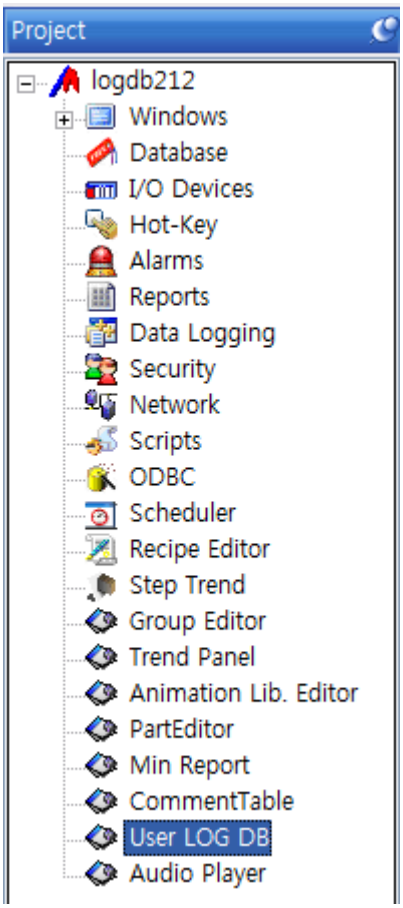
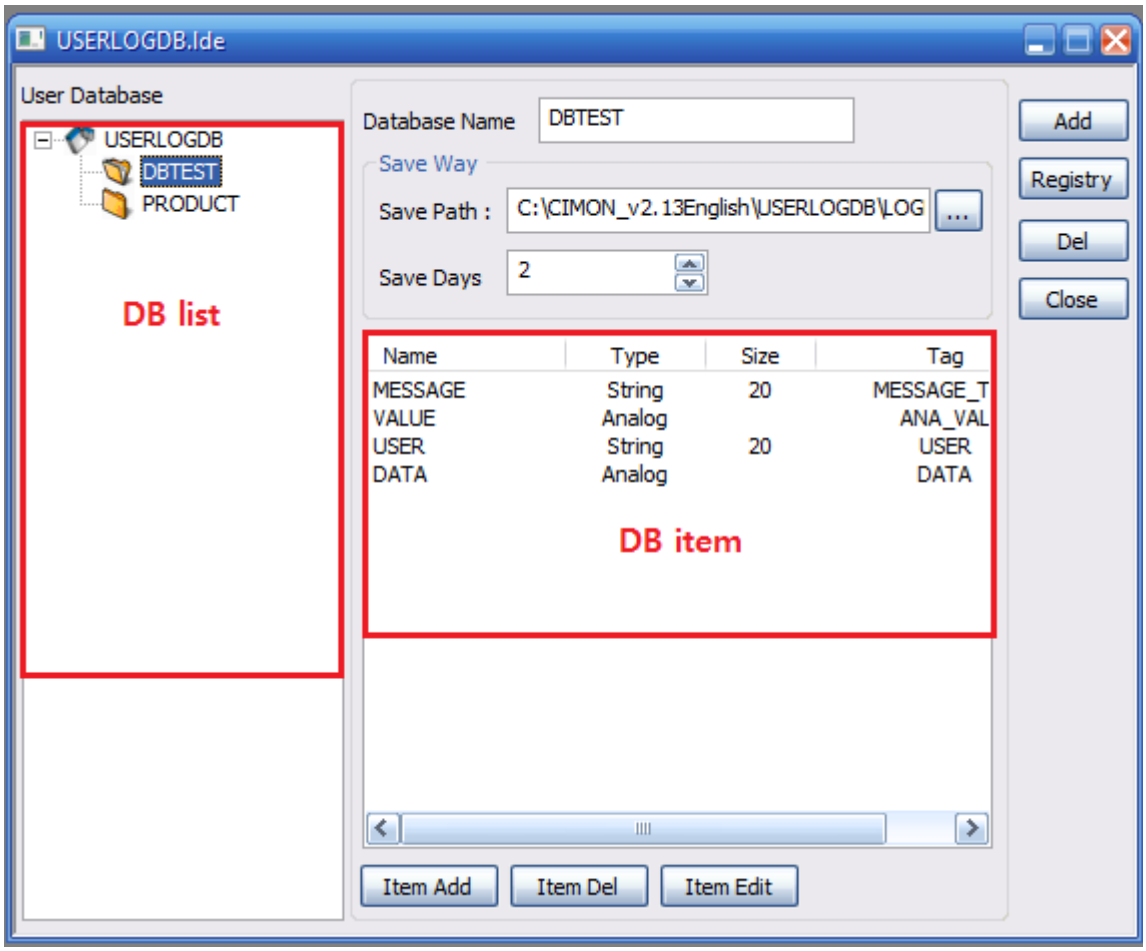
USER LOG DB overview

1) USER LOG Database is used for simple data search or data insert in CIMON-SCADA instead of using commercial database.
2) The data will show on "List Control"
3) The data can be printed out as PDF or Excel format. Therefore, user cannot modify PDF format.
4) This manual is made under assuming that user is able to use CIMON-SCADA basic functions.

1) DB Model Editor



USER LOG DB



Open CimonD and click [Tools] → [User LOG DB]

[DB Model Editor]

① Database Name - Write DB model name

② Save Path - Select Save Path which Log Data file will be saved

③ Save Days -Maximum days for data saving.

④ Add -Add new DB model.

⑤ Registry -Update property of DB model.

⑥ Delete - Delete selected DB model

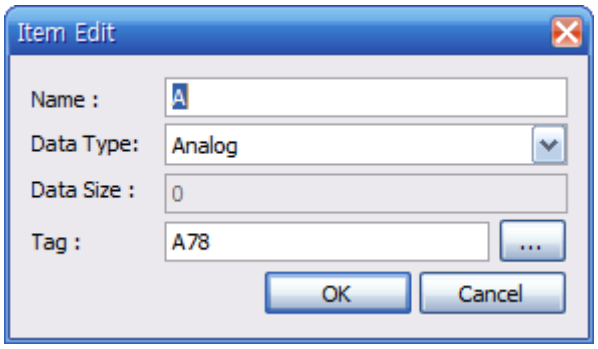
⑦ Close - Close DB Model Editor

⑧ Item Add - Add new Items in DB model.

⑨ Item Delete - Delete Item in DB model.

⑩ Item Edit - Edit selected item.

[Item Edit window]



① Name - Write Item name

② Data Type - Select Data type of Item

③ Data Size - If "String" is selected as Data Type, you can assign string data size maximum 80 letters in case of English letter.

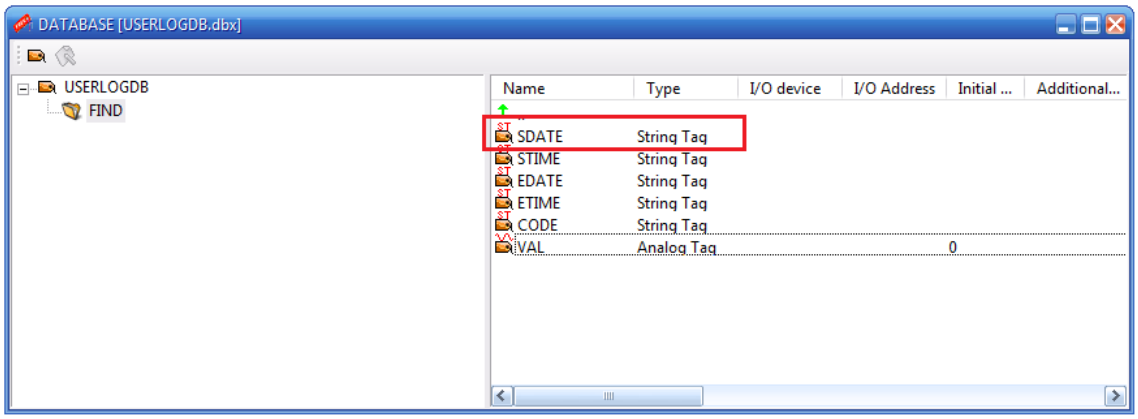
④ Tag - Select tag name which is designated to Item. Tag value is updated to this item.

2) Calendar setting

[Making Tag]

Make String tag which will receive date or time

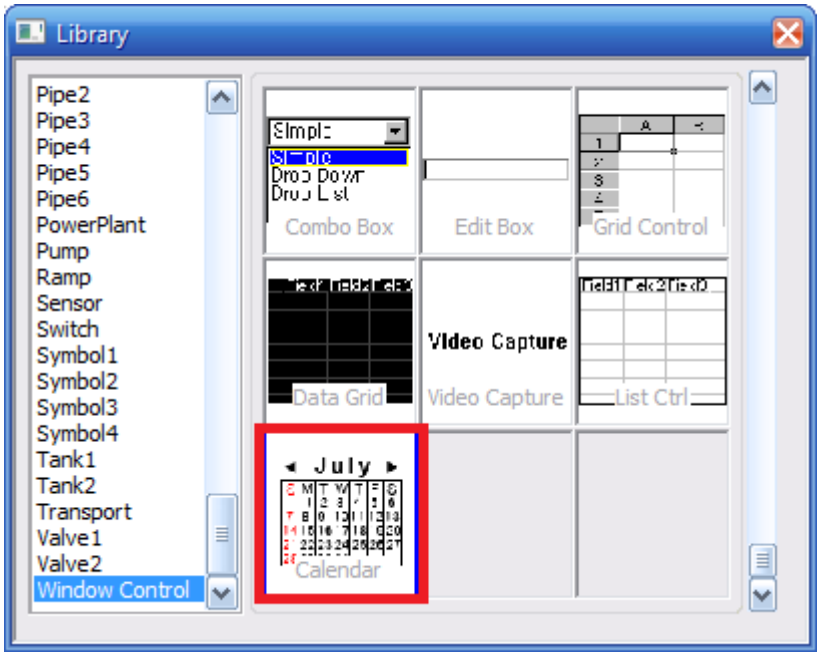
This tag must be String and virtual tag.



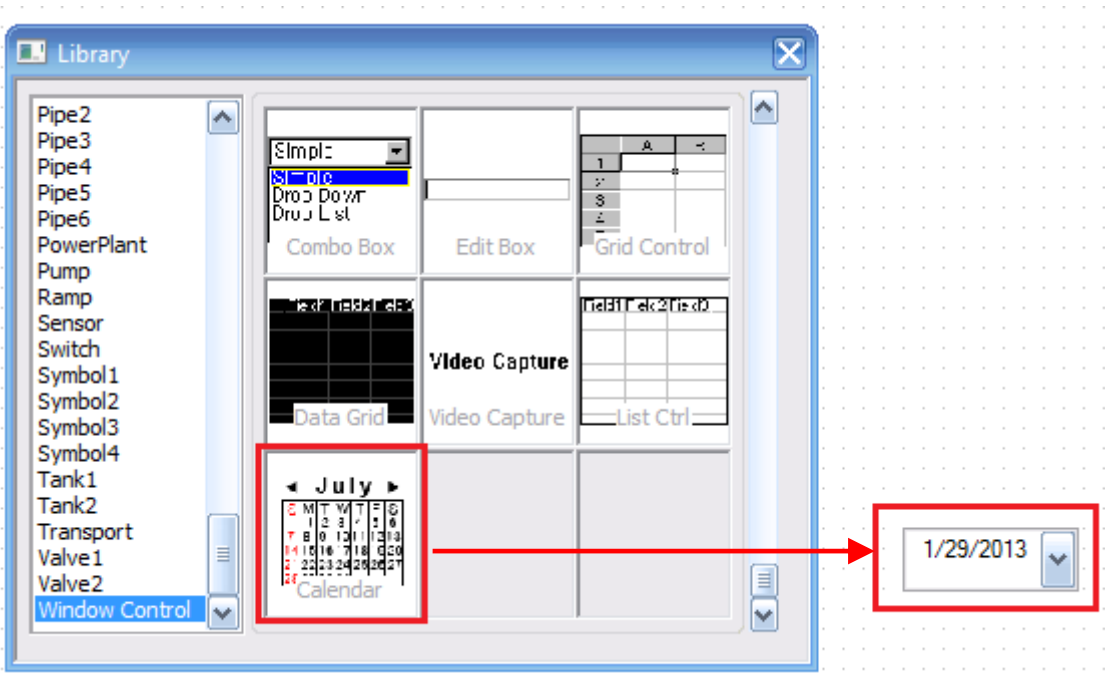
[Making Calendar on the page]

Make page and click [Draw] → [Library]

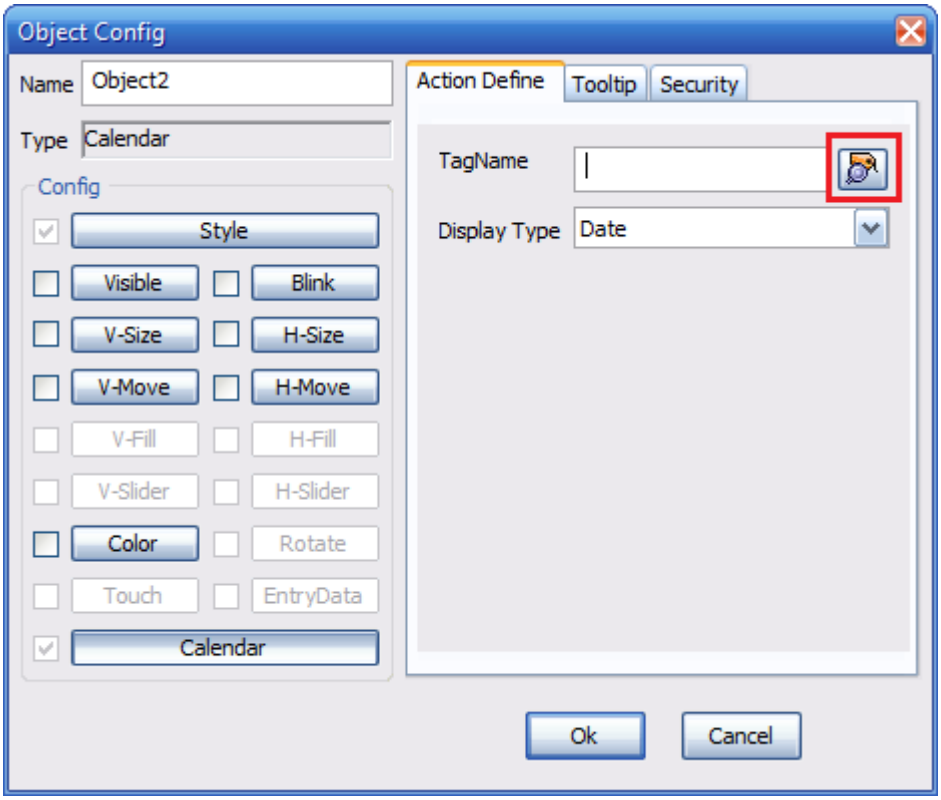
Select Window Control and click the Calendar.



Drag the Calendar to the page and double click "Calendar control"



Write the String tag name or select string tag after click "Finder"



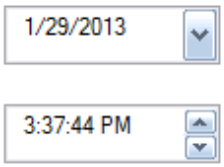
If you select "Date" at [Display Type], February 20, 2013 will be saved at tag as 20130220.

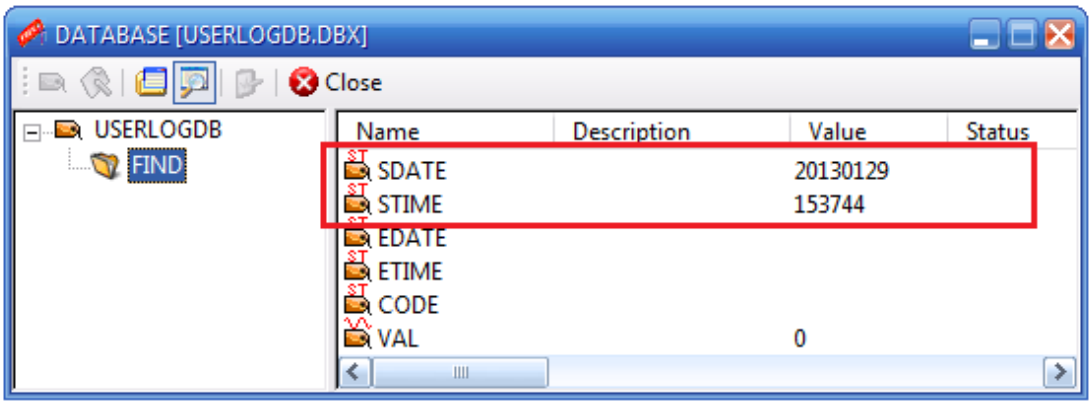
If you select "Time" at [Display Type], 1:36:27PM will be saved at tag as 133627.

[Check Calendar operation]

Run "CimonX" and click [View] → [Database].

Check the tag value when you change calendar value.



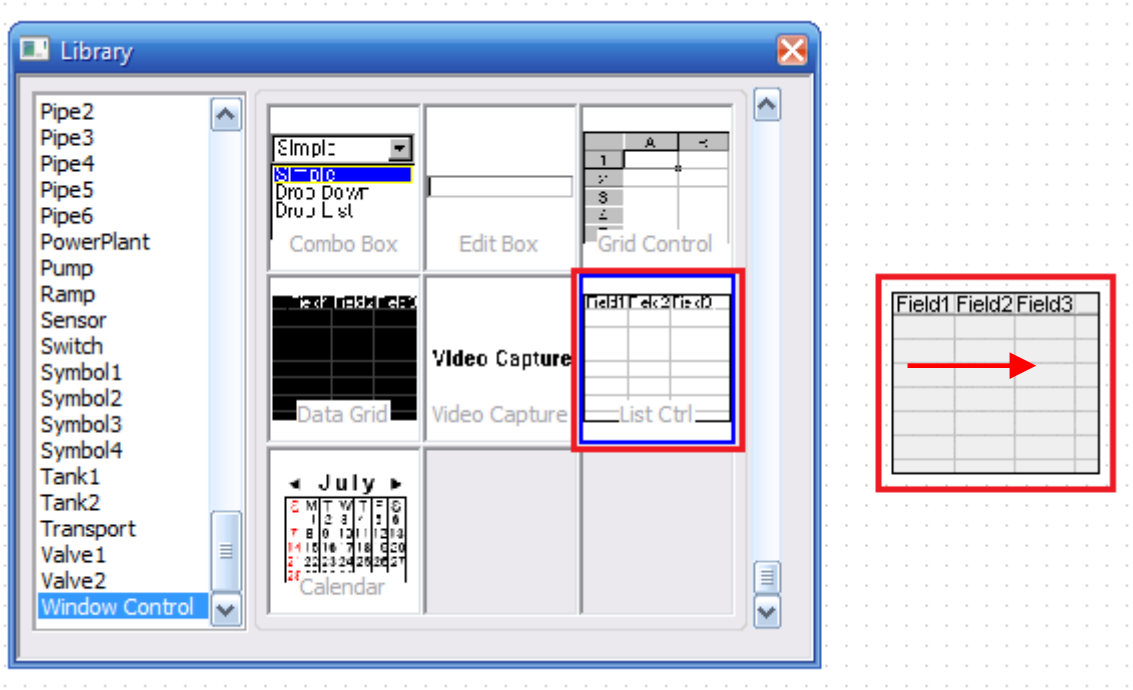


This Database shows Data and Time tag values when Calendar is changed.

3) List Control Setting

[Making List Control on the page]

Click [Draw] → [Library] → [Window Control]

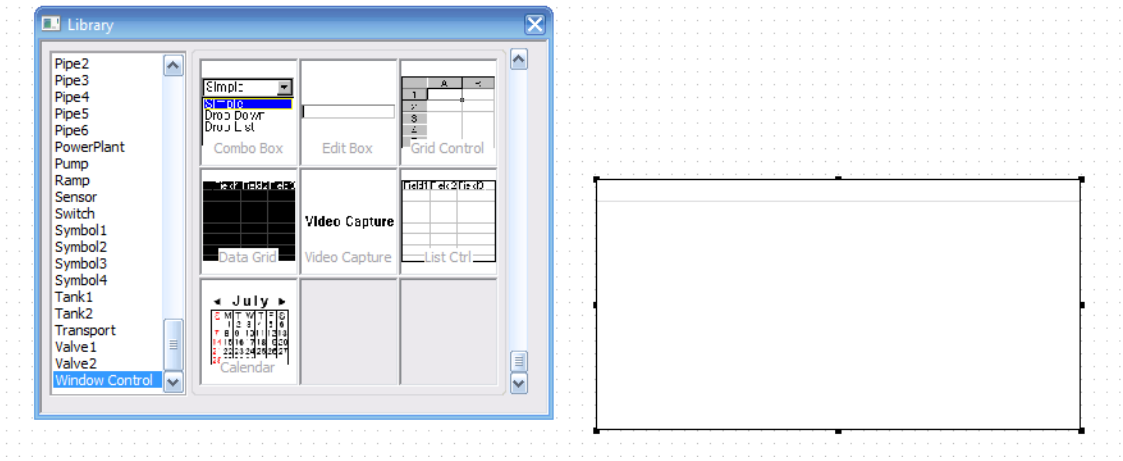


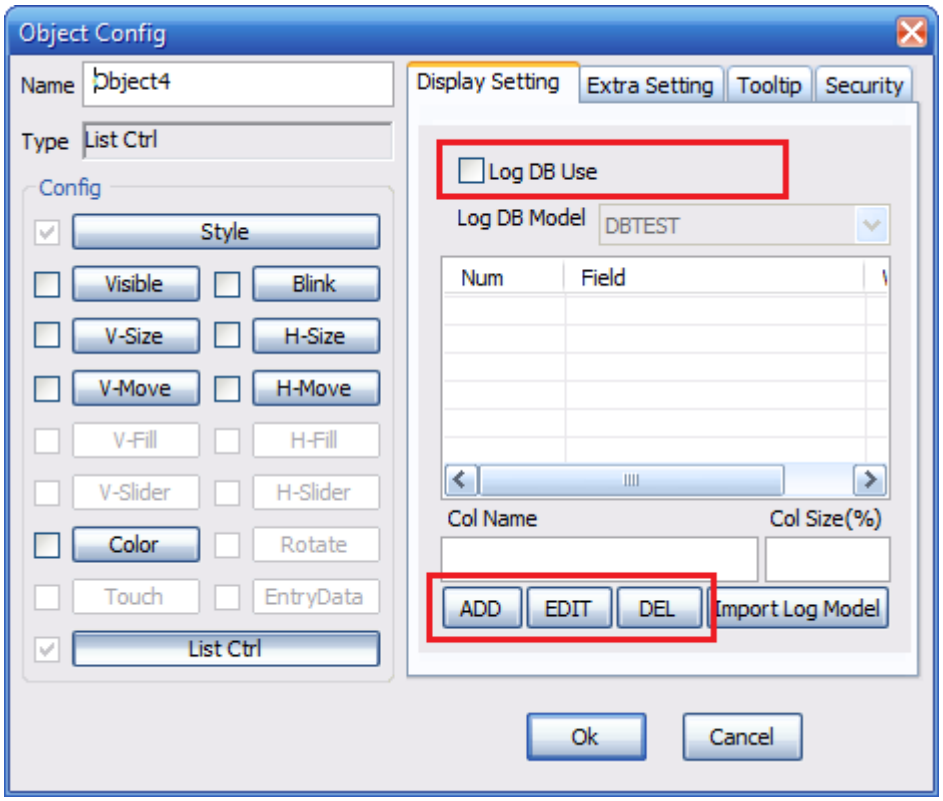
"List Control" shows Log DB value.

In order to operate Log DB, Script must be used.

[Display Setting]

Double click "List Control" on the page.





① Log DB Use - In order to make column name and size on "List Control",

do not select "Log DB Use".

In order to make column by "Import Log Model" automatically,

click "Log DB Use"

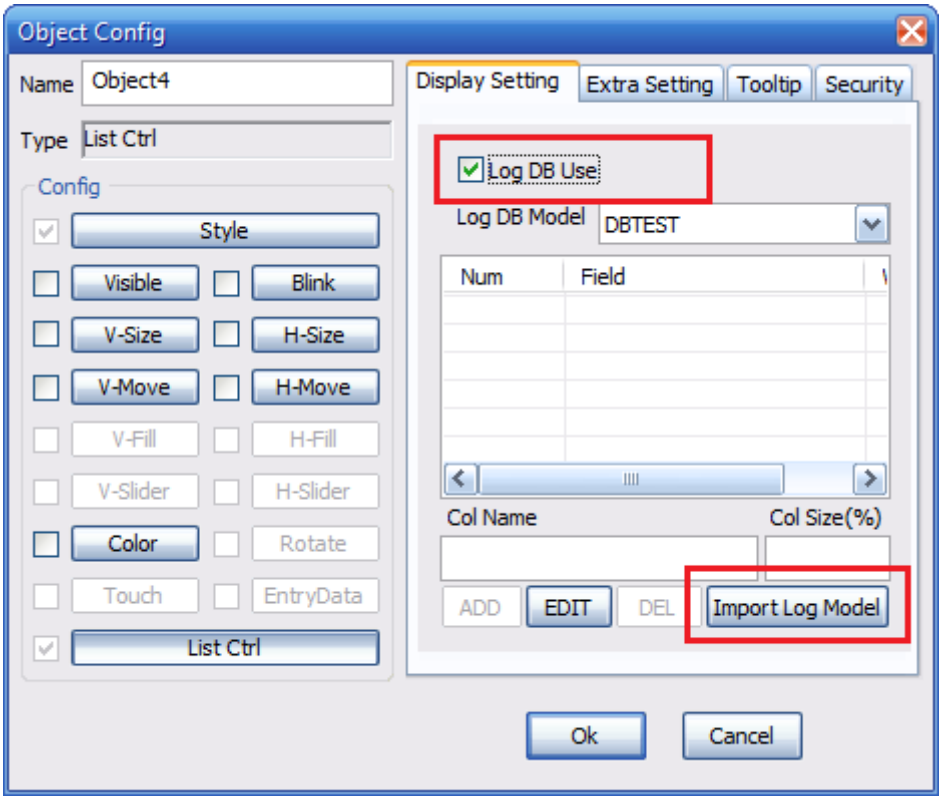
② ADD - It is used to add Column name and Column size on the "List Control"

③ EDIT - It is used to edit the added column name and size.

④ DEL - It is used to delete the added column name and size.

[Import Log Model]

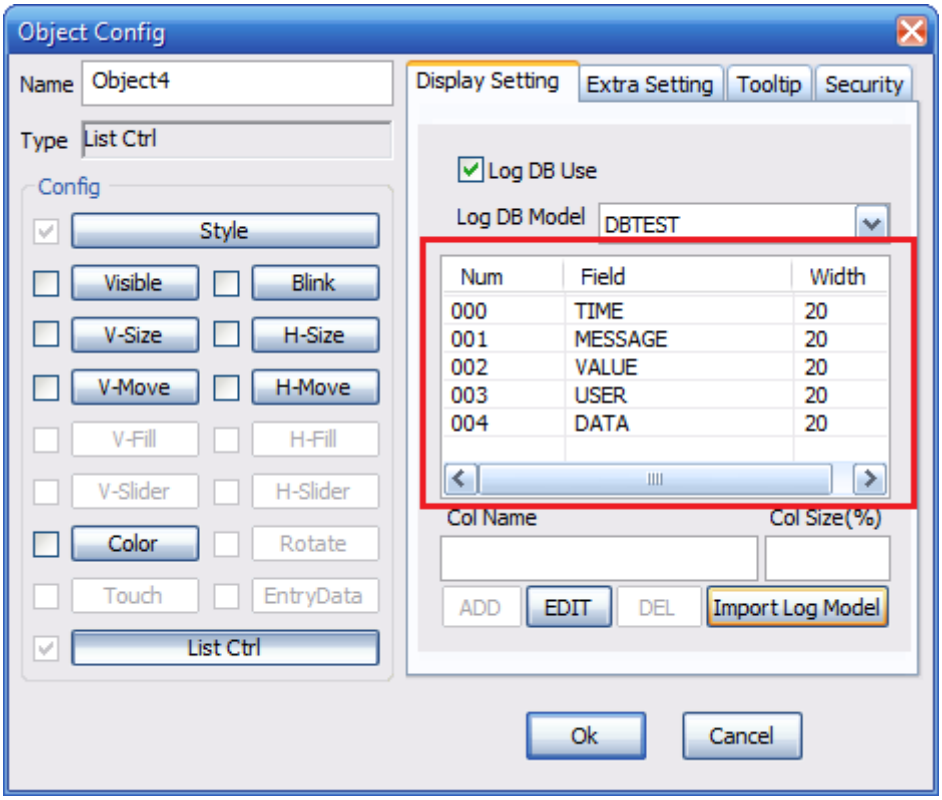
Double click "List Control" on the page.



① Log DB Use – If you already made "Log DB Model" at the first step and want to import Log Model, select "Log DB Use"

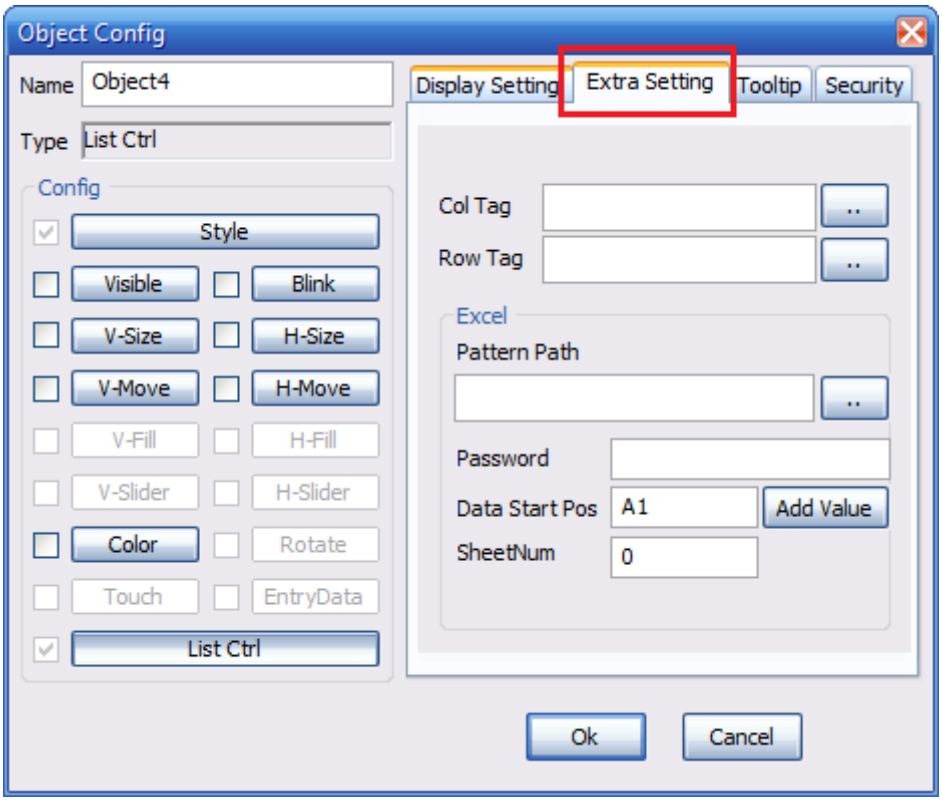
② Log DB Model – Select one of Log DB Models that you already made.

③ Import Log Model – After select DB model, click it to import log models to show on the "List Control"



After importing Log Models, you can only edit column name and size.

[Extra Setting]



① Col Tag – It is used to save column's location when you click items on the "List Control". Select Analog tag here.

② Row Tag - It is used to save row's location when you click items on the "List Control". Select Analog tag here.

③ Pattern Path –Make Excel form in folder. List Control data will be saved in this format and print out to Excel or PDF format.

④ Password - It is used to make password on Excel file.

⑤ Data Start Pos - Assign the column and row which data will be saved from this position.

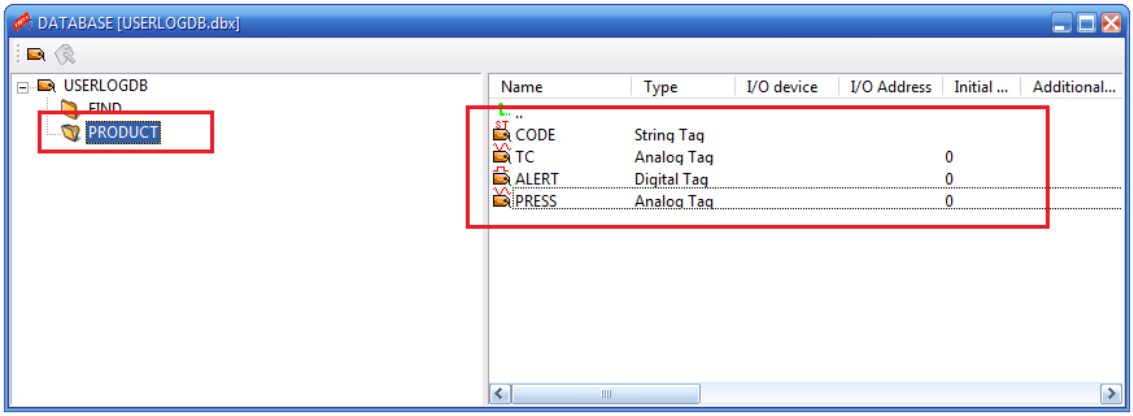
⑥ Sheet Num - Assign sheet number which data will be saved. Sheet number starts from 0.

4) Summary for Sample project

-There are Basic sample and Advanced sample projects.

-If Product (String tag) value is changed, related TC, ALERT and PRESS' value is saved.

-First of all, make tags as following picture.



Make "PRODUCT" Group and 4 virtual tags as below.

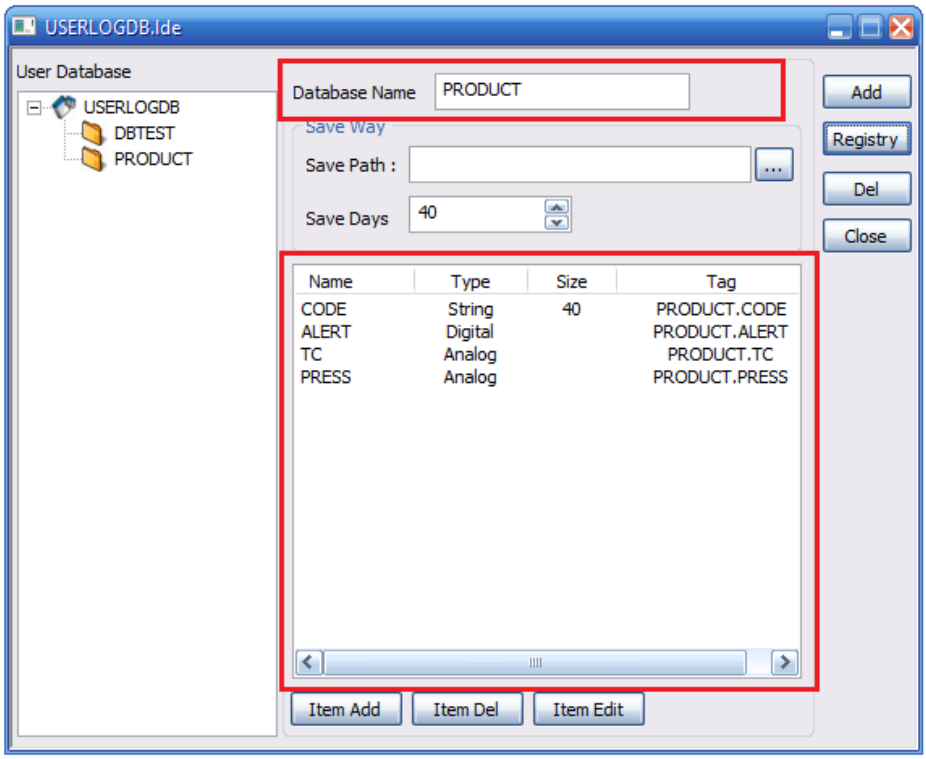
CODE - Product Code (String tag)

TC - Temperature value (Analog tag)

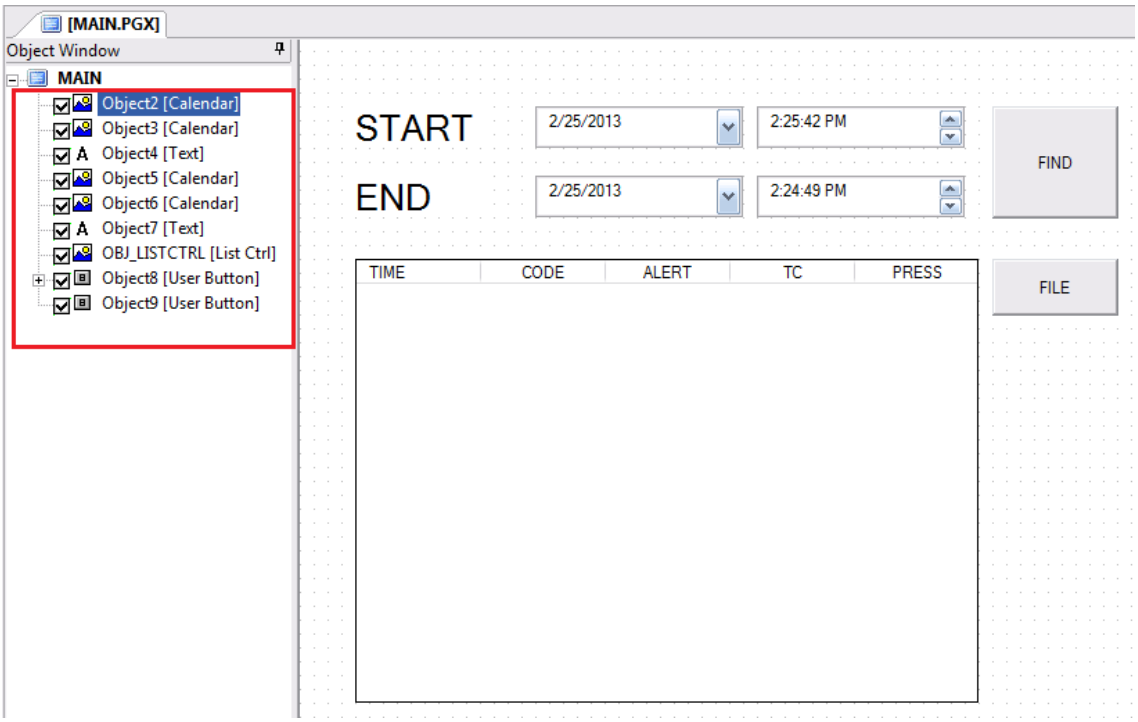
ALERT - Alarm tag (Digital tag)

PRESS - Pressure value (Analog tag)

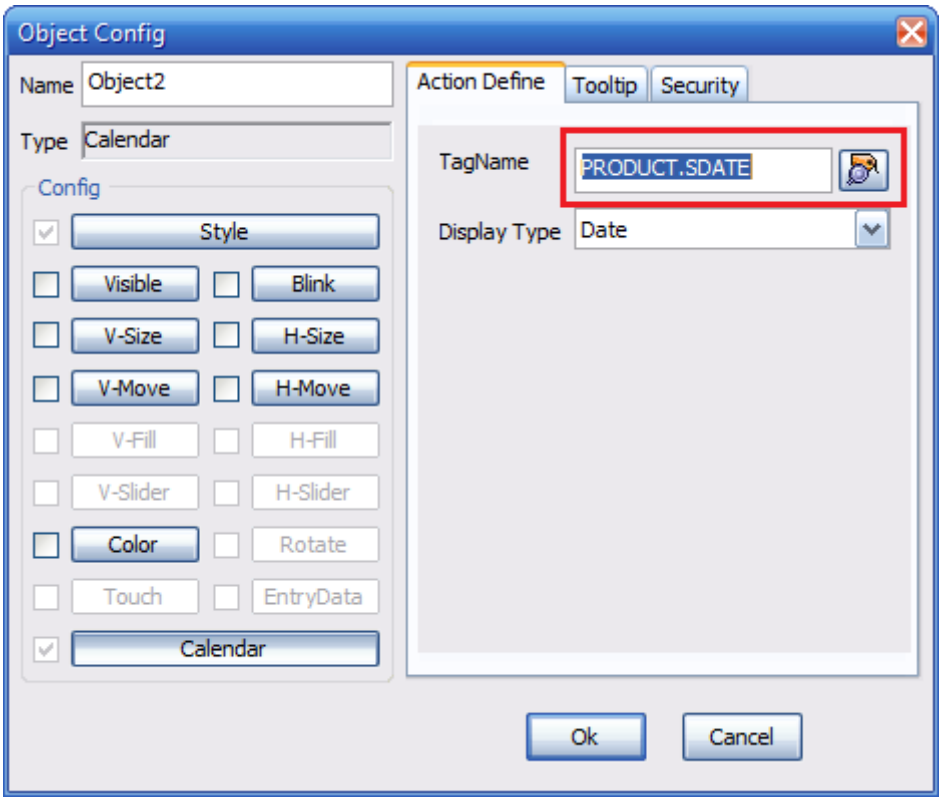
-Make Log DB Model as below.



-Make the page as below.



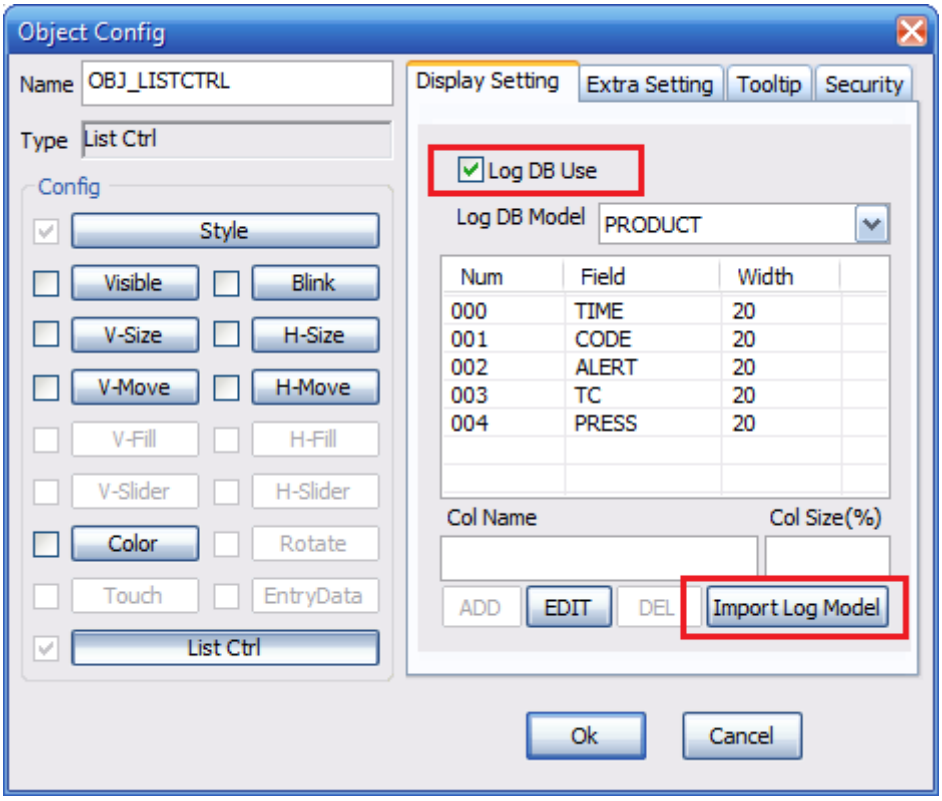
-Make 2 Calendars as Date Types and 2 Time Types as above.



Make 4 String tags as SDATE, STIME, EDATE and ETIME under PRODUCT group.

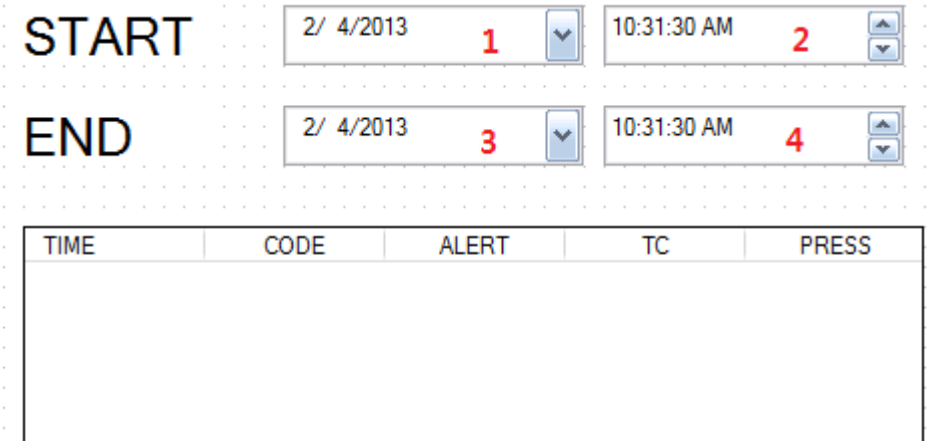
Match those tags to Calendar date and time.

-Set up "List Control" as below.



Click "Log DB Use" and select Log DB Model. After click "Import Log Model", change the Column size and then Click "EDIT".

-The final result is as below.



1. Tag name : PRODUCT.SDATE, Display Type : Date
2. Tag name : PRODUCT.STIME, Display Type : Time
3. Tag name : PRODUCT.EDATE, Display Type : Date
4. Tag name : PRODUCT.ETIME, Display Type : Time

5) Script for Basic sample

-Data Insert

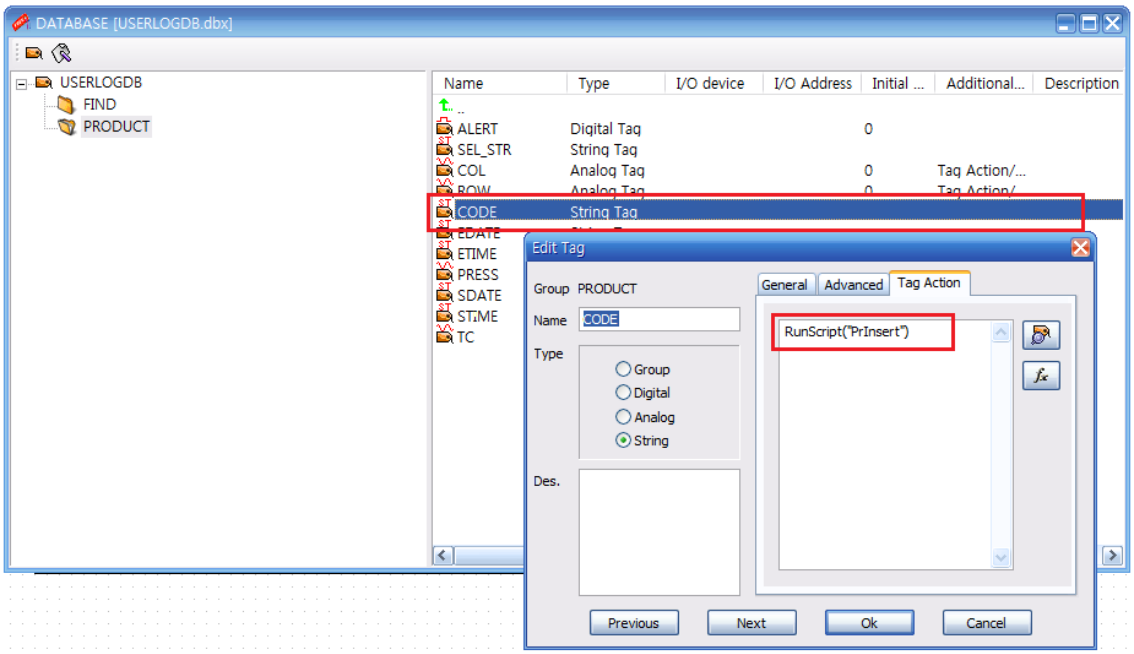
① Use DbInsert("LogDB model name") for adding data.

② Make script as below.

```
Sub PrInsert()
    Return_value = DbInsert("PRODUCT")
    'If Return_value is 0, it is success and others are fail.
End Sub
```

③ Click "Database" and select PRODUCT.CODE. Select "Run Tag Action for tag value change" in General and write below script at Tag Action.

RunScript("PrInsert")

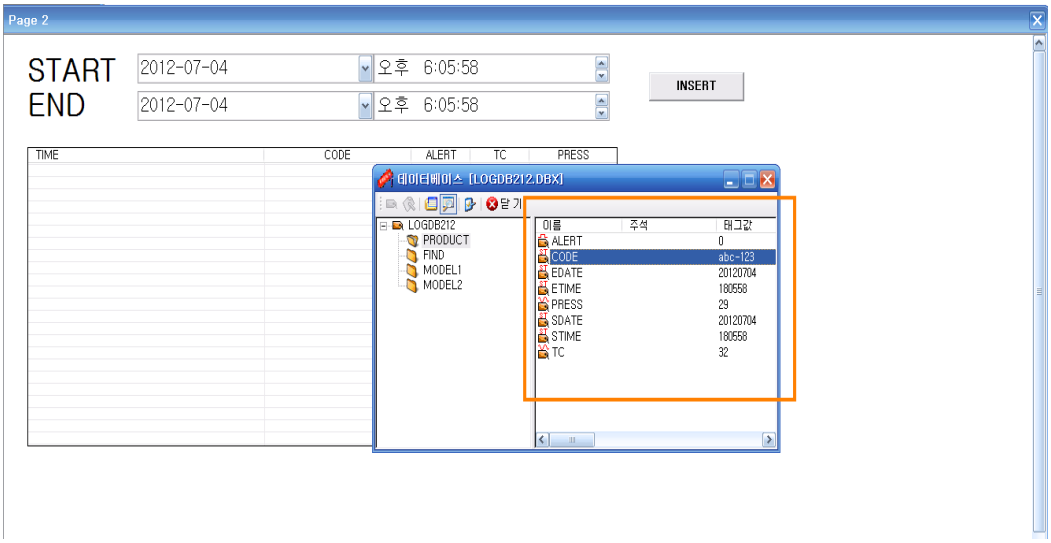


If PRODUCT.CODE is changed, tag value is save at Log DB Model.

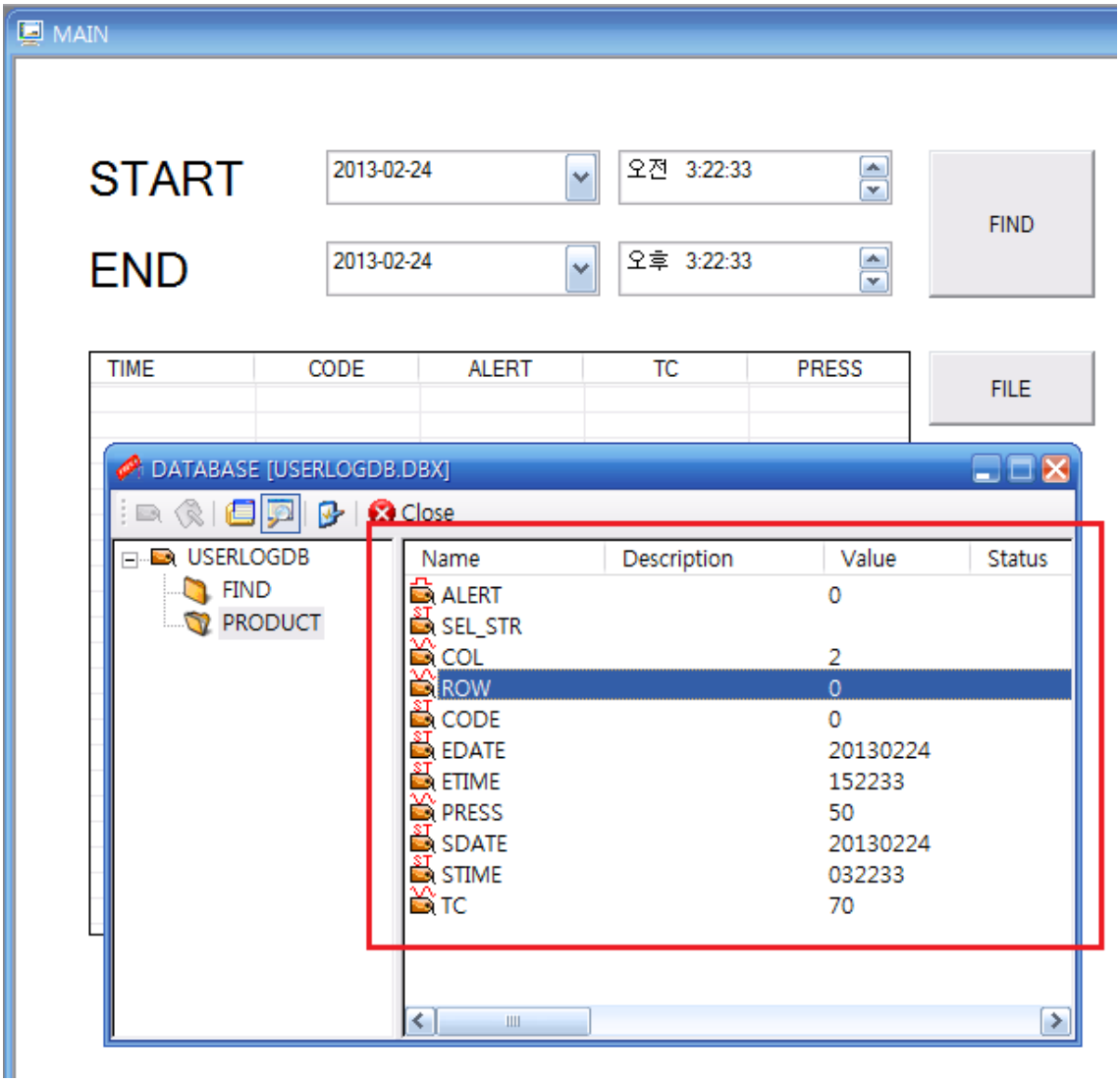
④ Run CimonX

⑤ Open Database and write value to PRODUCT.TC , PRODUCT.PRESS, PRODUCT.ALERT and then change the value of PRODUCT.CODE.

As value is changed, PrInsert runs and data is saved at Log DB.



USER LOG DB

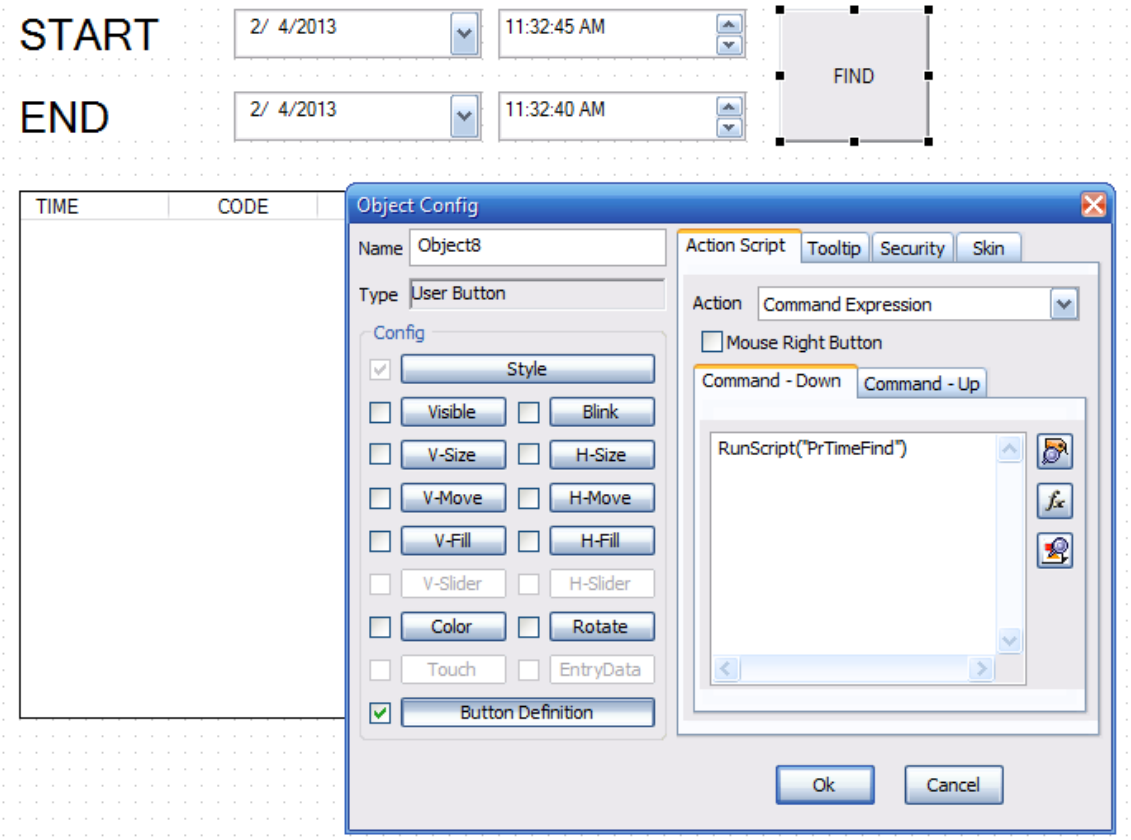

MAIN
START
2013-02-24
오전 3:22:33
END
2013-02-24
오후 3:22:33
FIND
FILE
TIME
CODE
ALERT
TC
PRESS
DATABASE [USERLOGDB.DBX]
Close
USERLOGDB
FIND
PRODUCT
Name
Description
Value
Status
ALERT 0
SEL_STR
COL 2
ROW 0
CODE 0
EDATE 20130224
ETIME 152233
PRESS 50
SDATE 20130224
STIME 032233
TC 70

-Data Finder

① Make script as below.

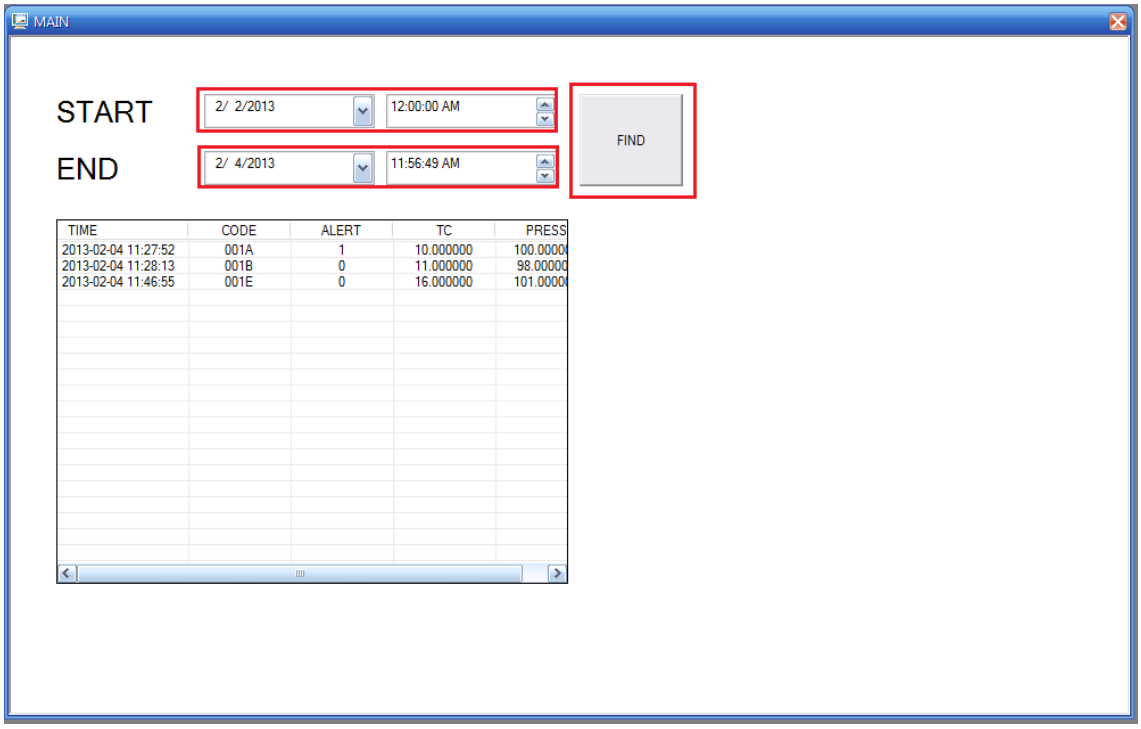
```
Sub PrTimeFind()
    sDate$ = GetTagVal ("PRODUCT.SDATE")
    sTime$ = GetTagVal ("PRODUCT.STIME")
    ' Bring the Starting date and time for Finder from tags which are related with Calendar Control.
    eDate$ = GetTagVal ("PRODUCT.EDATE")
    eTime$ = GetTagVal ("PRODUCT.ETIME")
    ' Bring the Finishing date and time for Finder from tags which are related with Calendar Control.
    DbSetFindTimeStr "PRODUCT",sDate$+sTime$,eDate$+eTime$
  ' Set up searching time at "PRODUCT" Log DB model.
    n = DbFindRun("PRODUCT")
    ' Run Finder script.
    wcGridCommand "OBJ_LISTCTRL",102,0,0
    ' OBJ_LISTCTRL is List Control we made before and 102 is command to print out the result of Log DB model.

End Sub
```

Make "FIND" button and write script as below.



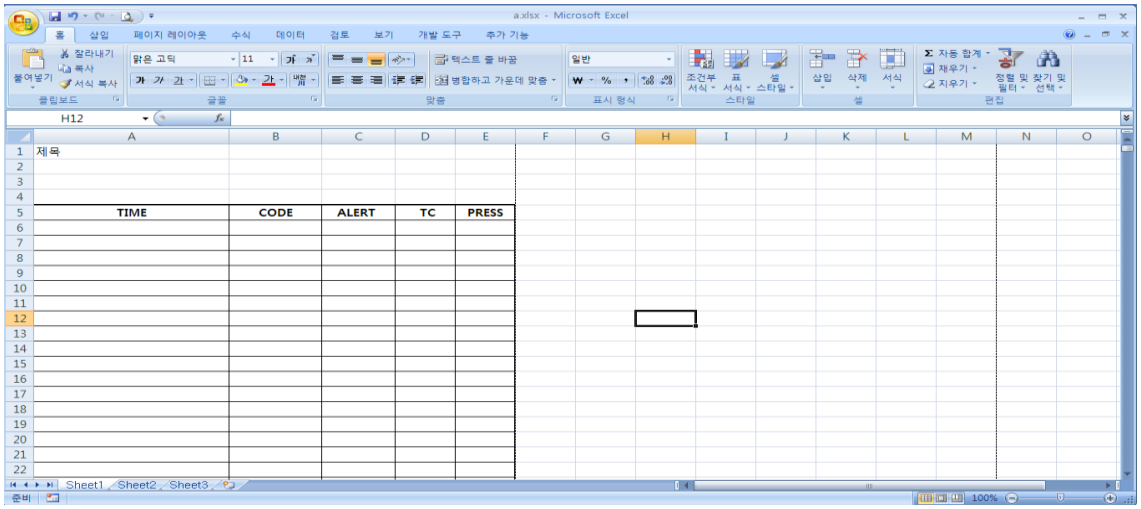
Script is RunScript("PrTimeFind")

② Run CimonX and set up the date and time and then click "FIND"

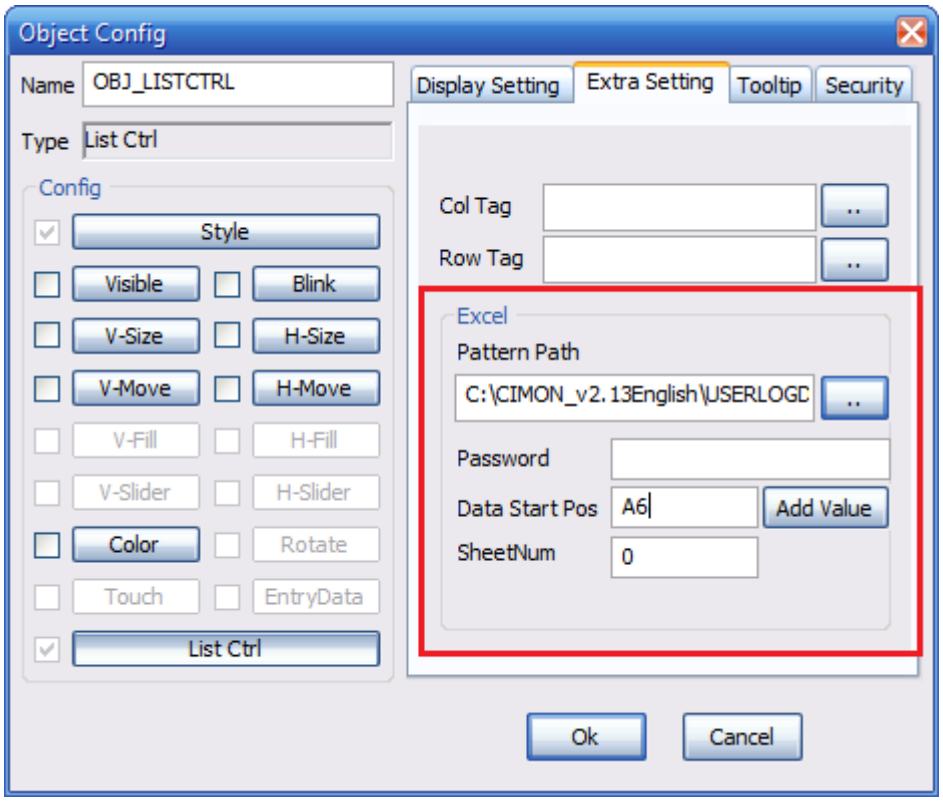


-Data Print

① Make Excel file and below and save it in folder.



② Double click "List Control" in CimonD.

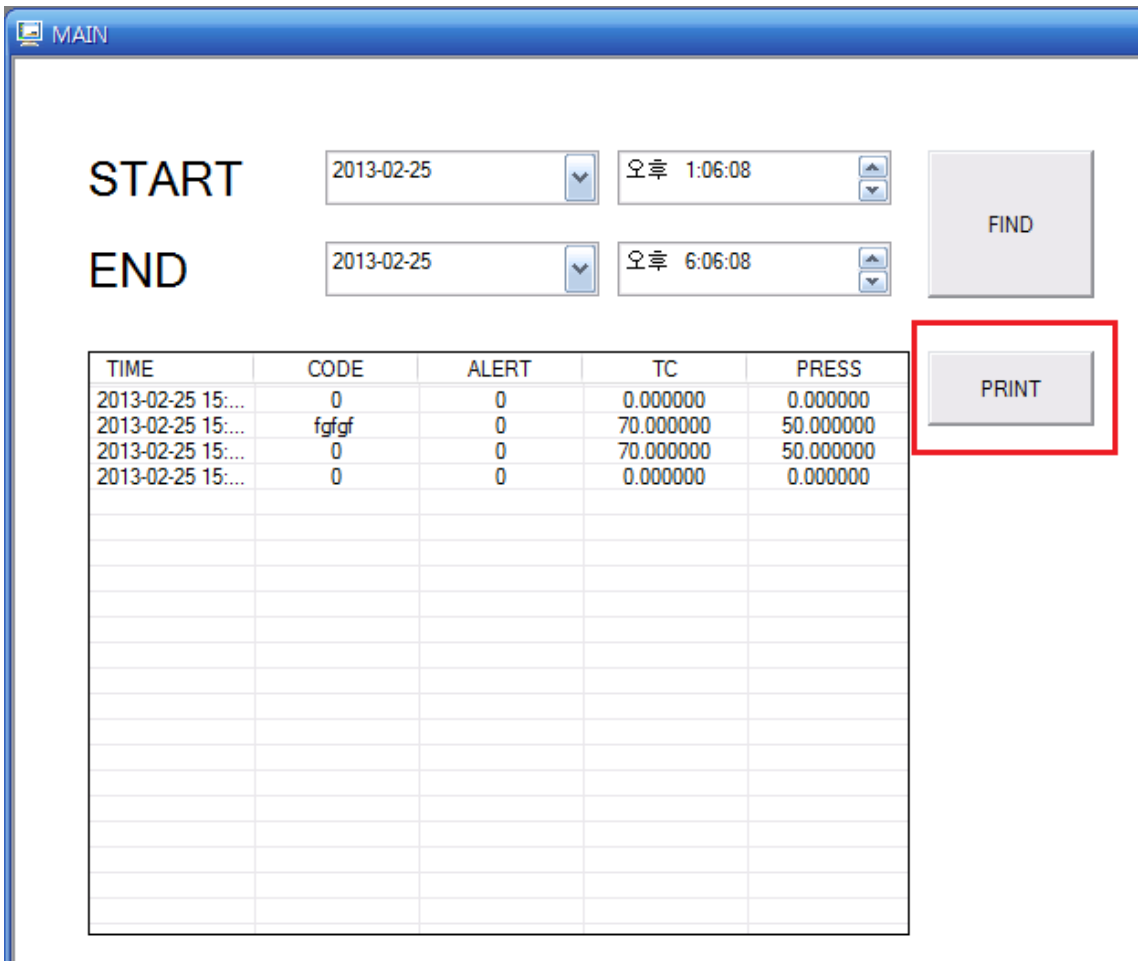


③ Make script as below.

```
Sub PrOutput()


    wcSaveList "OBJ_KISTCTRL","D:₩Z-Excel₩a.csv"

    ' Print out OBJ_LISTCTRL data to pattern Path as file.

    wcSaveList " OBJ_KISTCTRL ","D:₩Z-Excel₩a.xlsx"

    ' Copy Excel form and print out as Excel file.

    wcSaveList " OBJ_KISTCTRL ","D:₩Z-Excel₩a.pdf"

    ' Copy Excel form and print out as PDF file.


End Sub
```

④ In order to run script, make a button and write RunScript("PrOutput") as Command.

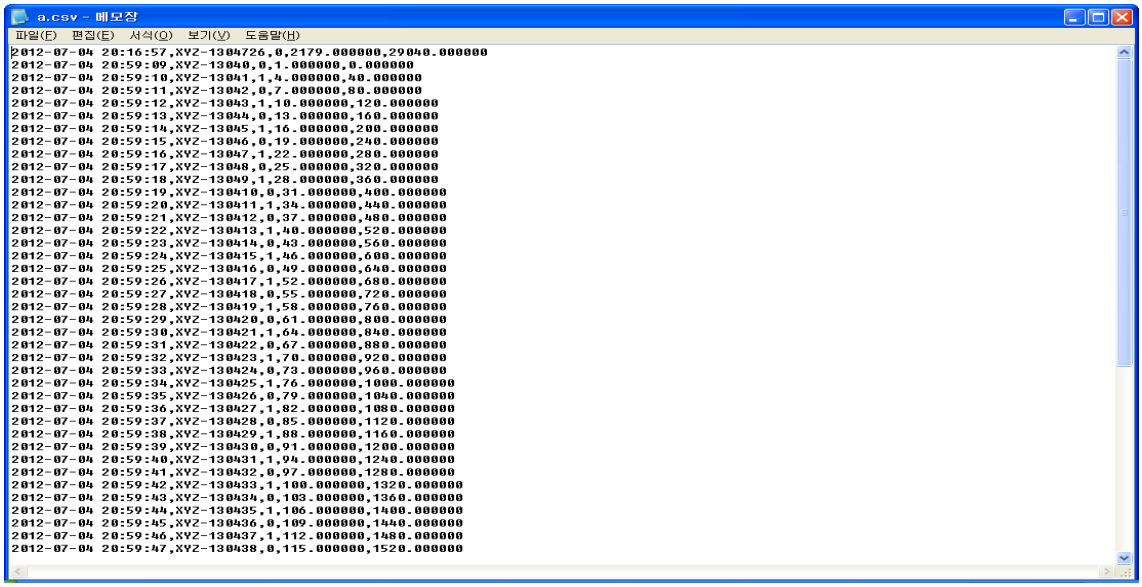
⑤ After Click FIND, click FILE to print out.



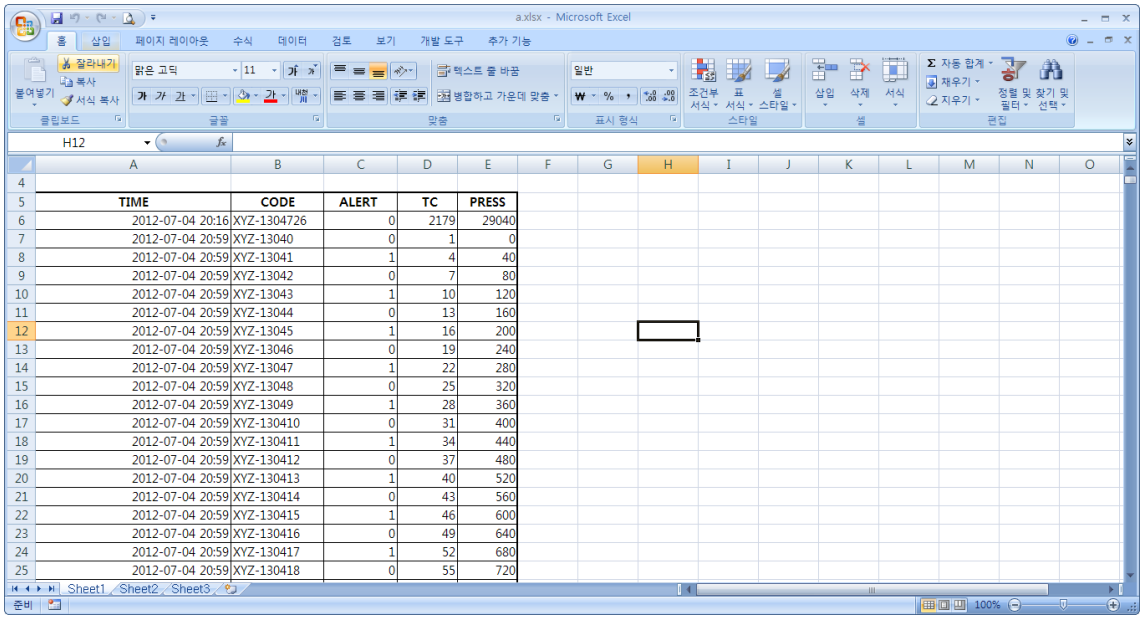
⑥ If you check Pattern path folder, you can find out excel or PDF file that you assigned.

USER LOG DB

<CSV file format>

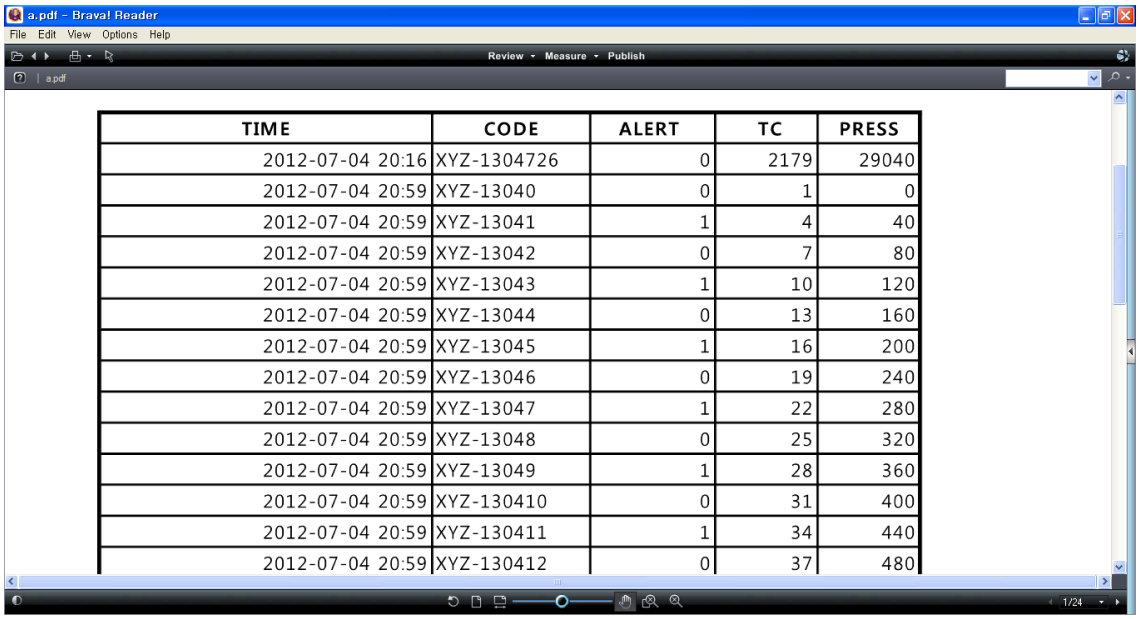


<Excel format>



	A	B	C	D	E
4					
5	TIME	CODE	ALERT	TC	PRESS
6	2012-07-04 20:16	XYZ-1304726	0	2179	29040
7	2012-07-04 20:59	XYZ-13040	0	1	0
8	2012-07-04 20:59	XYZ-13041	1	4	40
9	2012-07-04 20:59	XYZ-13042	0	7	80
10	2012-07-04 20:59	XYZ-13043	1	10	120
11	2012-07-04 20:59	XYZ-13044	0	13	160
12	2012-07-04 20:59	XYZ-13045	1	16	200
13	2012-07-04 20:59	XYZ-13046	0	19	240
14	2012-07-04 20:59	XYZ-13047	1	22	280
15	2012-07-04 20:59	XYZ-13048	0	25	320
16	2012-07-04 20:59	XYZ-13049	1	28	360
17	2012-07-04 20:59	XYZ-130410	0	31	400
18	2012-07-04 20:59	XYZ-130411	1	34	440
19	2012-07-04 20:59	XYZ-130412	0	37	480
20	2012-07-04 20:59	XYZ-130413	1	40	520
21	2012-07-04 20:59	XYZ-130414	0	43	560
22	2012-07-04 20:59	XYZ-130415	1	46	600
23	2012-07-04 20:59	XYZ-130416	0	49	640
24	2012-07-04 20:59	XYZ-130417	1	52	680
25	2012-07-04 20:59	XYZ-130418	0	55	720

<PDF format>

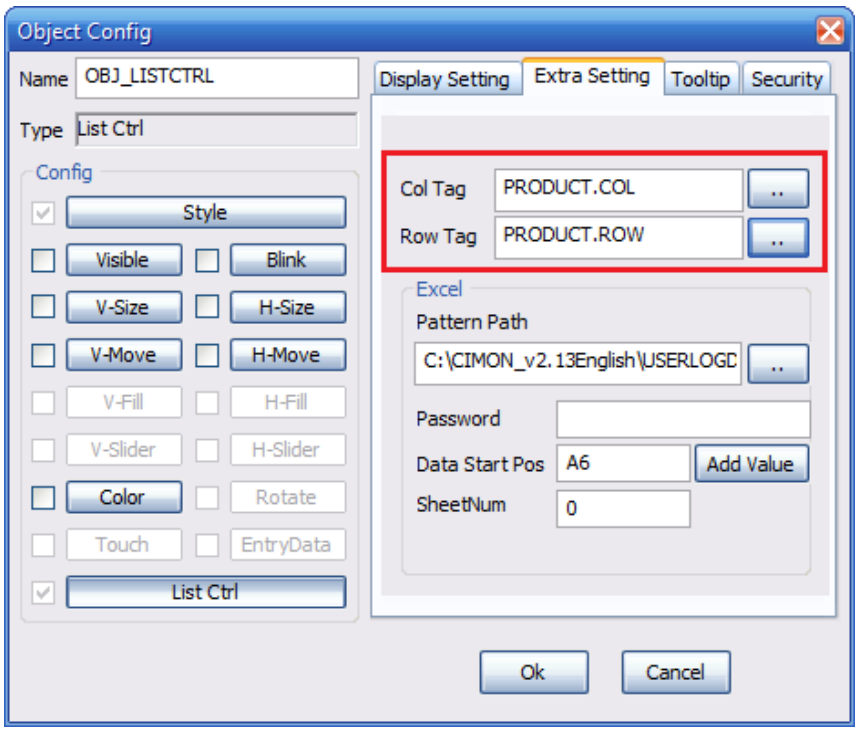


TIME	CODE	ALERT	TC	PRESS
2012-07-04 20:16	XYZ-1304726	0	2179	29040
2012-07-04 20:59	XYZ-13040	0	1	0
2012-07-04 20:59	XYZ-13041	1	4	40
2012-07-04 20:59	XYZ-13042	0	7	80
2012-07-04 20:59	XYZ-13043	1	10	120
2012-07-04 20:59	XYZ-13044	0	13	160
2012-07-04 20:59	XYZ-13045	1	16	200
2012-07-04 20:59	XYZ-13046	0	19	240
2012-07-04 20:59	XYZ-13047	1	22	280
2012-07-04 20:59	XYZ-13048	0	25	320
2012-07-04 20:59	XYZ-13049	1	28	360
2012-07-04 20:59	XYZ-130410	0	31	400
2012-07-04 20:59	XYZ-130411	1	34	440
2012-07-04 20:59	XYZ-130412	0	37	480

-List Control Event

① Make two Analog tags (COL and ROW) in PRODUCT Group.

② Double click List Control in CimonD and select Col Tag and Row Tag as below.



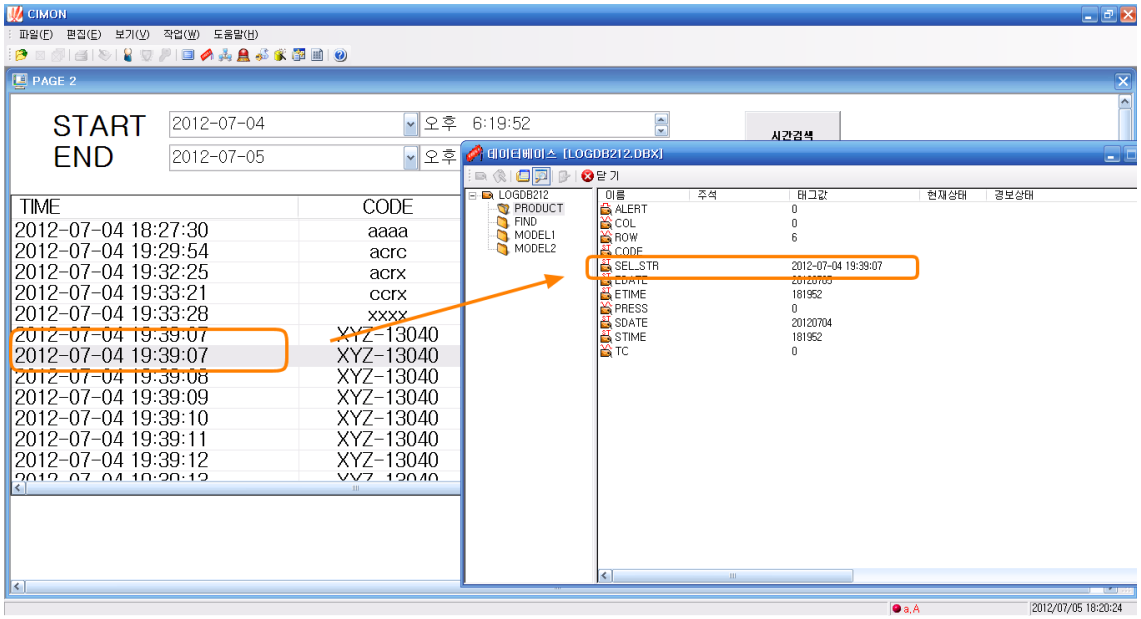
③ Make String Tag(SEL_STR) in PRODUCK Group.

④ Make the script as below.

```
Sub PrListChange()


    nRow = GetTagVal("PRODUCT.ROW")
    ' Read row position of List Control.
    nCol = GetTagVal("PRODUCT.COL")
    ' Read column position of List Control.
    strData$ = wcGridGetData("그림 3", nCol, nRow)
    ' Read data value from row and column.
    SetTagVal "PRODUCT.SEL_STR", strData$
    ' Write data value to tag.


End Sub
```

⑤ As row and column are changed, RunScript(“PrListChange”) runs automatically.

⑥ If you click different rows and columns after running CimonX, the tag value of PRODUCT.SEL_STR is changing.


CIMON
파일(F) 편집(E) 보기(V) 작업(W) 도움말(H)
PAGE 2
START
END
2012-07-04
오후 6:19:52
2012-07-05
오후
시간검색
TIME
CODE
2012-07-04 18:27:30 aaaa
2012-07-04 19:29:54 acrc
2012-07-04 19:32:25 acrx
2012-07-04 19:33:21 ccrx
2012-07-04 19:33:28 xxxx
2012-07-04 19:39:07 XYZ-13040
2012-07-04 19:39:07 XYZ-13040
2012-07-04 19:39:08 XYZ-13040
2012-07-04 19:39:09 XYZ-13040
2012-07-04 19:39:10 XYZ-13040
2012-07-04 19:39:11 XYZ-13040
2012-07-04 19:39:12 XYZ-13040
데이터베이스 [LOGDB212.DBX]
닫 기
LOGDB212
PRODUCT
FIND
MODEL1
MODEL2
이름 주석 태그값 현재상태 경보상태
ALERT 0
COL 0
ROW 6
CODE
SEL_STR 2012-07-04 19:39:07
ETIME 181952
PRESS 0
SDATE 20120704
STIME 181952
TC 0
a,A
2012/07/05 18:20:24