GSS User Manual (v1.2.605)

I. Preparing GSS

1. Copy gss.exe to any directory you want
2. You have one of sqlserver supported by zeoslib:
   Oracle, PostgreSQL, MySQL, Firebird, Interbase, mssql, sqllite, sybase
3. If you use PostgreSQL or MySQL, copy all appropriate files in \lib directory to system directory (Ex. \winnt\system32\ or \windows\system\ )
4. You have any table in your database to access

II. 15 Minutes Tutorial

1. Execute GSS.exe
2. 'Choose project' window will appear.
   - Click new
   - Fill name of your new project
   - Specify home directory, we can leave it blank, this mean that we want to put the project directory same as GSS.exe
   - If we want to load this new project when gss.exe running, set this project as default.
   - Select the project in yellow list-box and click 'Ok' button
3. Blank window will appear
4. Click Heart button at left-top window to go to Project Properties, this button will unavailable when project is locked.
   Hotkey: ^F9
5. Go to 'Data Connection' tab to setup database connection
   Fill the Hostname, protocol, database, username, and password for your database server, and then click 'Test Connection', if you fill correct data then 'Succeed' message will display.
6. Go to 'Menu Structure' tab to Define Menu Structure
   - Click 'Add brother'
   - Set Caption : 'Master' <press enter>
   - Click 'Add Child'
   - Set Caption : Order List <or any appropriate table name you have>
     Set SQL File : Order List.gsf (See GSF Editor Section Below)
   - Big Icon : <fill 32x32 bmp file name or use (…) button to explore>
   - Small Icon : * <or fill 16x16 bmp file>

   Note: Please don't put GSF file on root menu.

GSF Editor
1. Click button to go to GSF Editor
2. In 'window' tab
   Form Name : FrmOrderList

Check list : ☑ Sizeable ☑ Escape ☑ MDI Child ☑ Maximized

3. Go to 'Data' tab
   Main Table : Orders <Physical table name in your database>
   Key : OrderID
   Alias : o
   Request Live : True
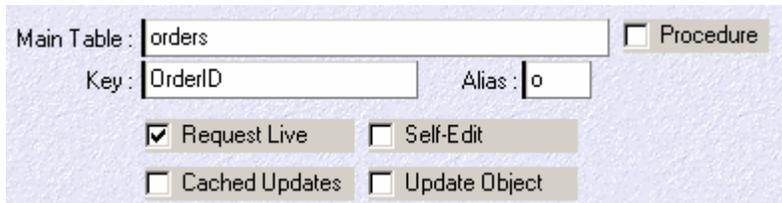
Main Table : orders   ☐ Procedure
        Key : OrderID   Alias : o

        ☑ Request Live   ☐ Self-Edit
        ☐ Cached Updates ☐ Update Object

4. Go to 'SQL' tab

   - Click 'wizard' button
   - Click 'Ok'
   - Select query created

```
SELECT
    o.OrderID        {cap="Order ID";w="10";buttons=(autonumber(select
    o.CustomerID     {cap="ID<Customer>";w="10";buttons=(lookup(Custom
    c.CompanyName as Customer {cap="Name<Customer>";w="40";buttons=(det
    o.EmployeeID     {cap="ID<Employee>";w="10";buttons=(detail(Employ
    o.OrderDate      {cap="Order Date";w="10";buttons=(cal);def="DATE"
    o.RequiredDate   {cap="Required Date";w="10";buttons=(cal);font={M
    o.ShippedDate    {cap="Shipped Date";w="10";buttons=(cal);font={MS
    o.ShipVia        {cap="Ship Via";w="10/30";editor=radio;h="/3";col
    o.Freight        {cap="Freight";w="10";},
    o.ShipName       {cap="Ship Name";w="40";},
    o.ShipAddress    {cap="Ship Address";w="40";},
    o.ShipCity       {cap="Ship City";w="30";},
    o.ShipRegion     {cap="Ship Region";w="30";},
    o.ShipPostalCode {cap="Ship Postal Code";w="20";},
```

Note: Brackets '{}' at a line is identifier for a field and contain field properties, if this line double-clicked then Field Properties Editor will appear but when Free-Edit activated we can type directly to editor to change as necessary.

- A field properties can edit by double-click a field, field properties editor is shown below.

- For now leave it by default
- We can use Free edit, to edit field properties manually or to add join table or any SQL filter.

Note: If you joined 2 tables or more, to get data grid editable, 'Update Object' property in data-tab in GSF editor must set to true.

Then Click 'Save' in GSF Editor
Then Click 'Ok' in Project Properties

Now The Main Window have new Button like this :

Now we can browse Order table, Order list button can click to browse, to insert, to edit, to delete or to filter data.
Here is the result:

We can sort (descending/ascending) on any field by click on grid-title and we can filter the sorted field.

And then we can go to Edit or Insert window:

We can change this editor layout from : 1) edit-tab in GSF editor window, 2) fields properties, 3) field rule, 4) or we can switch this window to design mode by click button.

When the window in design-mode, the label, field control, or button can resize or move.

Beside that, we can add new shape, text, or image, to do this click button one more time, and we will see designer menu :
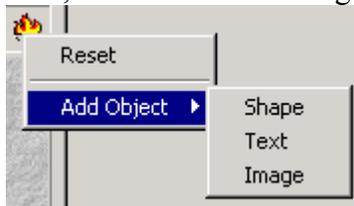
To add a Object, click on menu (Shape/Text/Image) and then use the mouse to specify coordinate (left, top, right, bottom) and then fill the object properties.

Press enter or escape to finish designer mode.

Also we can click this button (Order List) to go to GSF Editor by press and hold Ctrl Key down then click the button, as long as the GSF file not locked this GSF file properties is editable.

To add Print Button you can do by set 'Report File' with a report file name you want, for example :
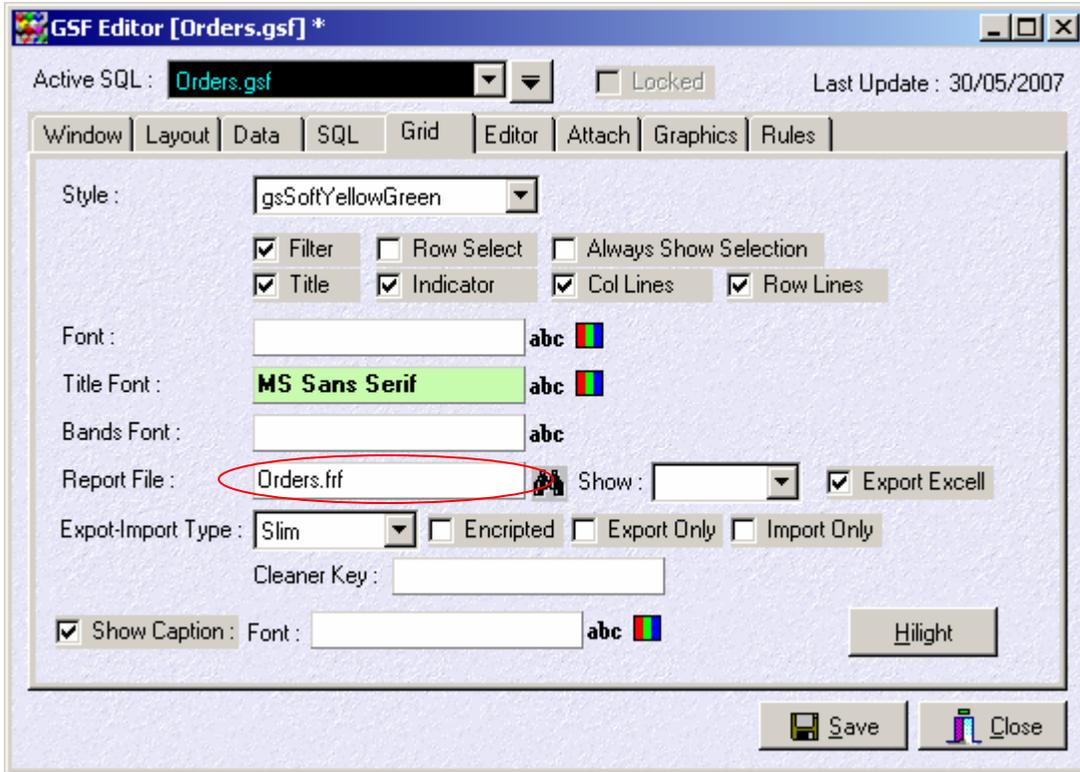
An then when 'Order List" button clicked in Main Window, print button will appear.
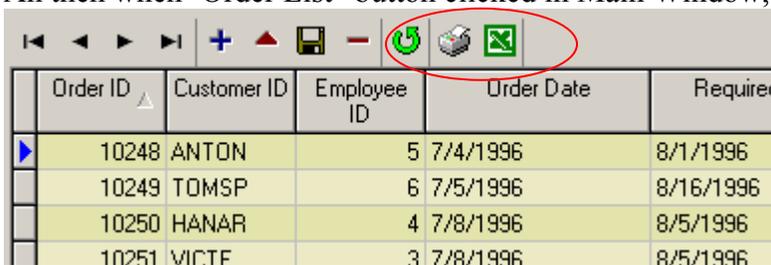
Press and hold down shift key then click print button to go to Report Designer.

Click 'Insert DB Fields'

Select fields you want to print, and set include bands true and then click 'Ok'.
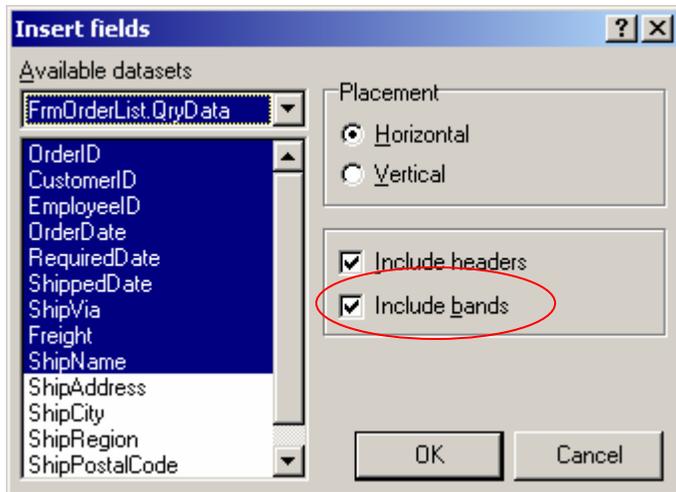
We can put any additional text or setup report layout before save button click to finish.
Now print button will available.

Note: One dataset can have more then 1 report file, just put additional name with '#'
        char as separator. For example : if the default report name is Order List.frf so the
        additional report can be named: Order List#Simple.frf or Order List#Other.frf

III. More Explanation

Directory Structure

To know how directory structure works, see GSS.ini and related directory.
We can put GSP or home directory in server, so every time we update the project, each
client will get up-to-date project. To reload project at client computer go to system menu
in main window.

A. Project Properties
   - General
        Title : This will be set caption on main window
        Icon File : To change application icon (*.ico)
        Main Wall Paper : To set wallpaper on MDI form or main window (*.bmp), when
              wall-paper changed application need exit to load wallpaper.
        Top Panel Wall : To Change upper panel wallpaper (*.bmp)
        Outlook Wall : To Change Outlook menu wallpaper (*.bmp)
        Def. Editor Wall : To generalize wall paper on editor window, so assigned
              wallpaper to each editor window is not necessary.
        MDI : Set main window to MDI support.
        Maximized : Initialize main window state to maximize.
        Resizeable : Main window can resize
        Left : Put main window position at this value
        Top : Put main window y position at this value
        Width : Reset main window width

Height : Reset main window height

Outlook Button : Open default outlook button when project open.

Short Date Format : Change appearance of date

Help File : Specify help file (*.hlp)

Global SQL : Global data to open while project active

Environment SQL : SQL will open while project active and this dataset will be a default master of GSF file to open on main-menu defined in 'Menu Structure' tab.

Display Env. Field : A field of Environment SQL to show on main window.

Splash Image : The image shown at first time when project loaded.

Welcome SQL : The GSF file to open at first time when project loaded. We must provide a green.bmp or green.jpg in \images directory, it's will load into welcome window.

Bevel Width : Bevel width to show splash-image.

Lock Project : Prevent project from editing.

- Menu Structure

Add Brother : To add item at same level with current selection.

Add Child : To add item as child of selected item.

Delete Node : Delete selected item.

Up ⬆ : Move item up

Down ⬇ : Move item down

Caption : To show as menu item or button caption

Hint : Additional information for current menu item

SQL File : GSF file to open when menu item click.

Big Icon : 32x32 bmp file

Small Icon : 16x16 bmp file or set '*' to get image from Big con

Manual Tag : (not use)

Create Short-Cut : to put button on top panel in main-window, so use can click easily.

Startup : To open the menu automatically when application up.

Visible : To grant the menu visibility to any user-group.

Enabled : To set enabled to any user-group.

Full Access : To grant insert, edit, and delete data to any user-group.

- Data Connection

Host Name : computer or or ip address sql server

Protocol : supported protocol with ZeosLib651
    (ado, firebird-1.0, firebird-1.5, interbase-5, interbase-6, mssql, mysql, mysql-3.20, mysql-3.23, mysql-4.0, mysql-4.1, oracle, oracle-9i, postgresql, postgresql-7.3, postgresql-7.4, postgresql-8.x, sqlite, sqlite-2.8, Sybase)

Database : Existing database name in sql server to access.

User Name : user name to use (if you leave this blank, user name/password dialog box will appear when GSS trying to connect to server)

Password : The user names password.

Test Connection : To test server connectivity, username and password is required.

History Table Access : History table button will appear to some user-levels.

- Users
  Enabled : To activate user management.
  Activate Standard Table : To activate standard user table in sql server, users table
  must created with this structure:

  ```
  CREATE TABLE users (
     uname char(30) NOT NULL,
     uid char(4) NOT NULL,
     ulevel char(10),
     ugroup char(10),
     ro char(2),
     passwd char(10),
     envfilter varchar(50),
    PRIMARY KEY( uname )
  )
  ```

  To edit this table there is standard user.gsf available do download or you can
  create your own, put user.gsf in project home directory.

   : User-groups privilege to access users manager menu.

  User Name : User full name
  User ID : user id
  Lavel : Specify user level
  Group : Specify user groups
  Password : if this is empty, user can't login.
  Read Only : To set read-only access to all dataset
  Environment Filter : if environment query set, this is will filter the environment
  dataset. For example if we have env data structure : RegionID,
  RegionName; so the filter could be: RegionID='001', this coused the user
  just edit data to specify region in every GSF file.

- Other
  Hide Main Menu: To hide main menu
  Hide Top Panel : To hide top panel in main window
  Hide Recent Menu : To hide recent menu on main-window.
  Hide Outlook Button : To hide outllok button
  Hide Status Bar : To hide status bar
  Environment Text : To set environment description in main-window if
  'Environment SQL' and 'Display Env. Field' are defined.

- Profile
  You can put your customer and your company information here.

- License
  If GSS usefull for you please visit shareit for us.

B. GSF Properties

- Active SQL : This is current GSF file editing.
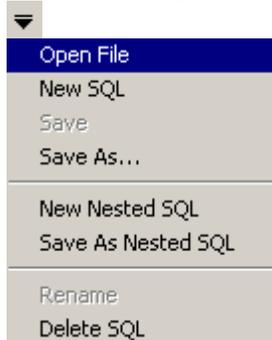
- Open File : Open other GSF file to edit
- New SQL : Create new GSF file
- Save : Save current GSF file, including nested GSF.
- Save As : Save current GSF file as new file.
- New Nested SQL : Create a nested GSF file, nested GSF stored in primary GSF
        file.
- Save As Nested SQL : Save current editing GSF into new name of nested GSF
        file.
- Rename : Rename current GSF.
- Delete SQL : Delete current GSF, there is a difference between deleting nested
        GSF and deleting master GSF.
- Locked : To prevent editing final GSF file.

Window
- Form Name :
    1. This form name usefull for identified form as MDI child, so the form will not
       open more then once.
    2. This form name will shown in report designer to print the fields.

- Icon : To change default applications icon (*.ico)
- *Dimension* Left : To put window at x coordinate
- *Dimension* Top : To put window at y coordinate
- *Dimension* Width : To specify width of the form
- *Dimension* Height : To specify height of the form
- Sizeable : To make the window sizeable
- Escape : To call close window when escape key pressed.

- MDI Child : To set form as MDI child, works if Application set MDI form (see project properties)
- Maximized : To set window state start as maximized.
- *Caption* Main Window : To set form caption
- *Caption* Editor : To set form caption in editor mode
- *Caption* Grid : To add additional caption in grid mode
- *Caption* Find Window : To display caption in select mode.
- Help ID : To set help ID when projects help file assigned.
- Help Type : To identify help ID type.

Layout
- Type :
  Grid – Layout is grid (default)
  Editor – Layout is editor
  Left – Layout is editor at left and grid at right
  Top – Layout is editor at top and grid at bottom
  Right – Layout is grid at left ant editor at right
  Bottom – Layout is grid at top and editor at bottom
  Report – Tell to GSS that the GSF is to print
  Update – Tell to GSS that GSF is update SQL
- Insert : If the layout is 'Editor' and 'Insert' checkbox is checked then the form will set to insert mode only.
- Size : if the layout have editor and grid, this size can specify the size of grid, for example: "400" or in percent format : "70%".
- Update Message : if layout is 'Update' then when sql ready to execute this message will appear.
- Refresh table : To refresh other opened GSF file.

Data
- Main Table : Specify of main table or procedure to access.
- Procedure : Identity if the main table is a procedure name in database.
- Key : key of the table
- Alias : alias of the table
- Request Live : To add : edit, insert, and update capability.
- Self Edit : To make a grid as editor.
- Cached Updates : To prevent data posting to server automatically, posting to server right after update button click.
- Update Object : To create update SQL (automatically) so the complex SQL is editable. Table to edit is main table with key and alias specified.
- Summary SQL : To show footer summary field at grids column.
- History Table : To show log table when available.
- Auto Refresh : To watch changing of table, this is will automatically refresh rows from server.
- Prevent Edit/Delete : To prevent edit/delete to any user groups when condition is true.
- Where : The expression to calculate to prevent Edit/Delete condition.
        For example: %aprove%='Y'

'+' at right-bottom the editor ( ) that's mean we can press insert on keyboard to get a field or substitution variable.

Grid

- Style : to change grid color.

  (gsNormal, gsCustom, gsPriceList, gsMSMoney, gsBrick, gsDesert, gsEggplant, gsLilac, gsMaple, gsMarine, gsRose, gsSpruce, gsWheat, gsSoftWheat, gsSoftRose, gsAquaBlue, gsSoftMaple, gsSoftLilac, gsSoftDesert, gsSoftEggPlant, gsSoftBrick, gsSoftSpruce, gsSoftYellowGreen, gsSoftGray)

- Filter : to show/hide filter capability.
- Row Select : To change column select to row select instead.
- Always Show Selection : To make selection always visible.
- Title : To show/hide grid title
- Indicator : To show/hide grid indicator
- Col Lines : To show/hide grid column lines
- Row Lines : To show/hide grid row lines
- Font : To set grid font and background color
- Title Font : To set grid title columns and background color
- Bands Font : To set bands font.
- Report File : To specify report file in grid. If the report file is new file, press and hold down shift key when click print button in grid data form.
- Export Excell : To show/hide export button in grid data form.
- Export-Import Type : To enable/disable export-import capability and set data format.

  Data format :   Slim = Only send data

                   SQL = Send data in standard SQL format
- Encrypted: To set export/import text file encrypted.
- Clean key: To set filters key to clean dataset when importing data.
- Show Caption : To show/hide grid caption
- Font : To set grids caption font and background color
- **Hilight**
  - Font : Hilight font and color
  - Field : if this field is blank, hilight will affect to all columns.
  - Expression : Condition to calculate, for example : %amount%>100000
    Press insert to add a field.

Editor
- Form Name : this form name will usefull to print data in editor window.
- Flat : To set all control as flat.
- Sizeable : To set editor form can resize.
- Label-On-Top : To set label at top of the data control.
- Insert Once : To close the form when data posted in insert process.
- Right Justify Label : To set label justification.
- Wall Paper : To set editor forms wallpaper, this is will replace default wallpaper specified in project properties.
- *Dimension* Left : To put editor window at x coordinate
- *Dimension* Top : To put editor window at y coordinate
- *Dimension* Width : To specify width of the editor form
- *Dimension* Height : To specify height of the editor form

- Button Position : To set save/close button position
- *Margin* Left : Left space
- *Margin* Top : Top space
- *Margin* Right : Right space
- *Margin* Bottom : Bottom space
- Column Count : to set editors column count.
- Font : Default editor font
- Report File : To print a row in editor.

- **Objects:** to add object in editor forms.
  - Type : (image, Rect, text)
  - Active : to activate/deactivate current object.
  (type : Image)
  - Source : (file, field)
  - Use Web Browser : Set image or object viewer to web browser component so can view any file extention such as: *.html, *.jpg, *.pdf, *.doc, etc.
  - Image File : We can set still image file or image from field value, use (…) button to explore.
  - Directory : To hold files
  - *Dimension* Left : To put object at x coordinate
  - *Dimension* Top : To put object at y coordinate
  - *Dimension* Width : To specify width of the object
  - *Dimension* Height : To specify height of the object
  - Framed : To add frame around of the object window
  - Shadow Color : To add shadow of object window
  - Read Only : To set data as view only.
  - Hide Navigator : To hide/show navigator.
  (type : Rect)
  - *Dimension* Left : To put rectangle at x coordinate
  - *Dimension* Top : To put rectangle at y coordinate
  - *Dimension* Width : To specify width of the rectangle
  - *Dimension* Height : To specify height of the rectangle
  - Rounded : to set rounded at cornet of rectangle
  - Frame Color : to specify frame color
  - Fill Color : to specify rectangle color
  (type : Text)
  - *Position* Left : x coordinate text position
  - *Position* Top : y coordinate text position
  - Font : text font
  - Caption : text objects caption

Attach : to attach other (nested) GSF file in opened GSF
- Place : (grid, print, sub, detail)
  Grid: The attach file will accessed from grids popup menu
  Print: The attach file will accessed from print button in grid window
  Sub: The attach file will accessed from new button at grid window

Detail: The attach file will show in grid window

To setup relation ship between attached file we can add ":rel-field" in SQL, for example if we have master query structure (EmployeeID, EmployeeName) then attached SQL should have expression like this:

   Where EmployeeID=:EmployeeID

For more explanation see section "IV. Relationship Between GSF File"

- Active : to activate/deactivate attachment
- SQL File : to specify GSF file
- Set Fields : to specify fields to set from master datasource when inserting a row.
- Column : If the attachment will shown at a specify column not whole of grids.
- Value : the value to condition the attachment visibility.
- Hint : Attachment hint text.
  - Format: <Short Hint>|<Long Hint>
- Size : Button width or window size (accept window size in percent)
- Position :If attachment is detail, where the control should place.
  - (left, right, top, bottom) default is bottom.
- On Editor : Show attachment in editor window instead.
- Refresh Caller : if attachment data is updated, then caller data will refresh.
- Default : If 'default' is checked and the attachment placed in grid or print then
  - where grid is double click then the attachment will execute.
- Flat Button : To set button style as flat
- Wallpaper : To change panel wallpaper/background
- Color : To set panel background color when wallpaper is unset.

Graphics
- Type : (pie, line, bar)
- Active : activate/deactivate graphics
- Data : (row, col)
- Embed : Show in main GSF window
- Field Label : Specify field label where data source is col
- Data Fields : specify data fields
- Height : specify control height (accept in percent format) when graphics is in
  - embed mode.
- Caption : Caption text
- Hint : Hint text
- Title : Graphics Title, accept substitution (see V. Substitution)
- Sub Title : Graphics sub title, accept substitution (see V. Substitution)
- Wall : Graphics wall paper (image file)
- Background : Graphics background color
- Font : Graphics font
- Title Font : Graphic title font

SQL

- Free Edit : To edit SQL as free text editor
- Wizard : To collect fields from some table
- Filtering : To add data filter and filter dialog box
    Caption : Filter dialog box caption
    Embed : Set filter control in main GSF window
    Window Left : To put dialog window at x coordinate
    Window Top : To put dialog window at y coordinate
    Window Width : To specify width of the dialog window
    Window Height : To specify height of the dialog window
    Skip Dialog : To apply default value of filter without showing dialog window
    Wall Paper : Change default input window wall paper
    Font : Dialog window global font.

Input Dialogs Properties:
Name : Specify a name
Caption : Specify a caption (optional)
Type :

SQL File : Specify lookup GSF file (only if fialog type is lookup)
Update : to update other input field when lookup data set selected
            Example: CustomerID,Customer=CustomerName

Set Field : Field to set when new record created
Width : Specify width the edit control
Height : Specify height the edit control
Pull : Pull-up position of edit control
Hide : Hide edit control
Disabled : Disabled edit control
Read Only : Set control as read only
Tab Stop : To get or release tab stop
Char Case : (Normal, Upper, Lower)
Default : Default value
Label Font : Specify label font
Editor Font : Specify editor font
Domain : Set domain (see section VI. Domain)
Col Count : Set column count

- ***Field Rule***
    Field : Field name to add the rule
    Procedure : database procedure/SQL
            Ex.: rule_calc_total %price%, %qry%

            Special substitution ID are : %-action-%, %old-value%, %new-value%

%-action-% : insert or edit

See section V. Substitution

There is 3 kinds result set of rules procedure: (abort, set, msg)
Rule procedure/SQL result must have field named "_" to hold action
information , for example :

1. Rule SQL to abort
   Select 'type=abort;msg="The value is not acceptable!!" ' as _
   Note: msg is optional

2. Rule SQL to show message
   Select 'type=msg;msg="Please remember the date !!"' as _

3. Rule SQL to set any fields

   a) Set Field Value

   Select 'type=set' as _,
          1997 as Year,   -- set year field value with 1997
          5000 as Amount   -- set amount field value with 5000

   Or,

   Select 'type=set;set=Year;amount' as _,
          1997 as Year,   -- set year field value with 1997
          5000 as Amount   -- set amount field value with 5000

   b) Set Field Disabled

   Rule SQL to set any fields value and disabled any field controls
   Select 'type=set;dis="OrderDate,Discount"' as _,
       0 as Price   -- set price field value to 0

   c) Set Field Enabled

   Rule SQL to set any fields value and enabled any field controls
   Select 'type=set;en="OrderDate,Discount"' as _,
       0 as Price   -- set price field value to 0

- GSF Rules (Project properties)
  (rule format, see field rule above)
      a. Before Insert
      b. Before Edit
      c. Before Delete
      d. Before Close

C. Field Properties
- Field : field name (in physical table or procedure)
- More Field : Indicate that the field is last field or not.
- Caption : Field grid caption
- Band : Some field with same band will display as a group in grid.
- Hide : Hide field in grid but in editor can display if editor specified.
- Width : Field display width.
- Footer Field : Field name in summary SQL
- Center : Set field justify as center
- Detail : To add display detail button to execute a GSF file
- Lookup : To add Lookup button to execute a GSF file
- Update : Field to be updated when lookup SGF file execute an a row selected.
  Example: CompanyID,Company=CompanyName
              CompanyID=CompanyID same as CompanyID

- Auto Number : To create auto number when new record created
  Example: select coalesce(max(OrderID),0)+1 from orders

- Cal : To add calendar button
- Exclusive : To make control read only.
- Font : Editor font
- Password : To display password char so original text will shown as '*' charanter.
- Display Format : Field display format
- Edit Mask : Editor mask edit
- Valid Chars :   To validate key stroke to some valid character,
                  for example: "AFDafd"
- Default : Default value
- Editor : (edit, check, radio, combo, text, memo, image, list, none)
  Set editor to 'none' to hide field in editor but shown in grid.
  If the editor specified the field will show event the field is invisible in grid.

- Width : Editor width (character length)
- Height : Editor height
- Col : Radio button column count
- Tail : To display additional text following editor control
- Upper-Case : Set value to upper-case
- Required : To set field as mandatory field.
- Tab Stop : To set/skip tab on control.
- Enabled : To enabled/disabled control
- Read Only : To set control as read-only
- Pull : Pull-up the editor to previous field position.
- Help ID : Specify help id when help file project assigned.
- Help Type : Help ID type
- Duplicate Table : To check duplicate value automatically
          Example: orders

- Dup. Filter : Duplicate table filter, leave it blank if duplicate table key same as the current field.
  Example: RegionID='%RegionID%'
- Domain : See section VI. Domain
- Calc. Field : See section VI. Domain
- Field Owner : The field can be edit to same of user-levels
- Rule Procedure : See previous rule explanation.

IV. Relationship Between GSF File

Relationship between two GSF file condition is:
1. Master datasource is set
   Top level datasource is environment GSF, every main GSF called in main window will set the mastersource to Environment GSF.

2. Relation field in SQL is defined
   Relation syntax is: ForeignKey=:PrimaryKey
   ForeignKey is a field name in current GSF file
   PrimaryKey is a field in master datasource

   Example: RegionID=:RegionID
             RegionID=:RegionID AND Order=:OrderID

V. Substitution

Substitution ID is some text/name between two '%' characters.
Example: %user.uid%, %user.name%

So we can add Substitution ID in SQL or Expression.
Example: Where CompanyName like '%cust.fullname%'
          Where CompanyName like '\%%my.shortname%\%'

Substitution ID can be use in :
1. Environment GSF field (env.<field-name>)
2. Global GSF field (global.<field-name>)
3. Local Data (local.<field-name>)
4. User Properties (user.UID, user.Name, user.group, user.level)
5. Customer Properties (cust.FullName, cust.ShortName, cust.Address, cust.city, cust.Phone, cust.Email, cust.Website)
6. Company Properties (My.FullName, My.Address, My.Phone, My.Email, My.Website)
7. GSF Input Dialog (input.<name>)

8. Default Constants (defa.#Year, defa.#Month, defa.#Day, defa.#Date, defa.#Time, defa.#DateTime, defa.#Day1, defa.#Month1, defa.Year, defa.Month, defa.Day, defa.Date, defa.Time, defa.DateTime, defa.Day1, defa.Month1)

   # sign is to retrieve data from sql server
   Day1 = starting date in a month, Ex: 2007/9/1
   Month1 = starting date in a year, Ex: 2007/1/1

9. Master datasource/dataset

We can put Substitution ID in :
1. SQL Statement in GSF
2. Rule SQL
3. Welcome SQL
4. Auto Number Field
5. Set Field on New Record from attachment
6. Graphics Caption and subtitle
7. Where conditional in GSF editor
8. Default value (don't need '%')
9. Report designer, Example: [my.FullName]

VI. Domain

a. Standard Format: Key1[=Value1]|Key2[=Value2]|…
   Example: 1=Sunday|2=Monday|3=Tuesday
              One|Two|Three|Four|Five=5

b. From SQL Format: !Select Key, Value From AnyTable
   Example: !Select DayID, DayName From DayList
              !Select MonthName From MonthList

Note: We can retrieve domain value using this format:
   - %(fieldname)%
   - %input.(name)%

VII. Startup, Scheduling, Run Once
When GSS run, there is three initialization files will execute:
1. GSS.ini,
   - Contain GSS project information
   - When this gss.ini file not found in project directory, GSS will create this file automatically, this mean you don't have any project created.
   - When a project was created, there is new section with your project name as a section name.

- If <home-directory> not specify, GSS will assume that <project-dir> same as <home-dir>
- Hostname, protocol, database, user, password will ignore when this connection parameter specify in GSS project.
- Here is the example of GSS.ini :

```
--------------------------------------------------------------------------------------------
[project]
Open=<project-name>.gsp          ; to open a project automatically when GSS start

[<project-name>]                 ; a project section
Home=<home-directory>
Hostname=
Protocol=
Database=
User=
Password=
--------------------------------------------------------------------------------------------
```

2. Startup.ini
   To run some gss file(s) at startup affect to all user.
   There are five section types:
   [always]   ; to execute some gss files every time gss up
   [daily]   ; to execute some gss files every day
   [1]   ; to execute some gss files every 1st day in each month
   [1/5]   ; to execute some gss files every 1st day and 5th month
                           in each years
   [1/1/2007]   ; to execute some gss files in a specify date

   Here is the example, we want to execute "Summary Report.gsf", "Save Order.gsf" every time GSS up:

```
--------------------------------------------------------------------------------------------
[always]
Summary Report.gsf
Save Order.gsf
```

3. Startup#<user-group>.ini
   To run some gss file(s) at startup affect to a group specified. (See Start.ini)

4. *.gsf stored in <homedir>\once directory
   Every file(s) stored in \once directory will execute and delete when GSS run.

VIII. Sample Northwind Project

To show more about how GSS works you can activate sample application northwind.zip

(Using standard northwind Database from mssql)
To activate, just place the files and the directory into same directory.
- GSS.exe
- Gss.ini
- Northwind.gsp
- Northwind\
- Execute: sp_categories.sql
- User.gsf
- Create directory c:\images

Any question please post to greensolution yahoo group.
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"Database programming must be simply" that's our concern.

(GSS Team)