list extended.
67. Sysmap does not display properly when remote comms is in use and it runs onto a second segment. Fixed.

68. When editing programs with mimics, clicking the Program menu item creates an access violation. Fixed.
69. Upload and Download of sysmap using Scope protocol gets offsets wrong for S200 and S50 outstations. Fixed.
70. Status page shows \* Time sync \* for Hawkway ostns, and Program Output includes Time Sync option.
71. Remote zap on S500/250 ostns now writes the sysmap directly, so comms line is not dropped on reset.
72. Local comms upload and download now use block read and write commands for newer ostn types at firmware rev 5 or above.
73. Program line length still limited to 40 ops by some of the comms tasks. Fixed.
74. Program "10 End" fails to compile for an S200 because program op contains memory map in high byte. Fixed.
75. Local comms upload and download now use block read and write commands for newer ostn types at firmware rev 4 or above. (for testing of S1000 comms).
76. Local comms upload and download now use block read and write commands for newer ostn types at firmware rev 5.06 or above. (Ostn bugs in lower revs).
77. Location of command table for modem configuration moved to avoid TSP area.
78. Open Site fails if app points to a non-existent drive. (eg G:, and there is no G: on the current machine). Fixed.
79. Read Program selection changed from a tabbed listbox to a ListView.
80. Printer initialised to use Courier 10 font (was MS sans serif 8)
81. Checksum addition eeprom config written past end of memory for ports B onwards. Fixed.
82. Checksum addition checking added to checksum routine.
83. Messages from Eeprom Config page do not contain checksum or radio header when using remote comms. Fixed.

- 1.6.48 CN1260 37. Customer list extended.
38. CDB program section can now take a ,C after the program name. If present, a "Restart ostn to initialise config?" prompt appears, and selecting Yes issues a halt and run command.
39. CDB dialog only allowed 8-char program names. Extended to 15.
40. Mouse wheel support added to View Program.
41. Hawk comms modified to cope with 1.12 memory map.
42. Hawk alarm bytes use bits 0,1,2 and 6, but other bits may not be clear, so are now masked out.
43. Minor changes made to format of xml files. Engval now saved in xml, and extracted to Mimic Map but not to Hawk Data.
44. Closing the Eprom dump window causes an access violation because it trashes CdbData. Fixed.
45. If any sub forms with active comms are open when exit selected, application can sometimes lock up. Forms are now closed, and exit is postponed.
46. Backup to network causes access violation if browse is selected with no path, or browse is closed with no path selected. Fixed.
47. Path selector for new sites does not allow directories with dots, and program editor saves headings in wrong place if path includes dots. Fixed.
48. Application SaveAs allows filenames longer than 15 chars, and some utilities (eg Applicn Delete) fail with longer names. Now prompts to truncate the name.
- 1.6.37 CN1257 Added SE Water license.
- 1.6.36 CN1256 30. Recalibrate flag added to Hawk mimics, which fills Engtable with values based on the config and the current value read back from the ostn. Only works on Hawk Config protocol.
31. When outputting XML using the "erase all data" option, time dialog pops up, since it is essential to set the time to accurate GMT. Time dialog includes a GMT button. Output of config reworked, to ensure time stamps account for delays between setting time and sending data.
32. Xml program is not compiled after a program input. Fixed.
33. OK button on Output XML dialog disabled during download, to prevent multiple presses.
34. Hawk Config protocol now overrides parity as well as data bits and stop bits.
35. Program status can show Updating, Erase+Upd and Uploading for Hawkway queued items.
36. Queue Upload item added to Programs menu. Only visible if OS type is S485. Writes \$0400 to V563.
- 1.6.29 CN1255 28. Check Token fails for B15Vxxx since extra floats added. Fixed.
29. Restore from floppy now loads Labels as well as copying them.
- 1.6.27 CN1254 Add Site License capability for Severn Trent Water, Wessex Water and NTL.

- 1.6.26 CN1251
44. Help About screen modified to include CSE-Seprol details and Helpdesk phone number.
  45. Failure during dialup or synchronisation, or loss of carrier now shuts down modem and network properly.
  46. Applien Save As now copies Notes file and EPD file.
  47. Access violation if ostn is last in phone numbers list, since resolver tries to access the following number. Fixed.
  48. Ffon list uses the Comms type more intelligently. When picking a modem, Ostn comms type is shown, to aid choice. When selecting network comms, it checks if the Modem comms field is the same as the Ostn comms field, and displays the Modem dialog if not.
  49. Offline Upgrade added to batch menu. Runs upgrade files in memory, including files using \$force, \$this and \$prev, and prompts for changing unmodified site-specific programs to standard ones.
  50. New site based on old site does not copy the Notes and Epd files correctly, because names are changed before they are copied. Fixed.
  51. Open Socket and Hang Modem buttons added to Modem Config. Open Socket connects, but does not dial, so you can talk to the modem. Hang Modem forces the Hang command, since it needs to send +++ without a CR.
  52. Edit Comms List does not set up OS type correctly. Fixed.
  53. Ffon list always shows first entry in list, rather than name of loaded file. Fixed.
  54. Autodial Internet switched off when opening a network connection.  
("HKEY\_CURRENT\_USER\Software\Microsoft\ Windows\CurrentVersion\Internet Settings\EnableAutodial").
  55. Printing a labels selection does not calculate first page correctly. Fixed.
  56. Changing the value of the first cell of a mimic grid is ignored immediately after mimic displayed. Fixed.
  57. Customer Resets added. Cdb file contains a [RESET] section, with entries such as 'Memory=V32767,0'. Six items can be included, and appear on the Utils \ Reset menu. Selecting this entry writes 0 to V32767, and then issues a Halt and Run. Reset Outstation also included on menu, and option to send all Customer Resets.
  58. Table data can now include floating point constants in odd positions, so value occupies D2 and D3 of same op. Uses opcode 131 (get fp constant).
  59. New types 36 (6809 float) and 27 (z-term string) added to mimics, for editing fp table data and text data.
  60. Mimic screens reworked, to include menus as tabs along the top, and to replace indexed edit boxes (Types 21, 22 and 23) with proper combo boxes.
  61. 200ms delay added between receipt of Hang confirmation message and shutting the port on remote protocols, to ensure port closes completely rather than partially.
  62. MS Linedraw replaced with Courier New on Dialup Statspage.
  63. Problems with mouse activity on grids since mimics reworked. Fixed.
  64. Eprom filename added to site file. Defaults to Sitename if it does not exist. Eprom and notes files default to checked on backup and restore.
  65. Clicking on a mimic label creates an Invalid Typecast error, because type has changed to TStaticText. Fixed.

- 66. Loading a second port config file crashes the Eprom editor, because invisible items attempt to fetch data. Fixed.
- 67. New types 28 (pascal string), 37 (IEEE float), 38 (Julian time), 84 (char) and 71 (image) added to mimics, for editing of Hawkway data. Mimics also include a new [PICS] section to set up images.
- 68. Text View utility added to view fixed length text data.
- 69. Support for Hawkway outstations added, including Sysgen, Hawk and NetHawk comms. Inifile and Xmlfile instructions added to compiler (compiles as 10 End with \$8000 flag for inifile and \$4000 flag for xmlfile, similar to Text / Table). Hawkway Processor ID is \$51, and type is S485.
- 70. Xml and Ini extensions used by programs if ostn type is Hawk.
- 71. RunProgram compiles and decompiles Xml, overlaying record on editable variables, so Xml can be edited with mimics.
- 72. HawkConfig comms added, using Modbus comms direct to Hawkeye outstation. Only xml configuration is allowed.
- 73. Hawk application files now use a .HSF extension.
- 74. Program SaveAs now gets extension right for XML and INI files.
- 75. Support for mouse wheel added to Editor, Labels and Xrefs.
- 76. Restore from floppy saves site file to floppy. Now saves it to \App directory.

Rev 1.6.0

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{Issued to DCWW 15-Mar-2005}

- 1. Chat mode not passed through to network protocols when initialising a network modem. Fixed.

{Issued to DCWW 1-Apr-2005}

- 2. Phone number resolver pops up during batch output, each time the sysmap is retrieved, for Ostns with dual numbers. Fixed.

- 3. A program can be loaded during a batch operation, with unpredictable results. Now disabled, and dialog explains why.

- 4. Restore from network trims path, probably since 1.5.76 fix. Fixed.

{Issued to DCWW 25-Apr-2005}

- 5. Hawk battery setpoint compiled in wrong place. Fixed.
- 6. Xml file not marked as edited if altered by mimics. Fixed.

- 7. Hawk config protocol modified. Can now select output and input program. New commands menu added, to send Dial requests and monitor Hawkeye modem comms.

- 8. Applications sometimes get extn wrong, as ostn type is extracted after the file name is rebuilt. Fixed.

- 9. Site extn may be wrong when creating a new site. Modify site dialog now includes a Csf/Hsf switch, and may set cpu type to 485 or 500 if required.

- 10. Comms monitor, Modem config and Hardware mimics did not interpret Modbus, Mitsubishi and Allen Bradley config. Fixed.

- 11. Text view improved to enable PageUp and PageDn, and prevent scrolling past ends of

memory.

12. Extra floats overlaying Vspace added. FO to F127 still overlap V32512 to V32767. New floats are labeled F1280 to F32766, and overlap V1280 to V32767. Requires Sercal Runtime V10.
13. Display lists get bit numbers wrong on remote protocols, since 1.6.12. Fixed.
14. Batch Verify does not detect a program in the ostn with a different ident to that in the application. Now prompts to update application.
15. Batch verify now repeats the checks for a program if the ident was different and the app was updated.
16. Radio header stripped from message before checksum is calculated. Fixed.
17. Telephone number resolver fails if a number is selected and OK is clicked. (Dblclick is ok). Fixed.
18. Import Labels and Cross Reference get bit numbers wrong, since 1.6.12. Fixed. Labels editor does not show BO. Fixed. Mimics reference wrong bit number for documentation. Fixed.
19. Eprom Restore can potentially change V64, altering the memory map, including the segment on which the programs are stored. Fixed so it ignores V64.
20. Application Saveas copies and renames eprom and notes files if they exist, but does not rename them if they do not. Fixed. In some places, Eprom name is still assumed to be the same as the application name. Fixed, so it always uses the Eprom name from the application.
21. Block Move and Copy cannot append a block to the end of the database. Block Copy and Delete do not adjust the list size on completion. Fixed.
22. Version of Display Lists increased from 2 to 3. Bit numbers are increased by 1 if a file at version 2 is loaded.
23. Ostn List and Modem List now resize, Comms field changed to a Modem field, and a Comment field added.
24. Eprom Refresh invoked when you close the restore dialog.
25. Resetting the S1000 after editing Eprom can take up to 20 secs. Progress bar added to reset dialog, to show activity.
26. Changing Eprom on S1000 takes about 1.2 secs (only 300ms on S500). Now reads back V126 at 300ms intervals until success or duplicate state signalled.