

# Topics – Advanced PROIV SuperLayer

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## 1. PROIV and PROIVsl Overview

- What is PROIV?
- PROIV Function Types

## 2. PROIV Timing Cycle

- Screen Timing Cycle
  - High Level View
  - Detail View
- Report Timing Cycle
  - High Level View
  - Detail View
- Update Timing Cycle
  - High Level View
  - Detail View

## 3. PROIVsl GUI Objects

- GUI Object Class supported
- Buttons and Button Groups
  - Defining Button Groups Method 1
  - Defining Button Groups Method 2
  - User Defined Function Keys
  - Enabling and Disabling Buttons
- Defining a Checkbox
- Defining Radiogroups
- GUI Text Styles
- Defining OK/Cancel Buttons

## 4. PROIVsl Reports

- PROIVsl Reports Review
- Defining Custom Headers
  - Defining Report Headers (Manual Layout)
  - Page Footers
- Control Breaks
  - How Control Breaks Occur
  - Control Break Variables
  - Vertical Totaling
- Logical Reports
- Complex Report

## 5. glovia.com Report Device Management

- Default Report Device Hierarchy
- Defining System Default Report Device
- Logical Report Devices

Report Device Maintenance  
Report Device Selection  
Assigning Report Devices to Function  
Using @RPTOPT to Modify Spooler Parameters

## 6. PROIVsl Update Functions

PROIVsl Update Function Review  
Logical Updates  
    Global Logical Update  
Creating an Update Function  
Local Logical Update  
    Creating Local Updates

## 7. Bootstrap Files

Bootstrap File Definitions  
Runtime

CRTCL  
FUNCTDEF  
GENFILE  
LOGONF  
MENUDEF  
MSGF  
SECURITY  
SYSDEF  
TERMMAST  
VARDEF

Development

CBSPEC  
FDESC  
FILEDEF  
FILEHDR  
FILESPEC  
FLDSPEC  
FVARDEF  
HDR  
LOGIC  
LSDE

Special

BATCHQUE  
DCFF  
DCTF  
FILEPHY  
INTERDEF  
INTERHDR

## 8. PROIVsl Utilities

COPY PRO-IV Objects  
    Function  
    File  
    Global Logic  
    SuperLayer Queue

- SuperLayer Regen Exceptions
- Logic to Logic
- DELETE PRO-IV Objects
  - Function
  - File
  - Global Logic
  - Queue Group
  - Distribution List
- RENAME PRO-IV Objects
  - Function
  - File
  - Global Logic
- Search and Replace for SuperLayer Function
- PROIV Explosion
- SuperLayer Explosion
- Rebuilding Queue Group
- Resequencing Function
- SuperLayer Logic Editor
- Exporting and Importing Objects
- Export
  - Function
  - File
  - Global Logic
  - List
- Import
  - Function
  - File
  - Global Logic
  - List
- File Dependent Utilities
  - isin
  - isout
  - iskey
  - isr

## **9. PROIVsl Menu**

- Mnemonics
- Keywords
- Global Messages
- Literal Texts

## **10. PROIVsl Commands**

- Reserved Words
  - ASCII
  - ALIAS
  - COMMIT
  - GETLPSEQ
  - GMSG
  - INDEX
  - PRECISION
  - ROLLBACK

- SET\_RECORD\_FOR\_DELETE
- @VMODES
- @XMODES
- Global Logic
  - AUTOCOFF
  - AUTOCON
  - U\_DFLOAD
  - U\_DFSAVE

## 11. New GUI Functions

- Superlayer GUI Utility
  - Defining GUI Components
  - Using GUI components in PROIVsl Function
  - GUI Component Copy
  - GUI Component Rename
  - GUI Component Delete
  - Default GUI Text Styles
  - Using GUI Text Styles in PROIVsl functions
- New Superlayer Regen Options
  - AF / AFI
  - FK / FKl
  - USG
  - FP
  - DT / DTl
- Glovia Iconic Menu
  - Glovia Menu Maintenance
  - Button Bar Definition
  - Iconic Menu Utility
  - Glovia Iconic Menu On/Off
  - Assigning a Menu and Button Bar to a user

## 12. PROISAM Concepts and Usage

- Use of Work files and alternate keys

## 13. Executing Other Applications in PROIVsl

- Embedding SQL in PROIV functions
  - Basic SELECT statement
  - INSERT statement
  - UPDATE statement
  - DELETE statement
- Using SQL statements in PROIVsl
  - Comparison Operators
  - Logical Operators
  - Character Functions
  - Date Functions
  - Masks for Date Format
  - Masks for Time Format
  - Numeric Functions
  - Conversion Functions
- Examples
  - Embedding Unix calls in PROIV functions

SYSTEM logic  
SYSF logic

#### **14. Programming Tips and Techniques**

How to refresh screen  
Printing multiple copies of reports  
Shortcut to access Logic Editor  
Display asterisk in place of user input  
How to prevent record locking

#### **15. Solutions for difficult programming tasks**

Example 1 Barcode printing  
Example 2 Printing Total Number of pages (Page x of y)

#### **16. File Allocation and Data Recovery**

iscl  
ischk  
ispack  
isview  
iskey

#### **17. Converting Native PROIV to PROIVsl**

Converting Files  
Converting Menus  
Converting Global Logic  
Converting Functions