

ProvideX

Version 9.10

NOMADS *File Layouts*

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Introduction

The purpose of this document is to provide detailed information for the following NOMADS files. The file layout contains the variable name, description, possible values stored in the variable as well as what fields can contain an expression and message library reference (a **Y** will be displayed in the **Exp** and **Msg** columns). An = will precede the expression or message library reference.

- Screen Library
- System Defaults
- Data Classes
- User Defined Colours
- AutoComplete Definitions
- Calendar Definitions
- Templates
- Visual Classes
- SQL Key Definitions
- Security Classifications
- Security Users
- Data Dictionary

File Formats Outline

Screen Library

- General Layout

- Record Types

 - Library Defaults

 - Panel Header

 - Box/Frame

 - Button

 - Chart

 - Check Box

 - Drop/List Box

 - External VBX

 - Fonted Text

 - Grid

 - Image/Picture

 - Multi-Line

 - OCX

 - Radio Button

 - Scroll Bars (Horizontal/Vertical)

 - Selector/Folder

 - Text

 - Shapes (Arc, Circle, Line, Pie, Polygon, Rectangle)

 - Query

 - Standard (Header, Element, Formula, Selection, Link File)

 - List (Header, Element, Formula, Selection, Link File)

 - Grid Presets

 - Grid Cell Logic

 - Chart Presets

 - Dependency

 - Drag and Drop

 - User Controls

 - Embedded Panels

 - Menu Bar

Data Dictionary

System Defaults

Data Classes

User Defined Colours

Auto Complete Definitions

Calendar Definitions

Templates

Visual Classes

SQL Key Definitions

Security

Note: The above formats are subject to change as new features become available in NOMADS.

Screen Library

A NOMADS library is stored in a PVX *Direct* data file. The name of the file is that of the library, with a language extension; e.g., `scrnlib.en`.

The key is stored separate from the data; i.e., the data record does not include the key.

Key Length: 16

Record Length: 1024

The key consists of the *panel name* (characters 1-12) and the *screen position* (characters 13-16).

Example:

```
MYPANEL      0305
```

Note: The 4-byte screen position is based on the closest column/row coordinate of the control. This causes NOMADS to paint the form left-right/top-down. If two controls occupy the same integer column/row, NOMADS simply adds 1 to the value until a unique key is found.

The library default record is stored with bytes (1,12) blank plus four zeros, and form headers are stored with the panel name plus four zeros in bytes (13,4).

All records contain the same 52 fields. Based on the control type, certain fields will not be used and others will have differing meanings. The documentation contains a general file layout followed by the specific layout for each kind of record and for each control type. Refer to the table **GENERAL LIBRARY LAYOUT** which shows the fields defined and general data content of the file.

Library Variables

Field	Variable	Field	Variable
1	OBJ_NME\$	31	OBJ_ORIG\$
2	OBJ_C	32	OBJ_FONT\$
3	OBJ_L	33	OBJ_COLOR\$
4	OBJ_W	34	OBJ_LISTBOX_TYPE\$
5	OBJ_H	35	OBJ_SEP\$
6	OBJ_TYPE\$	36	OBJ_SCRATCH\$
7	OBJ_TXT\$	37	OBJ_POPUP\$
8	OBJ_VAL\$	38	OBJ_SIZING\$
9	OBJ_TAB	39	OBJ_LOGIC1\$
10	OBJ_DEF\$	40	OBJ_LOGIC2\$
11	OBJ_DSP\$	41	OBJ_POPUP_LOGIC\$
12	OBJ_FC\$	42	OBJ_QRY_BITMAP\$
13	OBJ_SEL\$	43	OBJ_QRY_WIDTH
14	OBJ_MSG\$	44	OBJ_QRY_TIP\$
15	OBJ_HLP\$	45	OBJ_QRY_ATTR\$
16	OBJ_ATTR\$	46	OBJ_EXTENSION\$
17	OBJ_IDX\$	47	OBJ_DEMAND\$
18	OBJ_HOTKEY\$	48	OBJ_DEMAND_LOGIC\$
19	OBJ_QRY\$	49	OBJ_BACKGROUND_LOGIC\$
20	OBJ_SEC\$	50	OBJ_PERSISTENCE\$
21	OBJ_STS\$	51	OBJ_NOTES\$
22	OBJ_GRP\$	52	OBJ_TBL_LEN
23	OBJ_NULL\$	53	OBJ_TVLINE_COLOR\$
24	OBJ_TAG\$	54	OBJ_AUTOSZ_WIDTH\$
25	OBJ_TBL\$	55	OBJ_AUTOSZ_HEIGHT\$
26	OBJ_INP\$	56	OBJ_AUTOMATION_TEXT\$
27	OBJ_OUT\$	57	OBJ_HILIGHT_COLORS\$
28	OBJ_VALID\$	58	OBJ_PROPS\$
29	OBJ_CLASS\$	59	OBJ_VISUAL_CLASS\$
30	OBJ_TIP\$		

General Library Layout

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			Name of control
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Type			See Type Table
OBJ_TXT\$	Text	Y	Y	For folders, contains list of sub forms For buttons, checkbox, radio buttons, contains bitmaps
OBJ_VAL\$	Initial Value			
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0 = no tab stop)
OBJ_DEF\$	Default			Box frame type (1:Std, 2:Recessed, 3:Raised,4:3d)
OBJ_DSP\$	Post Create /Prior Create/ Pre-Display Logic			See Logic Table
OBJ_FCS\$	On Focus Logic/Post Display Logic			See Logic Table
OBJ_SEL\$	On Change/On Exit Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font. Multilines \$=password
OBJ_IDX\$	Button Index			Radio button index
OBJ_HOTKEY\$	[ALT] Key			Values A-Z, 0-9
OBJ_QRY\$	Query Related Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SEC\$	Security access			Security access level+";"+security class+";" <i>Security access levels:</i> F = Full access V = view only

Variable	Description	Exp	Msg	Values
				<i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Null Value			
OBJ_TAG\$	User defined Tag field	Y		
OBJ_TBL\$	Translation Table	Y		
OBJ_INP\$	Input Validation Program			
OBJ_OUT\$	Output Validation Program			
OBJ_VALID\$	Comma separated validation rules			
OBJ_CLASS\$	Data Class			Validated against 'Providex.Dcl'
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Customization Data			(1,8)=Last customize date, (9,3)=User code, (12,4)=4-Byte original key (from 13,4)
OBJ_FONT\$	Font			See Font Table
OBJ_COLOR\$	Colour			See Colour Table
OBJ_LISTBOX_TYPE\$	List box Type			
OBJ_SEP\$	Separator Field			Character to be used between lines in a multi-line input field
OBJ_SCRATCH\$	Format Definition			Preserved list of List Box info for different views. 1st pos =Hex \$01\$ 2nd pos= List box Type from obj_listbox_type\$ rest = format info ie.\$01\$+"L"+format info
OBJ_POPUP\$	Popup Menu Object			
OBJ_SIZING\$	Panel sizing option			
OBJ_LOGIC1\$	Smart controls pre-load logic			
OBJ_LOGIC2\$	Smart controls post-load logic			
OBJ_POPUP_LOGIC\$	Popup menu logic – executes before menu is drawn			
OBJ_QRY_BITMAP\$	Query Bitmap			
OBJ_QRY_WIDTH	Query button width			
OBJ_QRY_TIP\$	Query tool tip	Y	Y	

Variable	Description	Exp	Msg	Values
OBJ_QRY_ATTR\$	Query button attributes			F – Flat button B – Bitmap button
OBJ_EXTENSION\$	Default custom parameters for library. The custom info is stored in 'Providex.prm' The key for the library custom info is 'LIB_EXTENSIONS' Use the Application Parameter Configuration utility to add new parameters for the library.			
OBJ_DEMAND\$	Load on demand flag			0 or 1
OBJ_DEMAND_LOGIC\$	Load on demand logic			
OBJ_BACKGROUND_LOGIC\$	Background Loading logic			
OBJ_PERSISTENCE\$	Object Persistence flag			Input controls only (drop/list boxes, grids, multi-lines)
OBJ_NOTES\$	Comments field			Panel Header, Panel Objects
OBJ_TBL_LEN	Translation Table Length			Drop boxes list boxes (standard/formatted/list view) variable drop/list boxes are not supported
OBJ_TVLINE_COLOR\$	Display colour of connecting lines			Tree view list box
OBJ_AUTOSZ_WIDTH\$	On focus resize width			Multi-lines
OBJ_AUTOSZ_HEIGHT\$	On focus resize height			Multi-lines
OBJ_AUTOMATION_TEXT\$	Text/name exposed to external automation tools.	Y	Y	Buttons, check boxes, drop/list boxes, grids, multi-lines, chart, radio buttons, scrollbars.
OBJ_HILIGHT_COLORS\$	Background colors for alternating lines.			List boxes (standard/formatted/list view/report view)
OBJ_PROPS\$	Control Properties. Contains a list of properties separated by a hex 01. Property definition consists of <i>property name</i> + "=" + <i>property value</i> . Property value can contain a fixed value or expression. An "=" precedes the expression.			Currently used for charts.
OBJ_VISUAL_CLASS\$	Visual Class Name			Button, Chart, Check box,

Variable	Description	Exp	Msg	Values
				Drop/List Boxes, Grid, Multi-line, Radio button, Folder, Frame, Tristate box, Variable Drop Box, Variable List Box

General Library Layout – Cross Reference List

Variable	Description	Used For
OBJ_NME\$	Prefix Panel Name Control Number Object Name	Library Defaults Panel Header Controls Panel objects
OBJ_C	Column	Library Defaults, Panel Header, Panel objects
OBJ_L	Line	Library Defaults, Panel Header, Panel objects
OBJ_W	Width	Library Defaults, Panel Header, Panel objects
OBJ_H	Height	Library Defaults, Panel Header, Panel objects
OBJ_TYPE\$	Type	See Type Table
OBJ_TXT\$	Description	Library Defaults
	Panel Title Element List or Top Level id and Help Indicator Text Text, Bitmaps, Bitmap Align, Button Align List of values Name/Title of Tabs Picture Path Input Format	Panel Header Menu bar Box, Fonted text, Image, Text objects Button, Checkbox, Radio button objects External-VBX object Folder object Image/picture object Multi line object
OBJ_VAL\$	Initial Value Default Setting	Multi-line object Checkbox, Drop/List box objects
OBJ_TAB	Tab Stop	Panel objects
OBJ_DEF\$	Directory Suppress .VAL Style Default Push Events and Logic Tab Colour Initially On Resizable Gridlines Autoload Trigger, Trigger Variables, Trigger Test Pen Style/ Width/Colour	Library Default Panel Header Box Button External-VBX object/COM controls Folders Radio Buttons Grid (if 1 st position = 1) Grid (if 2nd position = 1) Drop Boxes/List Boxes Shapes (Arc, Circle, Line, Pie, Polygon, Rectangle)

Variable	Description	Used For
OBJ_DSP\$	Post Create Logic/Prior Button Display Logic/Pre-Display Logic	Panel Header, Chart, Drop/List box, Grid, Multi-line, Radio button, Scrollbars, Button, Checkbox
OBJ_FCS\$	When Receiving Focus Logic/Post Display Logic	Panel Header Button, Checkbox, Chart, Drop/List box, Grid, Multi-line, Radio Button, Scrollbars
OBJ_SEL\$	On Change Logic/When Button Pressed Logic/When Entry Is Selected From List Box/When Data Set Is Selected From Chart/On Exit Logic Reposition Logic Type Type + Function Ctl Process Logic	Panel Header Chart, Grid, Multi-Line, Drop/List Box Button, Check box, Radio Button Scrollbar object Menu bar top level Menu bar item Control
OBJ_MSG\$	Message Line Suppress Help Line Separator	Library Defaults, Panel Header, Panel objects Menu bar Top level Menu bar item
OBJ_HLP\$	Help	Library Defaults, Panel Header, Panel objects
OBJ_ATTR\$	Attribute Properties Image Format Password Selected Mnemonics	Library Defaults, Panel Header, Panel objects External-VBX object Image/Picture object Multi-line object Text object
OBJ_IDX\$	Precision Levels Tool Type Tab Width Static Columns Input Length Button Index Fill info State Indicators (Tree View Control)	Panel Header Menu bar Item External-VBX object Folder object Grid Multi-line object Radio button index Shapes (Circle, Pie, Polygon, Rectangle)
OBJ_HOTKEY\$	3D Attribute Last Update [ALT] Key	Library Defaults Panel Header Drop/List box, External-VBX, Multi-line objects
OBJ_QRY\$	User DD I/F Query Related Object info, Spinner	Library Defaults Drop/List box, Multi-line objects
OBJ_SEC\$	Security access	Panel Header Panel Objects

Variable	Description	Used For
OBJ_STS\$	Field Attributes/Status	Panel header and objects
OBJ_GRP\$	Groups	Panel Objects
OBJ_NULL\$	Menu colours (text background/left edge) Auto Defaults Formatted Info Empty Value Radius/Ratio X,Y Values	Library Defaults Panel Header Formatted List box object Multi-line object Shapes (Arc, Circle, Pie) Shapes (Line, Polygon)
OBJ_TAG\$	Tag	Panel objects
OBJ_TBL\$	State Off/On/3 rd Translation Table	Checkbox objects Drop/List box, Radio button objects
OBJ_INP\$	Default Program Input Validation Angles	Panel Header Multi-line object Shapes (Arc, Pie)
OBJ_OUT\$	Output Validation	Multi-line object
OBJ_VALID\$	User Id Validation Rules separated by commas	Panel Header Multi-line object
OBJ_CLASS\$	Data Class	Multi-line, Drop/List box, Checkbox, Radio button objects, Grids
OBJ_TIP\$	Tool Tip	Panel Header and Panel objects
OBJ_ORIG\$	Customization Data	
OBJ_FONT\$	Font Details	Library Defaults, Panel Header and Panel objects
OBJ_COLOR\$	Colour	Library Defaults, Panel Header and Panel objects
OBJ_LISTBOX_TYPE\$	List Box type	List Boxes only
OBJ_SEP\$	Separator Column Separator	Multi-line object For selected list boxes (Formatted, List view, Tree view) and Grid
OBJ_SCRATCH\$	Format Definition	List Boxes only
OBJ_POPUP\$	Popup Menu Object	Panel Header Button, Chart, Check box, Drop/List Boxes, Grid, Multi-line, Radio button
OBJ_SIZING\$	Panel sizing option	Panel Header and Panel Objects
OBJ_LOGIC1\$	Smart Controls Pre-load logic Dependency condition logic	
OBJ_LOGIC2\$	Smart controls Post-load logic	
OBJ_POPUP_LOGIC\$	Popup menu logic – executes before menu is drawn	Panel Header Button, Chart, Check box, Drop/List Boxes, Grid, Multi-line, Radio button
OBJ_QRY_BITMAP\$	Query Bitmap	Multi-line

Variable	Description	Used For
		Grid (presets)
OBJ_QRY_WIDTH	Query button width	Multi-line Grid (presets)
OBJ_QRY_TIP\$	Query button tip	Multi-line Grid (presets)
OBJ_QRY_ATTR\$	Query button attributes F – Flat button B – Bitmap button	Multi-line Grid (presets)
OBJ_EXTENSION\$	Default custom parameters for library. The custom info is stored in 'Providex.prm' The key for the library custom info is 'LIB_EXTENSIONS' Use the Application Parameter Configuration utility to add new parameters for the library.	Library Defaults
OBJ_DEMAND\$	Load On Demand flag	List Boxes Only (Standard/Formatted/List View) Variable List Boxes are not supported
OBJ_DEMAND_LOGIC\$	Load On Demand Logic	List Boxes Only (Standard/Formatted/List View) Variable List Boxes not supported
OBJ_BACKGROUND_LOGIC\$	Background Loading Logic	Drop/List Boxes, Grids
OBJ_PERSISTENCE\$	Object Persistence flag	Input controls only (drop/list boxes, grids, multi-lines)
OBJ_NOTES\$	Comments field	Panel Header, Panel Objects
OBJ_TBL_LEN	Translation table length value	Drop Boxes, List Boxes (Standard/Formatted/List View) Variable Drop/List Boxes are not supported
OBJ_TVLINE_COLOR\$	Display colour of connecting lines	Tree view list box
OBJ_AUTOSZ_WIDTH\$	On focus resize width	Multi-lines
OBJ_AUTOSZ_HEIGHT\$	On focus resize height	Multi-lines
OBJ_AUTOMATION_TEXT\$	Text/name exposed to external automation tools.	Buttons, check boxes, drop/list boxes, grids, multi-lines, chart, radio buttons, scrollbars.
OBJ_HILIGHT_COLORS\$	Background colors for alternating lines.	List boxes (standard/ formatted/list view/report view)
OBJ_PROPS\$	Control Properties. Contains a list of properties, separated by a hex 01. Property definition consists of <i>property name</i> + "=" + <i>property value</i> . Property value can contain a fixed value or expression. An "=" precedes the expression.	Currently used for charts

Variable	Description	Used For
OBJ_VISUAL_CLASS\$	Visual Class Name	Button, Chart, Check box, Drop/List Boxes, Grid, Multi-line, Radio button, Folder, Frame, Tristate box, Variable Drop Box, Variable List Box

Library Defaults Layout

Record Key: Blank (1,12) + '0000' (13,4)

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Prefix			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Not used			
OBJ_TXT\$	Library Description			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Directory			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Visual mode effect			Null = Default 0 = 2D 1 = 3D 2 = 4D
OBJ_QRY\$	User DD I/F			
OBJ_SEC\$	Not used			
OBJ_ST\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Menu colours (text background/left edge)			A ; semi-colon separates each colour. See Colour Table
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table

Variable	Description	Exp	Msg	Values
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	<p>Default custom parameters for library. The custom info is stored in 'Providex.prm' The key for the library custom info is 'LIB_EXTENSIONS'</p> <p>Use the Application Parameter Configuration utility to add new parameters for the library.</p>			<p>Parameters may consist of string, numeric and Boolean variables as well as system parameters. A ; semi-colon separates each parameter.</p> <p><i>Example:</i> LibraryFont\$="Arial";SET PARAM 'XI'=1;Companycode\$="ABC"</p>
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Panel Header Layout

Record Key: Panel name (1,12) + '0000' (13,4)

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Panel Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			W = Window D = Dialogue
OBJ_TXT\$	Title	Y	Y	
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Suppress .Val			Suppresses .Val if valued 1, defaults to include .Val
OBJ_DSP\$	Pre Display Logic			See Logic Table
OBJ_FCS\$	Post Display Logic			See Logic Table
OBJ_SEL\$	On Exit Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x)+ other Mnemonics. Colors stored in MODE, "*" = fixed font.
OBJ_IDX\$	Precision			
OBJ_HOTKEY\$	Last Update			Date Stamp and User ID
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level+"":+"security class+", <i>Security access levels:</i> F = Full access <i>Example:</i> "F:ADMIN,F:USER1,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Not used			
OBJ_NULL\$	Auto Close, Auto Refresh and Size Adjustment flags			C Auto Close Files R Auto Refresh S Size Adjustment
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Default Program	Y		
OBJ_OUT\$	Not used			
OBJ_VALID\$	User Id			System valued

Variable	Description	Exp	Msg	Values
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Panel sizing options			Null – Fixed Null – Resizable Null – Resizable/Auto Scroll Z – Resizable/Auto Size C – Resizable/Custom
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Grid Presets Layout

Record Key: Panel name (1,12) + 'X###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Values
OBJ_NME\$	Control Name	
OBJ_C	Not used	
OBJ_L	Row Number	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Type	G
OBJ_TXT\$	Not used	
OBJ_VAL\$	Property Name	<Control id>'*
OBJ_TAB	Not used	
OBJ_DEF\$	Fixed/Expression Flag	"" Fixed 0 Fixed 1 Expression
OBJ_DSP\$	Not used	
OBJ_FCS\$	Not used	
OBJ_SEL\$	Property Value	
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Not used	
OBJ_HOTKEY\$	Not used	
OBJ_QRY\$	Not used	
OBJ_SEC\$	Not used	
OBJ_ST\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Not used	
OBJ_TAG\$	Not used	
OBJ_TBL\$	Column number or name	
OBJ_INP\$	Not used	
OBJ_OUT\$	Not used	
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Data Class Name	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Not used	
OBJ_LOGIC2\$	Not used	

Variable	Description	Values
OBJ_POPUP_LOGIC\$	Not used	
OBJ_QRY_BITMAP\$	Not used	
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Not used	
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	
OBJ_VISUAL_CLASS\$	Not used	

Grid Cell Logic Layout

Record Key: Panel name (1,12) + 'Y###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Values
OBJ_NME\$	Control Name	
OBJ_C	Not used	
OBJ_L	Row Number	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Type	G
OBJ_TXT\$	Not used	
OBJ_VAL\$	Not used	
OBJ_TAB	Not used	
OBJ_DEF\$	Not used	
OBJ_DSP\$	Not used	
OBJ_FC\$	On Focus Logic for cell(s)	See Logic Table
OBJ_SEL\$	On Change Logic for cell(s)	See Logic Table
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Not used	
OBJ_HOTKEY\$	Not used	
OBJ_QRY\$	Not used	
OBJ_SEC\$	Not used	
OBJ_ST\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Not used	
OBJ_TAG\$	Not used	
OBJ_TBL\$	Column number or name	
OBJ_INP\$	Validation Logic for cell(s)	Program;Label Entry (no quotes)
OBJ_OUT\$	Formatting Logic for cell(s)	Program;Label Entry (no quotes)
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Not used	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Not used	
OBJ_LOGIC2\$	Not used	

Variable	Description	Values
OBJ_POPUP_LOGIC\$	Not used	
OBJ_QRY_BITMAP\$	Not used	
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Not used	
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	
OBJ_VISUAL_CLASS\$	Not used	

Chart Presets Layout

Record Key: Panel name (1,12) + 'W###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Control Name			
OBJ_C	Data Set			Valid entries: 0,1, -1, -2, or -3
OBJ_L	Data Point			Valid entries: 0, -1, -2 or -3
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Type			H
OBJ_TXT\$	Not used			
OBJ_VAL\$	Property Name			Example: Autoscale Font LabelLocation TextColour
OBJ_TAB	Not used			
OBJ_DEF\$	Fixed/Expression Flag			"" Fixed 0 Fixed 1 Expression
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Property Value			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LO GIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT \$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Dependency Records Layout

Record Key: Panel name (1,12) + 'V###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Values
OBJ_NME\$	Not used	
OBJ_C	Not used	
OBJ_L	Not used	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Type	+
OBJ_TXT\$	Not used	
OBJ_VAL\$	Not used	
OBJ_TAB	Not used	
OBJ_DEF\$	Control Name + Actions	<p><Control Name> + “.” + <Object Type> + “,” + <Control Action> + <Tab Table Action> + “^” + <Insert Before>“;”</p> <p><i>Control Action:</i> D – Disable E – Enable L – Lock (multi-lines only) H – Hide S – Show U – Unlock (multi-lines only)</p> <p><i>Tab Table Action:</i> A – Add R – Remove</p> <p><i>Insert Before:</i> (used with Add option) Beginning of Tab Table End of Tab Table Control Name</p> <p><i>Example:</i> CST_ID:M,EA^Beginning of Tab Table;BUTTON1:B,H</p>
OBJ_DSP\$	Not used	
OBJ_FCS\$	Not used	
OBJ_SEL\$	Condition	IF statement
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Invert Flag (Applies to controls and Groups only)	Values: Y or N Y - test the NOT of the condition
OBJ_HOTKEY\$	Not used	

Variable	Description	Values
OBJ_QRY\$	Not used	
OBJ_SEC\$	Not used	
OBJ_STS\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Group Name + Action	<Group Name>+”,”+Action+”,” Action Values: D – Disble E - Enable H - Hide S – Show <i>Example: FIELDS,D;STATUS,S</i>
OBJ_TAG\$	Not used	
OBJ_TBL\$	Not used	
OBJ_INP\$	Not used	
OBJ_OUT\$	Not used	
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Not used	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Logic to execute if true	See Logic Table
OBJ_LOGIC2\$	Not used	
OBJ_POPUP_LOGIC\$	Not used	
OBJ_QRY_BITMAP\$	Not used	
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Not used	
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	

Variable	Description	Values
OBJ_VISUAL_CLASS\$	Not used	

Drag and Drop Records Layout

Record Key: Panel name (1,12) + 'R###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Values
OBJ_NME\$	Drag From Control Name	
OBJ_C	Not used	
OBJ_L	Not used	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Object Type	A
OBJ_TXT\$	Not used	
OBJ_VAL\$	Not used	
OBJ_TAB	Not used	
OBJ_DEF\$	Not used	
OBJ_DSP\$	Not used	
OBJ_FCS\$	Not used	
OBJ_SEL\$	On Drop Logic	See Logic Table
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Not used	
OBJ_HOTKEY\$	Not used	
OBJ_QRY\$	Not used	
OBJ_SEC\$	Not used	
OBJ_STS\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Drop On Control Name	
OBJ_TAG\$	Not used	
OBJ_TBL\$	Not used	
OBJ_INP\$	Not used	
OBJ_OUT\$	Not used	
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Not used	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Not used	
OBJ_LOGIC2\$	Not used	
OBJ_POPUP_LOGIC\$	Not used	
OBJ_QRY_BITMAP\$	Not used	

Variable	Description	Values
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Not used	
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	
OBJ_VISUAL_CLASS\$	Not used	

User Control Layout

Record Key: Panel name (1,12) + 'U###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Values
OBJ_NME\$	Control #	Used for control records U###
OBJ_C	Not used	
OBJ_L	Not used	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Object Type	U
OBJ_TXT\$	Not used	
OBJ_VAL\$	Not used	
OBJ_TAB	Not used	
OBJ_DEF\$	Not used	
OBJ_DSP\$	Not used	
OBJ_FCS\$	Not used	
OBJ_SEL\$	CTL Process Logic	See Logic Table
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Not used	
OBJ_HOTKEY\$	Not used	
OBJ_QRY\$	Not used	
OBJ_SEC\$	Not used	
OBJ_STS\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Not used	
OBJ_TAG\$	Not used	
OBJ_TBL\$	Not used	
OBJ_INP\$	Not used	
OBJ_OUT\$	Not used	
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Not used	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Not used	
OBJ_LOGIC2\$	Not used	
OBJ_POPUP_LOGIC\$	Not used	

Variable	Description	Values
OBJ_QRY_BITMAP\$	Not used	
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Not used	
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	
OBJ_VISUAL_CLASS\$	Not used	

Embedded Panels Layout (Obj_Type\$="&")

Variable	Description	Values
OBJ_NME\$	Name of embedded Panel	
OBJ_C	Not used	
OBJ_L	Not used	
OBJ_W	Not used	
OBJ_H	Not used	
OBJ_TYPE\$	Object Type	&
OBJ_TXT\$	Not used	
OBJ_VAL\$	Not used	
OBJ_TAB	Not used	
OBJ_DEF\$	3D Frame – drawn to indicate where the embedded controls will appear at runtime	4 = 3D frame
OBJ_DSP\$	Embedded panel Pre-display Logic Option – used to determine the order of execution of the pre-display logic	Values: I1 – Immediately when the embedded panel is detected (default) I2 – Ignore Pre-Display logic
OBJ_FCS\$	Embedded panel Post-display Logic Option – used to determine the order of execution of the post-display logic	P1 – Immediately after the embedded controls are drawn (default) P2 – Prior to the main panel Post-Display logic P3 – After the main panel Post-Display logic P4 – Ignore Post-Display logic
OBJ_SEL\$	Embedded panel On-Exit Logic Option – used to determine the order of execution of the On-Exit logic	E1 – Prior to the main panel On-Exit logic (default) E2 – After the main panel On-Exit logic E3 – Ignore On-Exit logic
OBJ_MSG\$	Not used	
OBJ_HLP\$	Not used	
OBJ_ATTR\$	Not used	
OBJ_IDX\$	Not used	
OBJ_HOTKEY\$	Not used	
OBJ_QRY\$	Embedded Panel Name + Library Name	Formats: 1) Panel name 2) Panel name, Library
OBJ_SEC\$	Not used	
OBJ_STS\$	Not used	
OBJ_GRP\$	Not used	
OBJ_NULL\$	Not used	

Variable	Description	Values
OBJ_TAG\$	Not used	
OBJ_TBL\$	Not used	
OBJ_INP\$	Not used	
OBJ_OUT\$	Not used	
OBJ_VALID\$	Not used	
OBJ_CLASS\$	Not used	
OBJ_TIP\$	Not used	
OBJ_ORIG\$	Not used	
OBJ_FONT\$	Not used	
OBJ_COLOR\$	Not used	
OBJ_LISTBOX_TYPE\$	Not used	
OBJ_SEP\$	Not used	
OBJ_SCRATCH\$	Not used	
OBJ_POPUP\$	Not used	
OBJ_SIZING\$	Not used	
OBJ_LOGIC1\$	Not used	
OBJ_LOGIC2\$	Not used	
OBJ_POPUP_LOGIC\$	Not used	
OBJ_QRY_BITMAP\$	Not used	
OBJ_QRY_WIDTH	Not used	
OBJ_QRY_TIP\$	Not used	
OBJ_QRY_ATTR\$	Not used	
OBJ_EXTENSION\$	Not used	
OBJ_DEMAND\$	Not used	
OBJ_DEMAND_LOGIC\$	Not used	
OBJ_BACKGROUND_LOGIC\$	Not used	
OBJ_PERSISTENCE\$	Not used	
OBJ_NOTES\$	Comments field	Formats: Fixed/Exp/Msg Lib Ref Note: An = will precede the Exp or Msg Lib Ref
OBJ_TBL_LEN	Not used	
OBJ_TVLINE_COLOR\$	Not used	
OBJ_AUTOSZ_WIDTH\$	Not used	
OBJ_AUTOSZ_HEIGHT\$	Not used	
OBJ_AUTOMATION_TEXT\$	Not used	
OBJ_HILIGHT_COLORS\$	Not used	
OBJ_PROPS\$	Not used	
OBJ_VISUAL_CLASS\$	Not used	

Menu bar Key Layout (for record 'M ##') < This record is Obsolete>**Record Key:** Panel Name (1,12) + 'M ##' (13,4) with ## = sequence numbers 1-99

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Not used			
OBJ_TXT\$	Element List Suppress Help Option			Contains list of items in order. Suppress Help if 1st position valued '-', default is No Suppress Help.
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Menus Top Level Layout (for record 'M000')

(applies to system menus and popup menus)

Record Key: Panel Name (1,12) + 'M000' (13,4)

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Menu Type			P (popup menu) Null if standard menu
OBJ_TXT\$	<Top level>			Indicates top level identifier
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Type			Group or Item
OBJ_MSG\$	Suppress Help			' ' Suppress Help default is No Suppress Help
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_ST\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Menu Default Colours - Text Background and Left Edge portion of the menu			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLOR\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Menu Item Details Layout (for record 'M###')

(applies to system menus and popup menus)

Record Key: Panel Name (1,12) + 'M###' (13,4) with ### = sequence numbers 1-999

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Menu Type			P (popup menu) Null if system menu
OBJ_TXT\$	Item Description			
OBJ_VAL\$	Item State			I or null = Show Item D = Disable Item S = Suppress Item
OBJ_TAB	Not used			
OBJ_DEFS\$	Menu Link			L
OBJ_DSP\$	External Logic			
OBJ_FCS\$	External Logic Type			X = Execute P = Perform I = Ignore
OBJ_SEL\$	Logic Type + Function or Value of G if menu group			Menu Type is an Item: Logic Type + Logic action code + parameters (see logic table) Menu Type is a Group: G = Group
OBJ_MSG\$	Line Separator			Line Separator if valued '; default is No Line Separator
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Menu Level			Associated order stack numbers
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Bitmaps (Normal and Checked State)			

Variable	Description	Exp	Msg	Values
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Text Background Colour for Item			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

BOX / FRAME Layout (Obj_Type\$="x")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			x
OBJ_TXT\$	Text	Y	Y	
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Style	Y		Valid values are: 1 Standard text mode 2 Recessed 3 Raised 4 3D
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Attribute + Other Mnemonics			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$ Not used	Not used			
OBJ_QRY\$ Not used	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

BUTTON Layout (Obj_Type\$="B")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			B
OBJ_TXT\$	Text/Bitmap/Transparency option	Y	Y	<p><i>Format:</i> Text {!bitmap#1,G !bitmap#2,G}</p> <p><i>Where:</i> Bitmap#1 for 'Normal' Bitmap#2 for 'Pushed' <i>Transparency options:</i> "" - None T - Pixel sets transparency G - 'Light Gray' is transparent</p>
OBJ_VAL\$	Not used			
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= no tab stop)
OBJ_DEF\$	Default Push			Default Push is 'YES' if valued 1, default is no
OBJ_DSP\$	Prior Create Logic			See Logic Table
OBJ_FCS\$	On Focus Logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			<p>Security access level + "," + security class + ","</p> <p><i>Security access levels:</i> F = Full access V = View only</p> <p><i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"</p>
OBJ_STS\$	Field Attributes/Status			See Attributes Table

Variable	Description	Exp	Msg	Values
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Adjacent Flag			1 – Yes 0 or "" – No (default)
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Popup Menu Object			1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			See Logic Table
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Text /name exposed to	Y	Y	

Variable	Description	Exp	Msg	Values
	external automation tools			
OBJ_HIGHLIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

CHART Layout (Obj_Type\$="H")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			H
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	Not used			
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR	Attribute			'MODE'(x) + 'FONT'(x) Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group.

Variable	Description	Exp	Msg	Values
OBJ_NULL\$	Contains chart effect and the chart type			Format is: Chart effect (2D or 3D+chart type) Chart types: Area, Bar, Column, Line, Pie, Ribbon, Scatter or Stack
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground and Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Column Separator			Select one of the pre-loaded options or enter a new value. Selections: <Std> , / \ ? ; & * \$01\$ - \$19\$ \$1A\$ - \$1F\$
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Popup Menu Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Popup Menu Logic			See logic table

Variable	Description	Exp	Msg	Values
	– executes before popup menu is drawn			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_T EXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Contains list of control properties			Control properties are separated by a hex 01. The property definition consists of the property name + “=” + property value. Property value can be fixed or expression. An “=” will precede the expression. Used for the following Chart properties: Bitmap, Bitmap Position, Margin (Bottom), Margin

Variable	Description	Exp	Msg	Values
				(left), Margin (right), Margin (top), Footer, Maximum Range, Minimum Range, Proportion (depth/width), Proportion (height/width), Proportions To Margins, Title1, Title2, X-Axis Location, X-Axis Title, Y-Axis Location, Y-Axis Title, Z-Axis Location, Z-Axis Title, Face Colour (Back), Face Colour (Bottom), Face Colour (Left)
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

CHECKBOX Layout (Obj_Type\$="C" or Obj_Type\$="3")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			C – Check box 3 – Tri-state
OBJ_TXT\$	Text/Bitmap/ Transparency option	Y	Y	<i>Format:</i> Text {!bitmap#1,G !bitmap#2,G bitmap#3,T} with bitmap#1 for 'Bitmap Off State' bitmap#2 for 'Bitmap On State' bitmap#3 for 'Bitmap 3rd State' Bitmap <i>Transparency options:</i> "" - None T - Pixel sets transparency G - 'Light Gray' is transparent Button alignment is right side when ':' is in last position of field, default is left side.
OBJ_VAL\$	Default Setting	Y		Use to set initial default value
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= no tab stop)
OBJ_DEF\$	Not used			
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus Logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" +

Variable	Description	Exp	Msg	Values
				security class + ”,” <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> “F:ADMIN,V:USER1,V:USE R2,”
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Not used			
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Values			<i>Format:</i> 1st position is ‘Off State’, 2nd position is ‘On State’, 3rd position is ‘3RD State’.
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Data Class Name			Retrieved from ‘Providex.Dcl’
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foregro und Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Popup Menu Object			1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			See Logic Table
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

DROP/LIST BOX Layout (Obj_Type\$="DLVX")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			Drop box, List box, Variable list box, Variable drop boX
OBJ_TXT\$	List of Values	Y		Fixed Format: cat{01}dog{01}mouse{0 1}
OBJ_VAL\$	Default Setting	Y		
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= tab stop is off)
OBJ_DEF\$	Auto load Trigger Trigger Variables Trigger Test			<i>Format:</i> 1st char="q" then 'variables' and 'test' separated by "," Values are "ON" - 1st character="q", "OFF" - not valued From 2nd char to end or "," separator From "," separator to end
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus Logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	State Indicators (Tree View Control only)			<i>Format:</i> State Bitmaps + \$01\$ + State Values State Bitmaps: Bitmap name followed by the pipe character State Values: Autostate + "," + Cascadestate

Variable	Description	Exp	Msg	Values
	Input length (Variable list/drop boxes)	Y		Valid entries: 0-15
OBJ_HOTKEY\$	[Alt] Key			Values A-Z, 0-9
OBJ_QRY\$	Query Related Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V: USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group.
OBJ_NULL\$	Formatted Info for List box only			<i>Format:</i> 1st position of Field options field width, special options, separated by commas. Valid Field options are: Left Right Center Numeric Blanks Valid Special Options are: / new line S skip field
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Internal Value (translation table)	Y		
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Data Class Name			Retrieved from 'Providex.Dcl'
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	List box Type			For List boxes only Valid codes are: e Tree view F Formatted L List view S Standard
OBJ_SEP\$	Column Separator			List Boxes Only (Formatted/List View/Tree View) Select one of the pre-loaded options or enter a new value. Selections: <Std> , / \ ? : & * \$01\$ - \$19\$ \$1A\$ - \$1F\$
OBJ_SCRATCH\$	Format Info			For List boxes only Preserved list of List Box info for different views. 1st pos =Hex \$01\$ 2nd pos= List box Type from obj_listbox_type\$ rest = format info le.\$01\$+"L"+format info
OBJ_POPUP\$	Popup Menu Object			1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Pre-load logic to execute before list box is loaded (Smart List Boxes only)			See Logic Table
OBJ_LOGIC2\$	Post-load logic to execute			See Logic Table

Variable	Description	Exp	Msg	Values
	after list box is loaded (Smart List Boxes only)			
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			See logic table
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Load On Demand flag			0 or null – No 1 – Yes (Standard/Formatted/Lis t View list boxes only)
OBJ_DEMAND_LOGIC\$	Load on demand logic			See Logic Table (Standard/Formatted/Lis t View list boxes only)
OBJ_BACKGROUND_LOGIC\$	Background Loading Logic			See logic table
OBJ_PERSISTENCE\$	Object Persistence Flag			0 – Default 1 – Always 2 – Never
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Translation table length. Not applicable to tree views and variable list/drop boxes)			Valid entries: 1-9999 Default is 1 (automatically set to zero if an expression is used for the translation table)
OBJ_TVLINE_COLOR\$	Display colour of connecting lines. (tree view only)			See colour table.
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Highlight colour 1 – Background colour alternating lines + Highlight colour 2 – Background colour alternating 3 lines (List boxes – standard, formatted, list view, report view)			See colour table Highlight colour 1; Highlight colour 2
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel

Variable	Description	Exp	Msg	Values
				is processed.

EXTERNAL-VBX Layout (Obj_Type\$="E")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			E
OBJ_TXT\$	List of Values			
OBJ_VAL\$	Not used			
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0=tab stop is off)
OBJ_DEF\$	VBX Events and Logic			1 Character action code + parameters: Valid codes: Call, Execute, Link, Perform, End, Ignore
OBJ_DSP\$	Not used			
OBJ_FC\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Message Line			
OBJ_HLP\$	Help			
OBJ_ATTR\$	Properties			List of Properties
OBJ_IDX\$	Tool Type			Select from list
OBJ_HOTKEY\$	[Alt] Key			Values A-Z, 0-9
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Groups			A comma must separate each group.
OBJ_NULL\$	Not used			
OBJ_TAG\$	User defined tag field			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

FONTED TEXT Layout (Obj_Type\$="F")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			F
OBJ_TXT\$	Text	Y	Y	
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Attribute + Other Mnemonics			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table

Variable	Description	Exp	Msg	Values
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

GRID Layout (Obj_Type\$="G")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			G
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= tab stop is off)
OBJ_DEF\$	Resizable Gridlines			Set if position 1 = 1 Set if position 2 = 1
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus Logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute			'MODE'(x) + 'FONT'(x) Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Static Columns			Static column number: 0-99
OBJ_HOTKEY\$	[Alt] Key			Values A-Z, 0-9
OBJ_QRY\$	Query Related Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group.
OBJ_NULL\$	Column Header Defn			<i>Format:</i>

Variable	Description	Exp	Msg	Values
				<p>Header title + cell type + column name + column alignment + column width. A comma separates each column defn.</p> <p>Header Title: Fixed/Expression (enclosed in [] brackets)</p> <p>Cell Type: Retrieved from the 'CellTypeList' property (a : colon will follow the cell type)</p> <p>Column Name: String or Numeric variable - () the cell type and column name will be enclosed in () brackets</p> <p>Alignment: Left Right Center</p> <p>Width: Fixed/Expression (numeric)</p> <p><i>Example:</i> [Id](Normal:Cst_Id\$)L10,[Name](Normal:Cst_name\$)L20</p>
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Data Class Name			Retrieved from 'Providex.Dcl'
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Column Separator			Select one of the pre-loaded

Variable	Description	Exp	Msg	Values
				options or enter a new value. Selections: <Std> , / \ ? ; & *
OBJ_SCRATCH\$	Auto load Trigger Trigger Variables Trigger Test			<i>Format:</i> 1st char="q" then 'variables' and 'test' separated by " ;" Values are "ON" - 1st character="q", "OFF" - not valued From 2nd char to end or " ;" separator From " ;" separator to end
OBJ_POPUP\$	Popup Menu Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Pre-load logic to execute before grid is loaded (Smart Grids only)			See Logic Table
OBJ_LOGIC2\$	Post-load logic to execute after grid is loaded (Smart Grids only)			See Logic Table
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			
OBJ_QRY_BITMAP\$	Query Bitmap Name			
OBJ_QRY_WIDTH	Width of query button			
OBJ_QRY_TIP\$	Query Tip	Y	Y	
OBJ_QRY_ATTR\$	Query attributes			F = Flat button

Variable	Description	Exp	Msg	Values
				B = Bitmap button
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Object Persistence Flag			0 – Default 1 – Always 2 – Never
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

IMAGE/PICTURE Layout (Obj_Type\$="I")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			I
OBJ_TXT\$	Picture Path	Y		
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Graphic display			Valid values are: 1= ASIS 2 = Centered 3 = Scaled 4 = Tiled 5 = Halftone 6 = Align to top left (preserve aspect ratio) 7 = Centered (preserve aspect ratio)
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_ST\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group name
OBJ_NULL\$	Image Transparency			Transparency options: "" - None

Variable	Description	Exp	Msg	Values
				T - Pixel sets transparency G - 'Light Gray' is transparent
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

MULTI-LINE Layout (Obj_Type\$="M")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			M
OBJ_TXT\$	Input Format	Y		
OBJ_VAL\$	Initial Value	Y	Y	
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= no tab stop)
OBJ_DEF\$	Not used			
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Attribute + other Mnemonics.			\$ = Password attribute or 'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Input Length	Y		
OBJ_HOTKEY\$	[Alt] Key			Values A-Z, 0-9
OBJ_QRY\$	Query Related Object			Formats: 1) Panel name 2) Panel name, Library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3) 5) Spinner info (^,increment #, start #, end#)
OBJ_SEC\$	Security access			Security access level + "." + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"

Variable	Description	Exp	Msg	Values
OBJ_STS\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Empty Value			
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Validator Program			Input validation: <Program Name>;<Label>
OBJ_OUT\$	Formatter Program			Output validation: <Program Name>;<Label>
OBJ_VALID\$	Rules	Y		Validation rules, separated by commas
OBJ_CLASS\$	Data Class Name			Retrieved from 'Providex.Dcl'
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Associated object type			Q (or null) – Query C - Calendar
OBJ_SEP\$	Separator			Character to be used between lines in a multi-line input field Select one of the pre-loaded options or enter a new value. Selections: <Std> , / \ ? ; & * \$01\$ - \$19\$ \$1A\$ - \$1F\$
OBJ_SCRATCH\$	Auto load Trigger			<i>Format:</i> 1st char="q" then 'variables' and 'test' separated by "; Values are "ON" - 1st character="q", "OFF" -

Variable	Description	Exp	Msg	Values
	Trigger Variables			not valued
	Trigger Test Text to display if read fails	Y	Y	From 2nd char to end or ":" separator From ";" separator to end \$01\$ + Text
OBJ_POPUP\$	Popup Menu Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Pre-load logic to execute before multi-line is loaded (Smart Multi-Lines only)			See Logic Table
OBJ_LOGIC2\$	Post-load logic to execute after multi-line is loaded (Smart Multi-Lines only)			See Logic Table
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			
OBJ_QRY_BITMAP\$	Query Bitmap Name			
OBJ_QRY_WIDTH	Width of query button			
OBJ_QRY_TIP\$	Query Tip	Y	Y	
OBJ_QRY_ATTR\$	Query attributes			F = Flat button B = Bitmap button
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Object Persistence Flag			0 – Default 1 – Always 2 – Never
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	On focus resize width			Format mask: ###!00
OBJ_AUTOSZ_HEIGHT\$	On focus resize height			Format mask: ###!00
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is

Variable	Description	Exp	Msg	Values
				validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

OCX Controls Layout (Obj_Type\$="o")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Control Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			o
OBJ_TXT\$	OCX Name (Version-specific)			
OBJ_VAL\$	Property List			<p><i>Format:</i></p> <p><parent object id>+” ’ ”+<property name>+”=”+<property value>+\$00\$ (a \$00\$ will separate each property definition).</p> <p><i>Sub-objects format:</i></p> <p><parent object id>+” ’ ”+<sub-object id>+” ’ ”+<property name>+”=”+<property value>+\$00\$</p> <p>A \$01\$ will separate each sub-object list.</p> <p><i>Example:</i></p> <p>"COM_4'_Value=8/11/2004"+\$001\$+</p> <p>"COM_4'GRIDFONT'Bold=1"+\$00\$+"Italic=1"+\$00\$+"Name=Comic Sans MS"+\$0001\$</p> <p><i>Note:</i> The <property value> can be a fixed value or an expression. If it is an expression there will be a = in the first character.</p>
OBJ_TAB	Not used			
OBJ_DEF\$	Event List and Logic			<p><parent object id>+” ’ ”+<event name>+”=”+<event function>+\$00\$</p> <p><i>Sub-objects format:</i></p> <p><parent object id>+” ’ ”+<sub-</p>

Variable	Description	Exp	Msg	Values
				<p>object id>+''"+<event name>+"="+<event function>"+\$00\$</p> <p>A \$01\$ will separate each sub-object list.</p> <p><i>Example:</i></p> <p>"COM_4'Click=XPRINT "Day is "+COM_4.CTL'DAY\$"+\$0001\$</p> <p>The event function consists of a 1 character action code followed by the parameter. See Logic Table.</p>
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Groups			A comma must separate each group.
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Alternate OCX names			OCX generic names separated by a ; semi-colon
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)

Variable	Description	Exp	Msg	Values
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

RADIO BUTTON Layout (Obj_Type\$="R")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			R
OBJ_TXT\$	Text Bitmaps Bitmap Alignment Button Alignment	Y	Y	Format: Text {!bitmap#1 !bitmap#2} with Bitmap#1 for 'Bitmap Normal' Bitmap#2 for 'Bitmap On Push' Bitmap alignment is bitmap on left or right side of text. Button alignment is right side when ':' is in last position of field, default is left side.
OBJ_VAL\$	Not used			
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0= no tab stop)
OBJ_DEF\$	Initially On			Initially On is 'YES' if valued 1, default is not valued.
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Radio Button Index			Values 1-127
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," Security access levels: F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:U SER2,"
OBJ_STS\$	Field Attributes/Status			See Attributes Table

Variable	Description	Exp	Msg	Values
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Not used			
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Tables			Translate table and Logical value
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Data Class			Retrieved from 'Providex.Dcl'
OBJ_TIP\$	Tool Tip	Y	Y	
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Popup Menu Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			See Logic Table
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

SCROLLBAR Layout (Horizontal Obj_Type\$="-", Vertical Obj_Type\$="|")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			_ = Horizontal = vertical
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB.	Tab Stop			0 through 999. Initially set to 1000. (0= no tab stop)
OBJ_DEF\$	Not used			
OBJ_DSP\$	Post Create Logic			See Logic Table
OBJ_FCS\$	On Focus logic			See Logic Table
OBJ_SEL\$	On Change Logic			See Logic Table
OBJ_MSG\$	Message Line	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_ST\$	Field Attributes/Status			See Attributes Table
OBJ_GRP\$	Groups			A comma must separate each group
OBJ_NULL\$	Not used			
OBJ_TAG\$	User defined tag field	Y		
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Tool Tip	Y	Y	

Variable	Description	Exp	Msg	Values
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Text /name exposed to external automation tools	Y	Y	
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

SELECTOR/FOLDER Layout (Obj_Type\$="S")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			S
OBJ_TXT\$	Tab Information (Panel Name/ Title of Tab/ Suppress Tab flag)	Y (Tab Title only)	Y (Tab Title only)	Panel name+"="+Tab Title+\$01\$+Suppress Tab Flag+\$00\$ (Suppress tab flag 0 or 1)
OBJ_VAL\$	Preserve Controls Flag			0 or 1
OBJ_TAB	Tab Stop			0 through 999. Initially set to 1000. (0=no tab stop)
OBJ_DEF\$	Tab colours (numeric colour codes only)			Numeric colour code format: 00
OBJ_DSP\$	Execute Pre-Display logic one time only flag (a flag will be set for each tab defined)			0 or 1
OBJ_FCS\$	Execute Post-Display logic one time only flag (a flag will be set for each tab defined)			0 or 1
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Attribute + Other Mnemonics			'MODE'(x) + 'FONT'(x) + other Mnemonics. Colors stored in MODE. "*" = fixed font.
OBJ_IDX\$	Tab Width			Enter over-riding width of each tab, or default will calculate width automatically.
OBJ_HOTKEY\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Tab Position			T Top (default) B Bottom L Left R Right
OBJ_TAG\$	Not used			
OBJ_TBL\$	Include scroll buttons			0 or 1
OBJ_INP\$	Fill pattern and fill colour2 for tabs , comma separates the pattern and colour / separates each tab definition			See Colour Table <i>Example:</i> Tab1 pattern + "," + Tab1 colour + "/" + Tab2 pattern + "," + Tab2 colour + "/"
OBJ_OUT\$	Fill colour1 for Tabs separated by /			See Colour Table <i>Example:</i> Tab1 colour + "/" + Tab2 colour + "/" + Tab3 colour + "/"
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background and Foreground colours of control			See colour table.
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Tabless			Tabless Flag:

Variable	Description	Exp	Msg	Values
	Folder flag and Frame Style			0 or 1 Frame Style (Fixed/Expression) Fixed Values: 0 - None 2 - Recessed Frame 3 - Raised Frame 4 - 3D frame <i>Note: A comma precedes the frame style.</i>
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HIGHLIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Visual Class Name	Y		The assigned value is validated against the 'Providex.ccl' file. Expressions are not validated until the panel is processed.

TEXT Layout (Obj_Type\$="T")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			T
OBJ_TXT\$	Text	Y	Y	
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Mnemonics			Selected + other entered Mnemonics Selected Mnemonics are: 'BB', 'BR', 'SB', 'BU'.
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

ARC Layout (Obj_Type\$="(")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			(
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN Info S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C - See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + ";" <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V:USER2,"
OBJ_ST\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	Radius/Ratio			Radius/Ratio criteria Format: R1,R2 R1-Radius values 0-255 R2-Ratio values 0-255
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Angles			Angles Format: A1,A2 A1 - Start angle values 0-360 A2 - End angle values 0-360
OBJ_OUT\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/ Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

CIRCLE Layout (Obj_Type\$="O")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			O
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN Info S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C - See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Fill pattern/colours			<i>Format:</i> Fill Pattern + “,” + Fill Colour1 + “,” + Fill Colour2 See Colour Table
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ”.” + security class + ”,” <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> “F:ADMIN,V:USER1,V: USER2,”
OBJ_STS\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	Radius/Ratio			Radius/Ratio criteria format: R1,R2 R1-Radius values 0-255 R2-Ratio values 0-255

Variable	Description	Exp	Msg	Values
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

LINE Layout (Obj_Type\$="/")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			/
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN Info S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C - See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ":" + security class + "," <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> "F:ADMIN,V:USER1,V: USER2,"
OBJ_STS\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	X,Y Values			X,Y co-ordinates separated by a , comma
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

PIE Layout (Obj_Type\$="")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type)
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN Info S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C - See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Fill pattern/colours			Format: Fill Pattern + “,” + Fill Colour1 + “,” + Fill Colour2 See Colour Table
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + ”.” + security class + “,” <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> “F:ADMIN,V:USER1,V: USER2,”
OBJ_STS\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	Radius/Ratio			Radius/Ratio criteria Format: R1,R2

Variable	Description	Exp	Msg	Values
				R1-Radius values 0-255 R2-Ratio values 0-255
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Angles			Angles Format: A1,A2 A1-Start angle values 0-360 A2-End angle values 0-360
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

POLYGON Layout (Obj_Type\$="^")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			^
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C – See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Fill pattern/colours			Format: Fill Pattern + “,” + Fill Colour1 + “,” + Fill Colour2 See Colour Table
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + “:” + security class + “,” <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> “F:ADMIN,V:USER1,V:U SER2,”
OBJ_ST\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	X,Y Values			X,Y co-ordinates separated by a , comma

Variable	Description	Exp	Msg	Values
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

RECTANGLE Layout (Obj_Type\$="[")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Name			
OBJ_C	Column			
OBJ_L	Length			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Type			[
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	PEN Info S - Style W - Width C - Colour			Pen information Format: S,W,C S - values 0-5 W - values 0-255 C – See Colour Table
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Fill pattern/colours			Format: Fill Pattern + “,” + Fill Colour1 + “,” + Fill Colour2 See Colour Table
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Security access			Security access level + “:” + security class + “,” <i>Security access levels:</i> F = Full access V = View only <i>Example:</i> “F:ADMIN,V:USER1,V:USER2,”
OBJ_STS\$	Attributes			Valid values: H Hidden
OBJ_GRP\$	Not used			
OBJ_NULL\$	Radius			Values: 0-255
OBJ_TAG\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Custom Sizing Options			Sizing Option + Movement Option (See Custom Sizing Table)
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Comments field	Y	Y	
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query Header (Obj_Type\$="Q")

(Last 4 positions of key are '0000')

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Logical File / Path Name / Table Name			Logical file name or Path name or Table name
OBJ_C	Column			
OBJ_L	Line			
OBJ_W	Width			
OBJ_H	Height			
OBJ_TYPE\$	Object Type			Q
OBJ_TXT\$	Query Title	Y	Y	
OBJ_VAL\$	Sort Key Number			
OBJ_TAB	Auto tab Flag			Value 1=on, 0=off
OBJ_DEF\$	Physical File name / Database Name	Y		Name of physical file or database name to be used
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Message	Y	Y	
OBJ_HLP\$	Help	Y	Y	
OBJ_ATTR\$	Deprecated			
OBJ_IDX\$	User DD Flag			User DD flag values are: 0=standard, >0=User DD Index
OBJ_HOTKEY\$	Date Stamp			Time/Date stamp of last update
OBJ_QRY\$	Maint.Prog/Panel			
OBJ_SEC\$	Not used			
OBJ_STS\$	Field Attributes/Status			Valid values for Query Header are: = grey/white display + Centered Panel R Relative Panel
OBJ_GRP\$	Table Key			Table Key Definition
OBJ_NULL\$	Field Attributes/Status			Valid values for Query Header are: C Case Sensitive 'Start At' value P No Print button K No Sort Key V No Return Value R Read by record S Switch scroll bar for large file

Variable	Description	Exp	Msg	Values
				U Uppercase 'Start At' value L Lowercase 'Start At' value M Sort by Column O ODBC Access B Use OK/Cancel buttons
OBJ_TAG\$	Number of static Columns			
OBJ_TBL\$	Connect Option			Connect Option for Database access
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Return Value Definition			Value of definition
OBJ_TIP\$	File Id Prefix			Prefix to use
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Font Details			See Font Table
OBJ_COLOR\$	Background/Foreground Colours			See Colour Table
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Display line height			Integer, measured in lines. Default is empty (corresponds to 1 line high)
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query Element Definition (Obj_Type\$="E")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Element Name			Name of element
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Column width			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			E
OBJ_TXT\$	Column Title	Y	Y	
OBJ_VAL\$	Data Type			
OBJ_TAB	Not used			
OBJ_DEF\$	Column Format	Y		
OBJ_DSP\$	Sort Algorithm			Sort Algorithm for column
OBJ_FCS\$	Sort Key Length			Length of key to be used for sorting
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Column Query			
OBJ_SEC\$	Not used			
OBJ_STS\$	Tip Flags			Tip message flags for Numeric Values: T Total A Average M Minimum X Maximum
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Format Program	Y	Y	
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Element			

Variable	Description	Exp	Msg	Values
	Prefix			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOUR\$	Not used			
OBJ_LISTBOX_TYPE\$	Reserved			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Reserved			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query Formula Definition (Obj_Type\$="+")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Formula Definition			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Column width			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			+
OBJ_TXT\$	Column Title	Y	Y	
OBJ_VAL\$	Data Type			
OBJ_TAB	Not used			
OBJ_DEF\$	Column Format	Y		
OBJ_DSP\$	Sort Algorithm			Sort Algorithm for column
OBJ_FCS\$	Sort Key Length			Length of key to be used for sorting
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Tip Flags			Tip message flags for Numeric Values: T Total A Average M Minimum X Maximum
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query Selection Definition (Obj_Type\$="S")

(Last 4 positions of Key = 'SLCT')

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			S
OBJ_TXT\$	Range From:	Y		Selection Criteria 'From'
OBJ_VAL\$	Range To:	Y		Selection Criteria 'To'
OBJ_TAB	Not used			
OBJ_DEF\$	Key Prefix	Y		
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Selection Logic			1 Character action code + parameters: Valid codes: Call, Test, Ignore
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Flags			Valid Flags: S Apply Prefix/Range to 'Sort By' Key
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query User Definition (Obj_Type\$="U")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C Not used	Not used			
OBJ_L Not used	Not used			
OBJ_W Not used	Not used			
OBJ_H Not used	Not used			
OBJ_TYPE\$	Object Type			U
OBJ_TXT\$	Not used			
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Not used			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$d	Not used			
OBJ_IDX\$	Element name			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY Record Definitions Layout

Query Link File Definition (Obj_Type\$="O")

Key Sequence is last 4 positions of Key

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Manual file name or Path Name or Table Name			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	ObjectType			O
OBJ_TXT\$	Physical File name / Database Name	Y		
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Key Data Definition			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Table Key Definition			
OBJ_NULL\$	Field/Attributes			1 Character action code + parameters: Valid codes: R = Read by record
OBJ_TAG\$	Not used			
OBJ_TBL\$	Database Connection Option			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_TIP\$	File ID Prefix			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY LIST Record Definitions Layout

Query List HEADER (Obj_Type\$="q")
 (Last 4 positions of key is '0000')

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Logical File/ Path Name/ Table Name			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			q
OBJ_TXT\$	Not used			
OBJ_VAL\$	Sort Key Number			
OBJ_DEF\$	Physical File name/ Database Name	Y		
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	User DD Flag			User DD flag values are: 0=standard, >0=User DD Index
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Table Key Definition			
OBJ_NULL\$	Field Attributes/Status			Valid values for Query List Header are: M Sort by Column O ODBC access
OBJ_TAG\$	Not used			
OBJ_TBL\$	Connect Option for database access			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_TIP\$	File Id Prefix			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY LIST Record Definitions Layout

Query List ELEMENT Definition (Obj_Type\$="E")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Element Name			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Column width			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			E
OBJ_TXT\$	Column Title	Y	Y	
OBJ_VAL\$	Data Type			
OBJ_TAB	Not used			
OBJ_DEF\$	Column Format	Y		
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Format Program	Y		
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Element Prefix			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY LIST Record Definitions Layout

Query List FORMULA Definition (Obj_Type\$="+")

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Formula Definition			Definition of Formula
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Column width			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			+
OBJ_TXT\$	Column Title	Y	Y	
OBJ_VAL\$	Data Type			
OBJ_TAB	Not used			
OBJ_DEF\$	Column Format	Y		
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY LIST Record Definitions Layout

Query List SELECTION Definition (Obj_Type\$="S")

(Last 4 positions of Key = 'SLCT')

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Not used			
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			S
OBJ_TXT\$	Range From:	Y		Selection Criteria 'From'
OBJ_VAL\$	Range To:	Y		Selection Criteria 'To'
OBJ_TAB	Not used			
OBJ_DEF\$	Key Prefix	Y		
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Selection Logic			1 Character action code + parameters: Valid codes: Call, Test, Ignore
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Not used			
OBJ_NULL\$	Not used			
OBJ_TAG\$	Not used			
OBJ_TBL\$	Not used			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	Not used			
OBJ_ORIG\$	Not used			
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

QUERY LIST Record Definitions Layout

Query List LINK File Definition (Obj_Type\$="O")

(Key Sequence is last 4 positions of Key)

Variable	Description	Exp	Msg	Values
OBJ_NME\$	Manual Path/ Logical File/ Table Name			Name of manual path or Name of Logical File or Table Name
OBJ_C	Not used			
OBJ_L	Not used			
OBJ_W	Not used			
OBJ_H	Not used			
OBJ_TYPE\$	Object Type			O
OBJ_TXT\$	Physical File / Database Name	Y		Physical file name or Database name
OBJ_VAL\$	Not used			
OBJ_TAB	Not used			
OBJ_DEF\$	Key Data Definition			
OBJ_DSP\$	Not used			
OBJ_FCS\$	Not used			
OBJ_SEL\$	Not used			
OBJ_MSG\$	Not used			
OBJ_HLP\$	Not used			
OBJ_ATTR\$	Not used			
OBJ_IDX\$	Not used			
OBJ_HOTKEY\$	Not used			
OBJ_QRY\$	Not used			
OBJ_SEC\$	Not used			
OBJ_STS\$	Not used			
OBJ_GRP\$	Table Key Definition			
OBJ_NULL\$	Field/Attributes			1 Character action code + parameters: Valid codes: R Read by record
OBJ_TAG\$	Not used			
OBJ_TBL\$	Database Connection Option			
OBJ_INP\$	Not used			
OBJ_OUT\$	Not used			
OBJ_VALID\$	Not used			
OBJ_CLASS\$	Not used			
OBJ_TIP\$	File ID Prefix			
OBJ_ORIG\$	Not used			

Variable	Description	Exp	Msg	Values
OBJ_FONT\$	Not used			
OBJ_COLOR\$	Not used			
OBJ_LISTBOX_TYPE\$	Not used			
OBJ_SEP\$	Not used			
OBJ_SCRATCH\$	Not used			
OBJ_POPUP\$	Not used			
OBJ_SIZING\$	Not used			
OBJ_LOGIC1\$	Not used			
OBJ_LOGIC2\$	Not used			
OBJ_POPUP_LOGIC\$	Not used			
OBJ_QRY_BITMAP\$	Not used			
OBJ_QRY_WIDTH	Not used			
OBJ_QRY_TIP\$	Not used			
OBJ_QRY_ATTR\$	Not used			
OBJ_EXTENSION\$	Not used			
OBJ_DEMAND\$	Not used			
OBJ_DEMAND_LOGIC\$	Not used			
OBJ_BACKGROUND_LOGIC\$	Not used			
OBJ_PERSISTENCE\$	Not used			
OBJ_NOTES\$	Not used			
OBJ_TBL_LEN	Not used			
OBJ_TVLINE_COLOR\$	Not used			
OBJ_AUTOSZ_WIDTH\$	Not used			
OBJ_AUTOSZ_HEIGHT\$	Not used			
OBJ_AUTOMATION_TEXT\$	Not used			
OBJ_HILIGHT_COLORS\$	Not used			
OBJ_PROPS\$	Not used			
OBJ_VISUAL_CLASS\$	Not used			

Data Dictionary

A data dictionary is a collection of data definitions used by applications to describe and access a database. The definitions are stored in two ProvideX files:

Providex.ddf – defines all the files (or tables) that belong to the database

Providex.dde – defines specific elements (or columns) that exist within these files

Data Dictionary Header File Layout

File name: Providex.ddf

File type: Keyed

Record Length: 3968

Primary Key: Length: 6 Bytes,

File Sequence Number (1,6)

Where:

File Sequence Number, padded to "000000"

Alternate Key1: Length: 30 Bytes

Logical File Name

Where:

Logical File Name is from field #1.

Alternate Key2: Length: 79 Bytes

Group Code + Logical File Name

Where:

Group Code is from field#8 + field#1

Data Dictionary Header File Layout

Variable	Description	Exp	Msg	Values
NAME\$	Logical File Name			Maximum 30 chars.
PATH\$	Physical File Name	Y		Actual Path and Filename or "=expression"
LST_UPD\$	Last Updated			Date and User ID of Last Update
FILE_PROC\$	Imbedded I/O - Program Name			Name of the program which contains embedded logic to control file access
OWNER\$	Last person changed			User id
LST_PHYS_UPD\$	Physical date file updated			
DESC\$	Description			
GROUP\$	Table grouping			Group name for assigning files to a common theme or application
EXTENSION\$	User/Application extensions			
ALTIOLIST\$	Alternate IOLIST			IOLIST built with Alternate Element Names
SEP\$	Field Separator			Literal string representing the value of the separator e.g. "\$8A\$" for the standard separator "\$00\$" for NULL The special value of "none" is used for files with no field separators. If blank, default separator is \$8A\$
FILE_SEC\$	Security Info			
FILE_NOTES\$	Notes			
OPTIONS\$	File Options			Options that can be set in the OPT= clause of the KEYED directive
VERSION\$	Language Version			
BLOCKSIZE\$	Block Size			Maximum file size in kilobytes

Data Dictionary Elements File Layout

File name: Providex.dde

File type: Keyed

Record Length: 3968

Primary Key: Length: 12 Bytes

File Sequence Number (1,6) + Field Sequence Number (7,6)

Where:

File Sequence Number, padded to "000000" (from DDF file) Field
Sequence Number, padded to "000000"

Alternate Key: Length: 36 Bytes

File Sequence Number (1,6) + Element Name (1,30)

Where:

File Sequence Number, padded to "000000" Element Name (from Field #2)

Data Dictionary Elements File Layout

Variable	Description	Exp	Msg	Values
IOLOBJ\$	IOL Name			IOLIST representation of element. <i>Examples:</i> CST_NAME\$ or CST_ID\$[CHR(6)] or PRODUCT\$[LEN(SEP,SIZ=20)] etc.
NAME\$	Element Name			Maximum Length 30 chars.
DESC\$	Short Description	Y	Y	Maximum Length 80 chars.
TYPE\$	Element Type			"S" for String or "N" for Numeric
LEN\$	Element Length			
OCC\$	Occurrences			Occurrences of field in the form of N:N or N (blank if single occurrence) If defined, Element is an Array.
FORMAT\$	Format of Data			Format of the data in the file: String and Numeric: "D" - Delimited -- 'SEP' separated "F" - Fixed Length "P" - Padded length "S" - Substring "L" - Last Substring Numeric Only (version 5.0 and newer): "B" - Binary "C" - Decimal "Z" - Decimal Delimited "G" - Signed Fixed "I" - Unsigned Integer
VALID\$	Validation Rules	Y		A comma separated list of rules
PRINT\$	Output Format Mask	Y		Uses Standard Mask Characters
HELP\$	Help Key Format:	Y		Help File;Topic
NOTES\$	General Notes			
KEYDEF\$	Key Definition Format:			KeyNum:Segment:Direction:Length:Offset A colon-separated key definition. Standard KEYED file key definition format, without the []'s. Direction is either "A" for Ascending or "D" for Descending. If element forms portions of more than 1 key, then each definition is COMMA-separated.
QUERY\$	Query Related object	Y		Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
CLASS\$	Data Class			Key into PROVIDEX.DCL - Data Class Definition File
FLAGS\$	Element Flags			"R" - Required Field (element must contain

Variable	Description	Exp	Msg	Values
				data before a record may be written) "X" - External Key (element not to appear in IOLIST) "U" – Convert to uppercase
DFLT\$	Default Field Value	Y	Y	Value used to initialize field
ALT_NAME\$	Alternate Element Name			IOL Name in CPL format, must include Variable type character (\$,%,etc)
USER_TAG\$	User defined Tag Field	Y		
ELEM_SEC\$	Security Info			
DDE_EXT\$	User/Application extensions			

System Defaults Record Layout

System Defaults are default parameters/settings that are to be used for each new library created. These settings can later be overridden for each library through the Library Defaults screen.

File name: 'Providex.nmd'

File Type: Serial File

Variable	Description	Exp	Msg	Values
DEF_SFX\$	Library suffix			Default is EN
DEF_COL\$	Default starting column number to be used for new panels			
DEF_LINE\$	Default starting line number to be used for new panels			
DEF_WIDTH\$	Default panel width to be used for new panels			
DEF_HEIGHT\$	Default panel height to be used for new panels			
DEF_VAL\$	Suppress .Val option			Valid entries: 0 or 1
DEF_3D\$	Default visual mode			"" = Default 0 = 2d 1 = 3d 2 = 4d
DEF_GRID\$	Grid alignment defaults			1 = No Grid 2 = Full Line 3 = Half Line 4 = Quarter 5 = Fifth
DEF_PATH\$	Pathnames			S = Simple R = Relative A = Absolute
DEF_PATHCASE\$	Pathname case			A = Asis L = Lower U = Uppercase

DATA CLASS Record Layout

The NOMADS data class file contains common data elements such as a date field or company code.

File name: 'Providex.dcl'

File type: Keyed

Key=Class Name

Len=30 characters

Variable	Description	Exp	Msg	Values
CLS_NME\$	Class Name			Key (maximum 30 characters)
CLS_DESC\$	Class Description	Y	Y	
CLS_TYPE\$	Internal Data Type			N – Numeric S – String
CLS_LEN\$	Size			
CLS_OBJ_TYPE\$	Control Type			C – Check Box D – Drop Box L – List Box M – Input field R – Radio Buttons
CLS_OBJ_VAL\$	List of values	Y		Drop Boxes, List Boxes only
CLS_OBJ_DEF\$	Initial Value	Y	Y	Expr/Msg applies to multi-lines only
CLS_OBJ_LEN\$	Input Length	Y		
CLS_OBJ_OPT\$	Field Attributes/Status			See Attributes Table
CLS_OBJ_TBL\$	Internal value (translation table)			Check boxes, Drop Boxes, List Boxes and Radio Buttons
CLS_OBJ_FMT\$	Input format	Y		Multi-lines only
CLS_OBJ_NUL\$	Empty value			
CLS_OBJ_INP\$	Validator Program			Input validation: <Program Name>;<Label> (no quotes)
CLS_OBJ_OUT\$	Formatter Program			Output validation: <Program Name>;<Label> (no quotes)
CLS_OBJ_VALID\$	Rules	Y		Validation rules, separated by commas
CLS_OBJ_TAG\$	User Defined Tag Field	Y		
CLS_OBJ_QRY\$	Query Related Object			Formats: 1) Panel name 2) Panel name, Library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3) 5) Spinner info – multi-lines

Variable	Description	Exp	Msg	Values
				only (^,increment #, start #, end#)
CLS_OBJ_POPUP\$	Popup Menu Object			Formats: 1) Panel name 2) Panel name, library 3) *program name 4) =xx\$ (where xx\$ can contain formats 1-3)
CLS_OBJ_POPUP_LOGIC\$	Popup Menu Logic – executes before popup menu is drawn			See Logic Table
CLS_OBJ_QRY_BITMAP\$	Query Bitmap Name			
CLS_OBJ_QRY_WIDTH	Width of query button			
CLS_OBJ_QRY_TIP\$	Query Tip	Y	Y	
CLS_OBJ_QRY_ATTR\$	Query Attributes			F = Flat button B = Bitmap button
CLS_EXTENSION\$	Custom parameters for data class. The custom info is stored in 'Providex.prm' The key for the data class custom info is 'DCL_EXTENSIONS' Use the Application Parameter Configuration utility to add new parameters for the data class.			Parameters may consist of string, numeric and Boolean variables as well as system parameters. A ; semi-colon separates each parameter.
CLS_TBL_LEN	Translation table length (Drop Box/List Box only)	Y		Valid entries: 1-9999 Default is 1 (automatically set to zero if an expression is used for the translation table)

User Defined Colours Layout

The User Defined Colours file contains custom colour definitions. A maximum of 239 definitions can be created. The first 16 colours have been predefined using the standard 16 colours available in ProvideX (0 to 15). The colour number (key) is generated internally starting at Colour #16.

The colour scheme can be defined in terms of RGB values, or one of the existing system colours such as "Light Green".

File name: 'Providex.clr'

File type: Keyed

Key=Colour Number (External key)

Len=3 characters

Variable	Description	Exp	Msg	Values
COLOUR_NUM\$	Class Name			Key (maximum 3 characters) (generated internally by User Defined Colour Utility)
COLOUR\$	Colour selection			Valid selections: <i>Default</i> <i>Black</i> <i>Light Red</i> <i>Light Green</i> <i>Light Yellow</i> <i>Light Blue</i> <i>Light Magenta</i> <i>Light Cyan</i> <i>White</i> <i>Dark Gray</i> <i>Dark Red</i> <i>Dark Green</i> <i>Dark Yellow</i> <i>Dark Blue</i> <i>Dark Magenta</i> <i>Dark Cyan</i> <i>Light Gray</i> <i>Custom</i>
COLOUR_NAME\$	Colour Name			
COLOUR_RED	Red Colour Number (applies to 'Custom' colour selection only)			Values: 0-255
COLOUR_GREEN	Green Colour Number (applies to 'Custom' colour selection only)			Values: 0-255
COLOUR_BLUE	Blue Colour Number (applies to 'Custom' colour selection only)			Values: 0-255

Auto Complete File

ProvideX Auto Complete enables Multi-Line controls to show suggested text based on partially-typed entries. With Auto Complete turned on, a multi-line field can be set up to remember what a user has entered so that the next time they begin to type, it will complete the same word/phrase before they finish typing.

The Auto Complete definitions are stored in a ProvideX keyed file.

File name: 'Providex.auc'
File type: Keyed
Key: Auto Complete Name
Len: 64 characters

Variable	Description	Values
AUC_NAME\$	Name of auto complete entry. Primary key for the file.	Maximum length=64 characters.
AUC_DATAFILE\$	The providex keyed file that contains the words and/or phrases	Maximum length=256 characters.
AUC_KEYNAME\$	The keyname or number that will be used for AutoComplete.	Maximum length=32 characters.
AUC_FIELDNUM	The field number being displayed.	Valid entries: 0-254
AUC_OFFSET	Starting position within the field to be displayed.	Valid entries:0-3839
AUC_LENGTH	The maximum number of characters that will be displayed.	Valid entries: 0-127
AUC_PREFIX\$	The prefix that will be used for searching matching words and/or phrases.	Maximum length=235 characters.
AUC_READONLY\$	Determines if ProvideX will automatically update the keyed file when the user enters a new word and/or phrase.	Default is read only. (Value of 'Y' or 'N')
AUC_AUTOPURGE\$	Providex will	Default is off. (Value of 'Y' or 'N')

Variable	Description	Values
	automatically purge records that expired.	
AUC_EXPIRED	The number of days a given record will be used before expiring. If this is not set or set to 0, the words and/or phrases won't expire.	Maximum length=4 digits.
AUC_HLP\$	Internal variable containing the HLP= format for the auto complete definition.	Example: [AutoComplete]Datafile=Cstfile; Readonly=YES;Expired=10; Autopurge=YES;Prefix=AN;Kno=1; Length=2
AUC_CTL\$	Determines whether the keyed file used to save/retrieve auto-complete entries will reside on the server or the client. Applies to preset (read-only) entries only.	Value of 'Y' or 'N' Y – keyed file will reside on the server N – keyed file will reside on the client
AUC_DISPLAY\$	String specifying the structure of the items displayed in the auto-complete dropbox. The string consists of a combination of literals and fields (or subfields).	Format: Type+TAB+{Value FieldNum+TAB+FieldOffset+TAB+FieldLen}+\$0A\$ [...] Where type will be "L" for literal values, with a Value to be supplied, and "F" for field references, with FieldNum, FieldOffset and FieldLen to be supplied. A Fieldnum of 0 (zero) represents the current key, and a FieldLen of 0 (zero) indicates the remainder of the field value beginning at the specified offset.
AUC_RETVAL\$	String specifying the structure of the value to be returned and loaded into the multi-line. The string consists of a combination of	Format: Type+TAB+{Value FieldNum+TAB+FieldOffset+TAB+FieldLen}+\$0A\$ [...] Where type will be "L" for literal values, with a Value to be supplied, and "F" for field references, with FieldNum, FieldOffset and FieldLen to be

Variable	Description	Values
	literals and fields (or subfields).	supplied. A Fieldnum of 0 (zero) represents the current key, and a FieldLen of 0 (zero) indicates the remainder of the field value beginning at the specified offset.

Calendar Control File

The CALENDAR feature provides a user-friendly way to enter date information into a multi-line input area. When applied to a Multi-Line, it can be used to invoke a month calendar popup that will allow users to pick a date to be inserted automatically into the input area.

The Calendar Control definitions are stored in a Providex keyed file.

File name: 'Providex.cal'
 File type: Keyed
 Key: Calendar Name
 Len: 64 characters

Variable	Description	Values
CALENDAR_NAME\$	Name of calendar entry. Primary key for the file.	Maximum length=64 characters.
CALENDAR_DTE_FORMAT\$	Date formatting rules. If time formatting string is used, the current time will be used. A variable drop box containing some possible DTE options will be used to represent this field in the file maintenance panel. The user can select from this list or enter a new date format. Default is based on the DTE() default rules.	Example: YYYY MM DD %Y %M %D %Y/%M/%DI
CALENDAR_BTN\$	Determines whether the calendar button is created.	Valid options: Y/N. Default is Y.
CALENDAR_BTN_TEXT\$	The text that will appear on the button.	
CALENDAR_BTN_BITMAP\$	The bitmap that will appear on the button. Default is !Date If you only want text on the button then leave this field blank.	
CALENDAR_BMP_POSITION\$	Bitmap position. Left or right of text.	Valid options: L or R. Default is R.
CALENDAR_BMP_TRANSPARENCY\$	Bitmap transparency option.	Valid selections: "" = None T = Pixel sets transparency G = 'Light Gray' is transparent. Default is None.
CALENDAR_BTN_HEIGHT	The height of the button. If set to 0, then the height of the associated MULTI_LINE control	Default is 0.

Variable	Description	Values
	will be applied to the button.	
CALENDAR_BTN_WIDTH	The width of the button. If set to 0, then button will be created using a default button width.	Default is 0.
CALENDAR_HLP\$	This variable will contain the HLP= format for the calendar definition.	Example: [Calendar]Calendar=Yes; Showbutton=Yes;Dte=%Y %Ml %D %h:%m:%s %P; Contents={!Date}

Templates Record Layout

The NOMADS templates file contains default settings for a control such as font, color and various attributes. The settings applied will be based on a theme name.

File name: 'Providex.dfs'
 File type: Keyed
 Key=Theme Name + Control Type
 Len=60 characters

Variable	Description	Exp	Msg	Values
DEF_THEME\$	Theme Name			Key (maximum 30 characters)
DEF_CONTROL_TYPE\$	Control Type			Control type (maximum 30 characters). A drop box containing all the available control types used to represent the field. The drop box will be pre-loaded with the following selections: <i>Default, Button, Check_Box, Chart, Drop_Box, Folder, Fonted_Text, Frame, Grid, List_Box, Multi_Line, Query, Tristate_Box, Vardrop_Box, VarList_Box</i>
DEF_FONT\$	Font			Font details: font name, size and attributes
DEF_TEXTCOLOR\$	Foreground colour			Text/foreground colour
DEF_BACKCOLOR\$	Background colour			Background colour
DEF_ATTRIBUTES\$	Control Attributes			For example, for buttons: Flat-no-border, Transparent. The attributes loaded will depend on the control type.
DEF_DISP_PROPS\$	Display properties			This field will display multiple display properties separated by a \$01\$ Format:<screen iolist variable name>+"="+value+\$01\$ For example: _OBJ_DEF\$=2\$01\$
DEF_OBJ_PROPS\$	Object properties for control			This field will display multiple object properties separated by a \$01\$ Format:<property name>+"="+value+\$01\$ For example: FillColour\$=Light Green\$01\$ (sets the fill colour for a grid control to 'Light Green')

Visual Classes Record Layout

The NOMADS visual class file contains default settings for a control such as font, color and various attributes. Class settings will override theme, library, panel and control level settings.

File name: 'Providex.ccl'

File type: Keyed

Key=Class Name

Len=30 characters

Variable	Description	Exp	Msg	Values
CLASS_NAME\$	Class Name			Key (maximum 30 characters)
CLASS_TYPE\$	Class Type			Control type (maximum 30 characters). A drop box containing all the available control types used to represent the field. The drop box will be pre-loaded with the following selections: <i>Default,,Button,Check_Box,Chart,Drop_Box,Folder,Fonted_Text,Frame,Grid,List_Box,Multi_Line,Query,Tristate_Box,Vardrop_Box,VarList_Box</i>
CLASS_DESC\$	Class Description			
CLASS_FONT\$	Class Font			Font details: font name, size and attributes
CLASS_TEXTCOLOR\$	Foreground colour			Text/foreground colour
CLASS_BACKCOLOR\$	Background colour			Background colour
CLASS_ATTRIBUTES\$	Control Attributes			For example, for buttons: Flat-no-border, Transparent,. The attributes loaded will depend on the control type.
CLASS_DISP_PROPS\$	Display properties			This field will display multiple display properties separated by a \$01\$ Format:<screen iolist variable name>+"="+value+\$01\$ For example: _OBJ_DEF\$=2\$01\$
CLASS_OBJ_PROPS\$	Object properties for control			This field will display multiple object properties separated by a \$01\$ Format:<property name>+"="+value+\$01\$ For example: FillColour\$=Light Green\$01\$ (sets the fill colour for a grid control to 'Light Green')

SQL Key Definitions Layout

The SQL Key Definitions file contains SQL key definitions for a provindex data dictionary table.

The file is created in the same directory as the 'provindex.ddf' and 'provindex.dde' files.

File name: 'Providex.kdf'

File type: Keyed

Key=Logical table name

Key Type=External

Len=64 characters

Description	Values
Table Name	Key (maximum 64 characters) Logical Table name Example: DEPARTMENT
SQL Key definition	Example: KEY=DepartmentCode:C,*NAME:DepartmentCodeKey; KEY=DepartmentName:C,DepartmentCode:C, *NAME:DepartmentNameKey

Security

NOMADS incorporates an *optional* security system based on user IDs and security classifications. Security classes are used to identify the type of user and control access to the system. Each user is identified by a twelve character user id and contains a user name and associated security class list. Every user can be assigned to one or more classes.

The security system is controlled by two files:

PROVIDEX.CLS is used to maintain security classes

PROVIDEX.USR is used to maintain user ids.

System Defaults

By default the system loads the security system with two security classes (ADMIN to add/edit users/classes and USER for general users) and one user id ADMIN (which belongs to class ADMIN, password ADMIN).

Assigning Security Classes to Controls

The security classes can be assigned to controls within the system. A control can have *Full* access for specific classes or *View* only access for specific classes. *Full* access means that the control behaves normally, that is if it is a button it can be pressed, if an input field it can be altered. *View* access means the control only appears on the screen but it cannot be activated or changed. The control will not be presented to users that don't belong to any class that has *Full* or *View* access. This means that if a control has security it will only be presented to users that belong to one of the classes (*Full* or *View* only) associated to it.

Security Classifications Layout

File name: 'Providex.cls'

File Type: Keyed

Key=Security Class

Len=12 characters

Variable	Description	Values
SEC_CLASS\$	Security Classification	Key (maximum 12 characters)
SEC_DESC\$	Description	

Security Users Layout

This file contains

File name: 'Providex.usr'

File type: Keyed

Key=User Id

Len=12 characters

Variable	Description	Values
USR_ID\$	User Id	Key (maximum 12 characters)
USR_NAME\$	Name	
USR_CLASSES\$	User Classifications	Validated against 'Providex.cls' (Each class is separated by a comma)
USR_CHKSUM\$	Checksum values	
USR_CHG_PSWD\$	Reset password flag	0 or 1 (default is 1)
USR_PSWD\$	Password	

Common Tables

Attributes

Buttons/Check Boxes/Grids/Drop Boxes/List Boxes/Multi-lines/Radio Buttons	H Hidden D Disabled 1 Disabled K Auto Tab Skip s Enable Scrolling
Grids/Drop Boxes/List Boxes/Multi-lines	A Automatic (Signal all changes) X Signal on Exit
Multi-lines	E Append Text R Right Justify U Uppercase L Locked C Centered # Numeric I Always Implied Decimal i Never Implied Decimal > Horizontal Scrollbar N Null Transition t Tab Support F Signal when full
Buttons	Y Notification tray
Buttons/Check Boxes/Radio Buttons	F Flat Buttons B Bitmap Button V Hover Colour U Underscore T Transparent f Flat-No border ^ Drop-list button S Signal Only (Don't switch focus) Bitmap Alignment: < Left > Right ~ Top Bottom
Check Box	P Sticky Button Y Notification tray # Numeric
Images	H Hidden * Dynamic
Multi-Lines/List Boxes	B Borderless T Strip Trailing Spaces
Fonted Text	H Hidden
Chart	B Borderless D Disabled H Hidden

<p>List Views/Tree Views</p> <p>List Box Types:</p> <p>S – Standard F – Formatted L – List View e – Tree View</p>	<p># Multiple Selections S,F,L ~ No Height Adjustment S,F r Listview with Report L I Listview with List L p Partial Match L Show Lines e b Suppress Buttons L, e ! Data has bitmaps e q Disable Sorting L, e V Full Line Highlight L v Disable Full Line Highlight L E Direct Edit e</p>
<p>Panels</p>	<p>R Relative R Relative + Centered M Imbedded Menu bar - Minimize Box ^ Always on Top S Status Bar c Child Window H No Title Bar Z Resizeable X Close Box * Resizeable/Auto Scroll x No Close Box m Maximize</p>
<p>Scrollbars</p>	<p>H Hidden D Disabled s Enable Scrolling</p>

Object Types

<p>Panel Header</p>	<p>W = Window, D = Dialogue</p>
<p>Query</p>	<p>Q = Standard Query, q = Query List, E = Query Element, + = Query Formula, S = Query Selection, O = Query Link File</p>
<p>Panel objects</p>	<p>3 = Tri-state, B = Button, C = Checkbox, D = Drop box, E = External vbx, F = Fonted-text, G = Grid, H = Chart, I = Image, L = List box, M = Multi-line, R = Radio button, S = Selector (folder), T = Text, U = User-ctl, V = Variable list box, X = Variable drop box, x = box (frame), . = vertical scrollbar, - = horizontal scrollbar, (=Arc, O=Circle, / =Line,) = Pie, ^ = Polygon, [= Rectangle, & Embedded Panels, + Dependencies, A Drag & Drop, o OCX controls</p>

Font

Format: font, size, attributes, rotation	
Attributes	B = Bold I = Italics U = Underline all char & Underline & character S = Non-Default Colour C = Centered R = Right Justified W = Word Wrap D = Non-Ansi

Logic

Logic Type	Used For	Action Codes
Post Create	Check Boxes, Charts, Drop Boxes, COM Controls, Grids, Multi-lines, List Boxes, Radio Buttons, Scrollbars	I Ignore (default) P Perform C Call X Execute
Prior Create	Buttons	I Ignore (default) P Perform C Call X Execute
Prior Popup Logic	Popup Objects	I Ignore (default) P Perform C Call X Execute
On Focus	Buttons, Check Boxes, Drop Boxes, Grids, Multi-lines, List Boxes, Radio Buttons, Scrollbars	I Ignore (default) P Perform C Call X Execute
On Change	Buttons, Chart, Check Boxes, Drop Boxes, Grids, Multi-lines, List Boxes, Radio Buttons, Scrollbars	I Ignore (default) L Link P Perform C Call X Execute H Help U Merge-Jumpto J Jumpto E End A End all active wdws
Pre-Display	Panel Header	I Ignore (default) P Perform C Call X Execute

Logic Type	Used For	Action Codes
CTL Process Logic/On Drop Logic	User Controls/Drag&Drop Controls	L Link P Perform C Call X Execute E End
Post-Display	Panel Header	I Ignore (default) P Perform C Call X Execute N Non-Nomads
On-Exit	Panel Header	I Ignore (default) L Link P Perform C Call X Execute H Help U Merge-Jumpto J Jumpto
OCX Events	COM controls	I Ignore (default) L Link P Perform C Call X Execute E End
Pre-Load	Smart List Boxes/Grids/Multi-lines	I Ignore (default) P Perform C Call X Execute
Post-Load	Smart List Boxes/Grids/Multi-lines	I Ignore (default) P Perform C Call X Execute
Load on Demand	List Boxes	I Ignore (default) L Link P Perform C Call X Execute H Help J Jumpto U Merge-Jumpto E End A End all active wdws
Background Loading	Grids/List Boxes	I Ignore (default) P Perform C Call X Execute

Logic Type	Used For	Action Codes
Menu Item Logic	Menu Items	I Ignore (default) L Link P Perform C Call X Execute H Help J Jumpto E End

Note: Logic entries contain a single character action code followed by the parameter.

Colour and Fill Patterns

Colour Type	Values
Existing pre-defined system colours	Default, Dark Gray, Black, Dark Red, Light Red, Dark Green, Light Green, Dark Yellow, Light Yellow, Dark Blue, Light Blue, Dark Magenta, Light Magenta, Dark Cyan, Light Cyan, Light Gray, White
Custom	RGB codes (RGB:n n n where n=0-255)
User Defined	<p>A fixed entry from the user defined colour file 'Providex.clr' - Colournnn (where nnn is a value between 16-255)</p> <p>or</p> <p>An expression containing one of the following:</p> <ol style="list-style-type: none"> 1) RGB codes (RGB:n n n) 2) One of the 16 system colours 3) Colournnn. <p>An = sign will precede the expression.</p>
Fill Pattern Values	
0 - No fill 1 - Solid fill 2 - Top to bottom 3 - Left to right 4 - Crossed line 5 - Top-left to bottom-right 6 - Top right to bottom-left 7 - Diagonal crossed lines	

Custom Sizing

Sizing Options	Movement Options For Fixed Objects
F Fixed A Auto Size	DF Default DC Default (Centered) AT Anchored: Top AB Anchored: Bottom AL Anchored: Left AR Anchored: Right TL Anchored: Top/Left TR Anchored: Top/Right BL Anchored: Bottom/Left BR Anchored: Bottom/Right