How to Set, Store, and Restore Channel Settings

The subroutines shown below are used to set, store and restore channels settings. These settings could be anything from digital filter settings, to the sensor type on channel {1,1,1,1}.

```
Open_instruNet_Window()        Open an instruNet World window
Set_instruNet_Network_State()  Load all channel settings into an array
Get_instruNet_Network_State()  Restore channel settings from array data
```

These routines are exposed through the iNet32.DLL and through the INET_INT.C interface file; and are documented in file INET_INT.C.   The following C code, from file INET_EX3.C, demonstrates how to show the instruNet settings window from within a program, load an array with the settings, store this array to disk, load this array from disk, and restore the channel settings.

```
// -----------------------------------------------------
//  Open the instruNet Network Window, and get the state of all the instruNet channel settings.

  e = Open_instruNet_Window(iNetCM_OpenWindow_Network /* 2 */,0L,0L,0L,0L,0L,0L,0L);

// -----------------------------------------------------
//  We will now ask the instruNet driver to place all the channel settings into the settings[] array.

  e = Get_instruNet_Network_State(&settings[0], SETTINGS_BYTES, &numBytesOfData );

// -----------------------------------------------------
//  Store all the channel settings to disk  (after the user set them as desired in the NETWORK window).

  file = fopen( "iNetSettings", "w");          //        save the settings data to disk
  fwrite(&settings[0], sizeof(char), numBytesOfData, file);
  fclose( file );

// -----------------------------------------------------
//  Read the settings file in from disk.

  file = fopen( "iNetSettings", "r");          //        open the text file & read its data
  numBytesRead = fread(&settings[0], sizeof(char), SETTINGS_BYTES, file);
  fclose( file );

// --------------------------------------------------------------------
//  Restore the instruNet channel settings to that which was saved on disk.

  e = Set_instruNet_Network_State(&settings[0], numBytesRead);
```

If you are working with Visual Basic and instruNet software > v1.35, please see the following VB routines for more information on this topic:

```
Set_instruNet_Network_State_VB(), file INET_Interface.vb
Get_instruNet_Network_State_VB(), file INET_Interface.vb
SaveOrLoad_DataAndState(), file INET_Interface.vb
PRESS_iNet_BUTTON(), file INET_Marcos.vb
  - iNetCM_BtnPress_Network_Restore, Press 'Restore' button in NETWORK page
  - iNetCM_BtnPress_Network_Store, Press 'Store' button in NETWORK page
  - iNetCM_BtnPress_Network_Open, Press 'Open' button in NETWORK page
  - iNetCM_BtnPress_Network_Save, Press 'Start' button in NETWORK page
```