DCON Utility revision history

Last update:

DCON Utility   Version 5.1.8
Release Date   Apr 21 2010

New Features:
None

Support:
1. M-7022 B102 or later supports Modbus ASCII protocol,and add "parity"
    PPDS-734-MTCP,PPDS-743-MTCP and PPDS-762-MTCP)
2. I-87005W supports on 87Pn I/O expansion unit
3. I-87042W and I-7061 support

Modify:
1. Add " engineering data format for Modbus protocol" ,
    "type code 4: 0 ~ 5" and "Parity" functions for M-7022 B101 or later

Fixed Bug:
1. Can't configure checksum enable module in XP-8000-CE6

COM2~COM5 (In XP-8000-CE6 side, DCON_CE_XP must be above V604)

All revision information:

[Version 5.1.7] [Feb 11 2010]

New Features:
1. Support ET-87P4, ET-87P8 (Auto Configuration and Hot Swap)
2. Support 87K high profile module plugged in ET-87P4 and ET-87P8

Support:
1. Support PPDS DIO MODULE (PPDS-721-MTCP,PPDS-732-MTCP, PPDS-734-MTCP,PPDS-743-MTCP and PPDS-762-MTCP)
2. Support I-7088 and I-87084W module
3. Support I-8084W,I-8088W and I-8093W on i-8000,iPAC-8000 DCON firmware (DCON firmware must be version A435 or later)
4. Support I-87084W and I-87028CW on 87Pn I/O expansion unit

Modify:
1. Add "Modbus Response Delay Time" and Parity functions for M-7058 version 100,M-7045 version 110,M-7060 version 170 and M-7067 version 170 or later
2. Add "no command received timeout" function for M-7017 version C104 or later
3. Add "display 3 channel temperature on the LED display in turn" function for M-7033 version B201 or later

Fixed Bug:
1. When DCON Utility searches M-7080BD ,it shows "7080Z"

2. M-7018 can't set channel CJC function
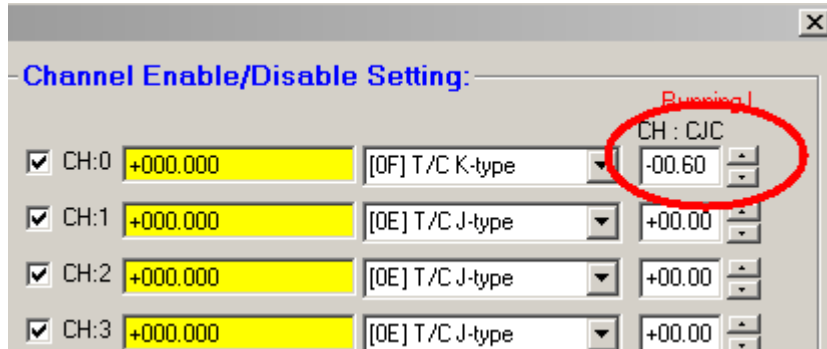
3. I-7017 and M-7017 show wrong AI value in Hex data format
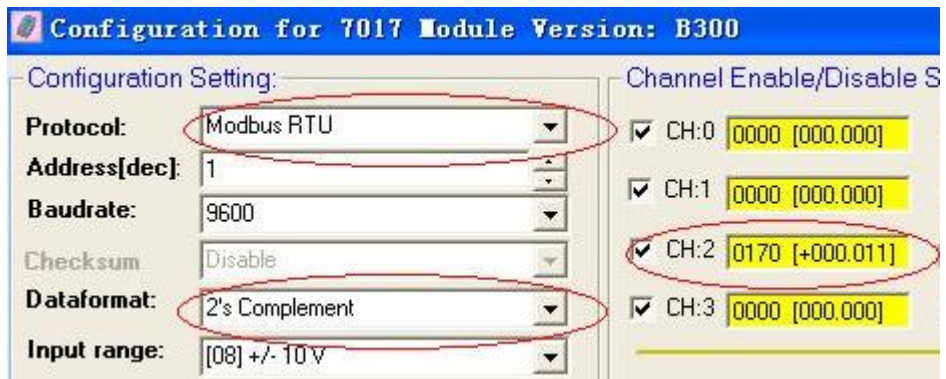
[Version 5.1.4] [July 21 2009]

New Features:
  1.Configure I-7K and I-87K DCON modules on the XPAC_CE (CE 6.0 OS)
     COM 1 ~ COM5 via Ethernet
Support:
  1.Support DCON Module : I-87005W、I-87028CW and I-87061W
  2.Support Zigbee module: ZB-2052 and ZB-2060
  3.Support I-87059W on RU-87Pn and USB-87Pn
Fixed Bug:
  1.Fixed WDT03 display problem
  2.Fixed display error on I-87017W module (Input Type 0~20 mA)
  3.Fixed M-7080B Filter setting problem
  4.Fixed I-7188EF-016 Digital OnLine Status problem
Modify:
  1.Remove LED.ocx(modify relation forms:DIO、I-7188EF-016、Xboard and
PDS-700)

[Version 5.1.2] [Apr,16,2009]

New Feature:
1.Configure 7000 and 87K DCON modules on the XPAC (Window XP OS)
COM 1 ~ COM5

[Version 5.0.6] [July 25 2008]

□ 《 Revision history 》
□ 《 Supported OS 》
□ 《 Supported I/O Module list 》
□ 《 Introduction and user manual 》
□ 《 Technical support and service 》

● Revision history：

DCON Utility Version 5.0.6 :
 New Features:
  1.Configure 7000 and 87K DCON modules on the WinPAC-8000
    backplane、COM2 and COm3 via Ethernet
  2.Configure 7000 and 87K DCON modules on the WinCon-8000
    backplane and COM3 via Ethernet
 Support :
  New support modules: i-7059、i-7080BD、m-7011、
  i-87017A5、i-87017E5、i-87053A5 and i-87053E5 modules
 Modify:
  1.Add watchdog function for the i7012、i7014 and i7016 modules
  2.Add Engineer data format for m-7017 (B300) and m-7018 (B305)
    modules in the Modbus protocol
  3.Add Input Range : 4 ~ 20mA and 0 ~ 20mA for m7018 (B304)

 For more Revision History, please refer to

http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/dcon_utility_ver_500.txt

● Supported OS：

 DCON Utility can support most Windows OS ,
 including Windows XP、2000、NT and Vista(32 bits),
 but it can't support old Windows (ex: win98)

● Supported I/O modules:

DCON Utility can support most ICPDAS module,
it lists all of the supported modules and version in the below page ：

http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/dcon_utility_module_list.htm

● Introduction and user manual

About DCON Utility introduction, Please refer to
http://www.icpdas.com/products/dcon/introduction.htm
And the user manual is located at:
http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/manual/

● Technical Support & Service:

For technical support and service,
please contact us at this email : service@icpdas.com
or visit our web site at http://www.icpdas.com

[Version 5.0.5] [Jun,20,2008]

New Features:

87K module configure and set at WinPac 8000

Support:

New support module: i-7059、i-87053A5、i-7080BD and m7011

Bug Fixed:

Fix disable WDT and safe value in the Modbus 7000 DIO module

Modify:

1.Add i7012、i7014 and i7016 WDT

2.Add m7017 (B300) and m7018 (B305) Modbus Engineer data format

3.Add m7018 (B304) Type Code: 4 ~ 20mA and 0 ~ 20mA

[Version 5.0.0] [Mar,20,2008]
  Support:
     1. Analog input module：87015P,7015P 87018Z
     2. Digital input module：87059W
     3. USB-87Pn Auto Configuration Remote Expansion I/O Unit.

  New Feature:
     1.Support multi-Language :default for English and Traditional Chinese
        Users can add languages by themselves, please refer to
        ICPDAS\DCON_Utility\language\Readme.txt

  Modify:
     1.Add Watchdog configuration for 8410/8810;8430/8830 DCON Firmware
        For   8410/8810 DCON Firmware please refer to

ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/dcon/8410_8810/firmware/for_256
k_sram/dcon/

[Version 4.5.0] [Oct,16,2007]

Support:
1. RU-87P4,RU-87P8 Auto Configuration Remote Expansion I/O Unit.
2. M7018Z Modbus AI Module.
3. 7017Z ,7017A5, 87017A5 AI module
4. 7083,7083B Encoder module

Modify:
1. Add Parity check function for 7018R,7015,7033,87013
2. Add Engineering format for Modbus 7018Z ,7015 (Ver>=B202) and 7019R (Ver>= B300)
3. Add 7019R,87019R,7018Z,87018Z,7015,87015,7005 Calibration Function

Fix bug:
1. 7005 can not set user define type code.
2. Can not use WinCon to Configure 87015,87005

[Version 4.4.3] [Jan,23,2007]

Support:

  1. 7019Z,87019Z 10 Channel AI module.
Modify:
  1. To make it compatible with ODM version of 7018Z.
  2. Add Channel Temperature Offset function for
7015,87015,7019R,87019R and 7005
  3. Remove the MDI Form and Add Start Search Address Option
  4. Add Hex Format Data Conversion for Analog module
  5. Support new type code 0x82 and 0x83 for 7017/87015
  6. Support 50/60 Hz filter setting for 7015,87015,7018Z,87018Z
  7. Support new type code 0x2E, 0x2F, 0x80 and 0x81   for 87013

[Version 4.4.2] [Sep,20,2006]

Support:

1. 8017ML(87K),8017RC(87K) when 87017ML and 87017RC inserted into i-8000 system.

2. 87017RC,87017ML when 87017ML and 87017RC inserted into i-87K I/O Expansion.

3. 87017RC,87017ML when 87017ML and 87017RC inserted into WinCon 8000 system.

4. 7018Z,87018Z 10 Channel AI module.

Modify:

1. add watch dog status detection for all 8K DIO, 7K and 87K modules.

2. add type code information for all analog modules.

Bug:

1. Doesn't support input range of L- (0x17) and M- (0x18) thermocouple types

for 7011P and 7018P modules.

2. Doesn't support 7005 ohms data format.

Note:

1.The Firmware must be A3.08 or above to

support 87017ML and 87017RC inserted into i-8000 system.

2.The Firmware must be DCON_CE_V201.exe or above to

support 87018Z,87017ML and 87017RC inserted into WinCon 8000 system.

[Version 4.4.0] [Apr,27,2006]

New Support Modules:
    1. 8082,8019(87K),8015(87K),8082(87K),8015T(87K),8017HS DCON
protocol
        modules which inserted into the i-8000 system.
    2. M-7022 modbus RTU Analog output module.

Note1:The i-8000 DCON firmware must be A3.07 or above to support
    the 8019(87K),8015(87K),8082(87K),8015T(87K),8017HS.

Note2:The 8015T(87K) is an ODM product,not formally release one.

Note3:For 8017HS, when the selected jumps are
    located at single end position,it can support 16 channel   Analog Input.
    When located at differential,it will be named as 8017H/HS,
    it can support 8 channel Analog Input.
Note4: 8082 and 8082(87K) are totally different I/O modules.

Modify:
    1. i-8018 add module CJC and channel CJC function.
    2. 7021,7022,7024,87022,87024,87026 add AO safe value.
    3. Add Modubus Response Delay Time for Modbus modules include
Analog input,
        Analog output and Counter/Frequency I/O modules.
    4. Single Line add Modbus RTU Function.
    5. Save Map function can save the search result to map file.
    6. Open Map function can load the saved result to search form.

[Version 4.3.9] [Oct,31,2005]

New Support Modules:
   M87019,M87015,i-87019,i-87015 modbus and DCON protocol modules.
   M7024 Analog output module.

M7041,M7045,M7050,M7051,M7052,M7053,M7055,M87063,M87055,M87040,M87041,M87053 modbus DIO modules.
   M7015,M7033 modbus protocol modules.

Modify:
   7019 module add CJC adjustment for each channel.
   7018,87018 add CJC adjustment for each channel.
   i-7015,i-7033,i-7013 support new type code 0x2E,0x2F,0x80,8x81.
   i-7021,i-7022 support new hex data format.
   7080 add new function to set the filter setting to default value.
   i-8000 MCU add new function to reverse the DI active status.

Fixed Bug:
   debug 7019 when setting type code will show run time error.
   when modules' checksum are enabled,it will get the wrong firmware version.
   when thermocouple module's AI values are close to -0 ,it will get -0000 under range error code.
   i-7005 module can not link to Help file.

   Note1:The i-8000 DCON firmware must be A3.05 or above to support the DI active status reverse function.

[Version 4.3.8] [Mar,2,2005]

Fixed Bug:
Install Shield package not include "MSWINSCK.OCX" and
wil get run time error, if Windows\system32\ does not have this file.

[Version 4.3.7] [Feb,1,2005]

New Support Modules:
   i-7045,i-7055 I/O modules
   M7067 Modbus RTU Protocol modules.
   7188EF-016 RFNet modules
   WinCon:when 87K module are plugged into WinCon I/O slots.
Modify:
   Thermocouple module add CJC enable/disable function.
Note:
   i7000.DLL must be ver 5.1.4 to support i-7045,i-7055,7188EF-016 FRNet.

[Version 4.3.6] [Dec,27,2004]

New Support Modules:
   i-7051 16 channel DI unit
   M7060,M7017,M7018,M7019 Modbus RTU Protocol modules.

Modify:
   RunMonitor:
      1.support Modbus protocol
      2.add simple data log function

   8080 unit:
      Each channel can set channel mode independent

   7015 add type code 0x2E,0x2F,0x80,0x81

   7016 unit:
   2-Channel (By Switch):
      If 7016 firmware < B1.3
      It can not read two channels' value at a time.
      It needs to use command $AA0 or $AA1 to switch channel
         and system need to delay 300 ms each time when program
         use #AA to read each channel's value.
      In this case,the sampling rate is about 2 Hz.

   2-Channel Mode:
      If 7016 firmware >= B1.3
      When program use command $AA332 to set 2-channel mode
         It can read two channels' values at a time by using #AA.
      In this case,the sampling rate is about 2 Hz.

   Single Channel:
      If 7016 firmware < B1.3
      It need to use command $AA30 or $AA31 to set to channel 0 or channel
1.
         then use command #AA to read the analog value.
      In this case,the sampling rate is about 10 Hz.

If 7016 firmware >= B1.3

It can use command $AA30 or $AA31 to set to channel 0 or channel 1.

    or use command $AA330 or $AA331 to set to channel 0 or channel 1.

    then use command #AA to read the analog value.

In this case,the sampling rate is about 10 Hz.

Fix Bug:

    87K Analog unit:

    87013,87017,87018 can not read AI value when address >=1

    Note :this bug will take place when these modules are plugged

       in 87K I/O Expansion.

  Note:

    uart.dll must upgrade to 2.1.4 or above to support
M7060,M7017,M7018,M7019

    i7000.dll must upgrade to 5.1.3 or above to support i7051 and new 7016
command

    firmware must upgrade to A3.0.3 to support new 8080 lib

[Version 4.3.5] [Oct,20,2004]

Fix Bug:

8013(87K) when change SSTab page will get error description.

When open 8024(87K) will get run time error.

[Version 4.3.4] [Oct,7,2004]

    Supported modules:

      7005 unviersal 8 channels thermistor with 6 Digital output module.

    Modify:

      7011,7012,7014,7016 units support power on value and safe value function.

      7011,7012,7014,7016,7033 support LED Display function.

      Add Version information at main form.

[Version 4.3.3] [Aug,5,2004]

New support modules:
8050

Note:
DCON Firmware must be A3.0.1 to support 8050
I7000.DLL must be Ver 5.1.2
Uart.DLL has been upgraded to 2.1.1

[Version 4.3.2] [Jun,15,2004]

New support modules:
    7015
    8080 (*)
    (plugged into an I-8000 main control unit)
    87082
     (plugged into an I-87K expansion unit)

Modify:
1. 7019R write channel status(Enable/Disable) into EEPROM
    when click check box.
2. 8017H Get rid of filter rejection and data format setting (**)
3. Disable Slew rate setting of 8024 (**)

Fix bug:
1. 8017H can not set alarm to DO module that is plugged in slot4 ~ slot7
2. 7012 can not apply alarm setting function.
3. 7012 DI signal picture can not match the right value.
4. 7014D linear mapping range display can not work properly.
5. Utility can not run on Windows NT4.0.

Note:
    *   for 8080, the firmware version must be A3.00 or above
    **   for hardware does not support this function.

Relative Information
Firmware
  For RS232,RS485
    CD:\NAPDOS\8000\841x881x\firmware
  For Ethernet
    CD:\NAPDOS\8000\843x883x\TCP\Vxcomm\Server(843x883x)

MiniOs7 image (40MHz):
  for 40MHz CPU ===> 8k040330.IMG

CD:\NAPDOS\8000\843x883x\TCP\Vxcomm\Server(843x883x)\os_image\40

MHz

   for 80MHz CPU ===> 8e040420.IMG

CD:\NAPDOS\8000\843x883x\TCP\Vxcomm\Server(843x883x)\os_image\80
MHz

[Version 4.3.1] [May,13,2004]

Fix bug:
1. 7019R when setting input range shows run time error 9.
2. 87018 when adjust cjc offset up down shows   run time error 340.

Update:
1. firmware must be version A1.98 or above
2. dll must be be version 5.0.9 or above
3. uart.dll must be 2.0.5 or above

[Version 4.3.0] [Apr,22,2004]

New support modules:
   7019
   87040,87041
     (plugged into an I-8000 MCU or I-87K expansion unit)

Add new function:
     1. All thermocouple modules can display cjc temperature and can adjust
cjc offset
          include module 7011,7018,7019 and
          87018 (plugged into an I-8000 MCU or I-87K expansion unit)
     2. all 87k digital input DI count\latch function has
          been supported when these modules were plugged into 8K MCU.

Modify:
   1. When 87k modules are plugged into the 8k MCU,
       the module's name will change to 80xx(87K).

Fix bug:
   1. 8017H input range was wrongly defined .
       Run Data log shows garbage sometimes.

Update:
   1. firmware must be version A1.97 or above
   2. dll must be be version 5.0.9 or above
   3. uart.dll must be 2.0.5 or above

[Version 4.2.9] [Feb. 20,2004]

Supported modules:
   8069, 87069
   (plugged into an I-8000 MCU or I-87K expansion unit)
Fixed bugs:
   Run Data Logger unit:
The generated log file can not be displayed normally
   on the English Microsoft Platform
   8017,8018 unit:
      DO Map Enable/Disable function mismatch
      at the High Alarm Setting between channel 1 and channel 7.
Modified:
   87K Digital I/O user interface:
      1. Combine frm8KDIO and frm87KDIO as frmDIO.
   87K digital input DI count\latch user interface:
      1. Completely resigned user interface
      2. Increase the support for max channel from 16 to 32 channels
   8017,8018 unit:
      Added message box when setting the high alarm
      and low alarm configuration of the 8017,8018 units.

Added new functions:
   Terminal->Single Line:
      1. Timeout value can be adjusted.
      2. 8 set command line lists can be memorized.

   Note:
   I-8000 MCU Firmware must be version A1.96 or above to support
8069,87069.

[Version 4.2.8] [Jan,05,2004]

Fix bug:
Setting module address error. Modules Address up down button
does not work, includes:
7011,7011P,7012,7012F,7013,7014,
7017C,7017FC,7017RC,7017R,7017FR,7017FRC,
7018,7018P
Update:
uart.dll   ===> 2.0.5
7000.dll   ===> 5.0.9
ICPCON.HLP is replaced by DCON_HELP.chm ver 1.0
Add:
add a module list that the Utility support.

[Version 4.2.7] [Oct,14,2003]

Support modules:
7017C,7017FC,7017RC,7017R,7017FR,7017FRC,
7018BL,
7058,
8037

Modify data logger:
Log_Config.txt (original default.log) ===> to configure how to log data
Log_Report.txt (original report.log)   ===> the logged data
The syntax is also chnaged.
Please refer to the comment in the Log_Config.txt.

Fix bug:
Setting 87017 in 87K expansion unit error.

Update:
uart.dll   ===> 2.0.4
i7000.dll ===> 5.0.8
Note: Firmware of I-8000 MCU must be A1.95 to support 8037.

[Version 4.2.6] [Jun,13,2003]

Remove files:
   Dones't copy following files to windows\system.
   mfc42.dll, msvcrt.dll, msvcrt20.dll,
   oledlg.dll, riched32.dll

Change directory:
   Copies following files to DCON_Utility directory
   instead of windows\system.
   olepro32.dll, oleaut32.dll, stdole2.dll,
   asycfilt.dll, msvbvm60.dll

Fix bug:
   Cannot recognize the difference between 7018 and 7018P.

[Version 4.2.5] [Apr,25,2003]

Update:
 i7000.dll ==> 5.0.6

Support:
 1. 87022 (plugged in I-87K expansion unit)
 2. 87026 (plugged in I-8000 MCU or I-87K expansion unit)
 (command sets are same as 87022)

 Note: Firmware of I-8000 MCU must be A1.94

[Version 4.2.4] [Jan,16,2003]

Change name of the Utility to DCON Utility

Update:
   i7000.dll ==> 5.0.5
Support:
   1. 8077 (command sets are same as 8054)
   2. 8017MP (command sets are same as 8017H)
   3. 8017LP (command sets are same as 8017H)
   4. 87022 (plugged in I-8000 MCU)
   (command sets are same as 87024 plugged in I-8000 MCU)

Note:
   1. MiniOS7 must update to 1.04 build 012, Dec, 27, 2002
   2. Firmware of I-8000 MCU must be A1.93

[Version 4.2.3] [Nov,05,2002]

Fix:
   87018 input range support 3 T/C type
     1. L-type
     2. M-type
     3. L-type(DIN43710)
Note:
   Firmware of I-8000 MCU must update to version A1.91 or later.

[Version 4.2.2] [Oct,29,2002]

Fix:
[Run-time error: 13]
when click 87017 that plug on 87K expansion unit.

[Version 4.2.1] [Oct,15,2002]

Fix:
[Run-time error: 339]
when click 8K digital mudules that plug on I-8000 MCU.

[Version 4.2.0] [Sep,24,2002]

Update:
  i7000.dll ==> 5.0.3
Support:
  8040,8041,8042
Add:
  Power On Value, Safe Value setting of 8k DO, DIO modules

[Version 4.1.2] [Jul,11,2002]

Update:
  uart.dll   ==> 2.0.1
  i7000.dll ==> 5.0.2
Add:
  Excitation voltage configuration for 7016

[Version 4.1.1] [Apr,3,2002]

Add:
Fast Mode for 87017
Filter Setting for 87013
87017
87018

[Version 4.1.0] [Mar,17,2002]

Update:
  uart.dll   ==> 2.0.0
  i7000.dll ==> 5.0.0
Fix:
  8013,87013 reads values error.

[Version 4.0.9] [Feb,29,2002]

Support 8058, 87058
Fix:
Checks the COM port before searching.

[Version 4.0.8] [Jan,22,2002]

Fix:
1. searching error when address >= 16(Dec).
2. setting 8017 & 87017 error when address >= 16(Dec).

[Version 4.0.7] [Jan,14,2002]

Upgrade   uart.dll   14-Jan-2002 pm 1:39   8.13 Sleep version
   to reduce CPU resource consumption.

[Version 4.0.4 Beta2] [Nov,19,2001]

Support 752N
Search 8X3X/8X4X by only one address (skip N-1 address).

[Version 4.0.4] [Oct,20,2001] by Kevin

Fix:
   1. Run log file, first line is explain.
      For example: "This is test log."
   2. Search timeout is too short.

Support 8X3X, 8X4X.
Search 8X3X/8X4X by only one baudrate.

[Version 4.0.3] [Oct,19,2001] by Kevin

Remove auto search function

[Version 4.0.2] [Jul,10,2001]

  i7000.dll   10-July-2001 pm 3:14   0460
  uart.dll   13-July-2001 pm 5:43   8.1

  fix:
     1. 8017 T/C input range mapping error
     2. 8017 Filter selection error

  change:
     1. Timeout of open comport change to be 2 seconds
        (original timeout is 10 seconds)
     2. Install i7000.dll and uart.dll into 7000 Utility directory
        (original into windows\system)