Installing and Unleashing Unicenter Automation Point

Course Summary

Description

This course is designed to help you design, install, and implement the Unicenter Automation Point product. It is designed to give a complete understanding of the product essentials in a single course.
This enables the attendee to configure Automation Point and develop automation applications on the Windows platform. Quizzes, reviews, and hands-on labs are used to reinforce presented topics.

Topics

- Introduction to CA-Automation Point
- Automation Point Project Planning
- Windows Overview, including concepts, device drivers, services, networking, and install
- Host Connections and Adapter Cards (Terminal emulation, 3270, HLLAPI, and asynch)
- Installing Unicenter Automation Point
- Configuring Automation Point Parameters
- Configuring Keyboard mapping and Scan code files
- Configuring Asynchronous Terminal Sessions
- Using Automation Point Script files
- Automation Point Migration (optional Topic)
- Operating CA-Automation Point
- Using Remote Operations
- Coding Automation Point Rules
- Using REXX with Automation Point
- Using AXC Command Processors
- Designing High Availability, low maintenance automation
- Using Program to Program Queues (PPQ)
- Installation and use of the global variable environment (GLV)
- Editing Automation Point Menus
- Using the Unicenter APIs
- The Automation Point Voice Interface
- Notification Manager
- Using the OPS/MVS <-> Automation Point Interface (optional Topic)
- Using the Automation Point HMC Interfaces

Audience

This course is designed for operations personnel, automation analysts, and systems programmers.

Prerequisites

Students entering this course should have end user knowledge of Windows, and REXX programming experience (as covered in ProTech's *Multiplatform REXX Programming* course).

Duration: Five days

Note: Optionally, an instructor can be retained for additional days to provide on-site programming and systems expertise.

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Course Outline

1 Introduction to Unicenter Automation Point
- a What is Automation Point?
- b Automation Point Features
- c Console Connections w/ Native Terminals
- d Console Connections w/ Automation Point
- e Obsolete Products now rolled into A.P.
- f Automation Point Release Chart
- g Automation Point Architecture
- h New in 4.0: CMDIN Rules
- i New in 4.0: CMDIN Availability
- j Hardware Automation Facility (HAF)
- k New in 4.0: Export Message Command
- l New in 4.0: Notification Features
- m Notification Manager Web Access
- n New Notification Manager Features
- o Notification Website Architecture
- p Notification Website Security
- q New in 4.0: Two-Way Paging
- r New in 4.0: Animated Text-to-Speech
- s New in 3.5: AP Remote Viewer
- t New in 3.5: Web Message Viewer
- u What's Next?
- v 4.next: Native TN3270 Connectivity
- w 4.next: Native SMTP Email
- x Future: Web Service Connectivity
- y Future: Expanded Instrumentation
- z Future: High Performance Notification Manager
- aa Future: Automation Research
- bb Related CA Products
- cc Navigating Automation Point Documentation

2 Automation Point Project Planning
- a Defining Automation Point
- b Analyze current host environment
- c Define the workstation
- d PC Hardware
- e Questions to ask?

3 Windows Overview
- a Understanding Windows Versions
- b Windows Version History
- c Windows 2000 Block Diagram
- d Windows Core Features
- e Windows File Systems
- f Windows Networking
- g Windows Security
- h Windows Remote Access
- i Windows Maintenance
- j Windows Diagnostic Tools
- k Windows Support Options
- l Add-on Windows Tools

4 Installing Windows NT/2000/XP
- a Planning your Install
- b Performing the Install
- c Post-Install Customization
- d Example FTP Session

5 Host Connections and Adapter Cards
- a Host Connection Options
- b Understanding Mainframe Connections
- c 3270 Adapter Card Options
- d PCI Adapter Cards
- e Attachmate 3270 Card (ISA)
- f IBM 3270 Coax Card (ISA)
- g 3270 PCI card Install Steps: AP 3.5+
- h Multiple 3270 PCI card Install Steps
- i PCI Expansion Kits
- j SBS Technologies Product Line
- k Serial Communication Cards
- l NICs (Network Interface Cards)

6 Installing Unicenter Automation Point
- a AP 3.5+ Installation Philosophy
- b Upgrading AP from Previous Version
- c Online Manuals
- d Configuration Manager
- e Configuration Mgr Wizard Interface
- f Expert Interface
- g AP 4.0+ Session Configuration
- h AP 4.0+ Site Directory
- i Planning the Install
- j Planning the Install – License Keys
- k Performing the Install
- l Acquiring AP Maintenance
- m Applying AP Maintenance
- n Post-Install Customization
- o Optional Post-Install Customization

7 Configuring Automation Point Parameters
- a Automation Point Parameter Setting
- b AP 4.0+ Session Configuration
- c AP Parameter Summary
- d Syntax for Profile Parameters
- e Selected Session Parameters
- f Session Parameter Examples

8 Keyboard and Scan Code Files
- a What is a Keyboard Parameter file?
- b Three Keystroke Parameters
- c Syntax for Keyboard Parameters
- d Keyboard Parameter File Example
- e Customizing Keyboard Parameter Files
- f Scan Code File Example

9 Configuring Asynchronous Terminal Sessions
- a Creating Asynchronous Sessions
- b AP 4.0 Session Definitions

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c AP 3.5- Asynchronous Parm Files
d Asynchronous Parm File Syntax
e Sample RS-232 Async Parmfile
f Async Parameters
g Async Status Display
h Message Parsing Status Display

10 Script Files
a What is a Script file?
b Script File Syntax
c Script Keywords
d Example MCS Console Script
e Doing away with Scripts

11 Migrating Automation Point
a Assessing your environment
b New Features to Consider Using
c Possible Automation Point Roles
d Conversion Planning: What to Reuse?
e Conversion Planning: Incompatibilities
f REXX Incompatibilities
g REXX Workaround - CMDRESP
h REXXUTIL Incompatibilities
i Planning your conversion
j Performing the conversion
k Handling Sticky Issues
l Testing
m Testing - Simulate.cmd
n Operator Training
o Cutover

12 Operating Automation Point
a Starting Automation Point
b Automation Point Windows
c Terminal Emulator Window
d AP Function Windows
e Merged Message Window
f Action Message
g Normal Message Recall
h Host Log
i Command Area
j Choosing a Operation within AP
k Menu
l Listmgr submenu
m Pausing Automation
n Executing Scripts & REXX Execs
o Stopping a REXX
p Controlling Font Sizes
q Stopping Automation Point
r 3270 Terminal Considerations

13 Using Remote Operations
a Options for Remote Operations
b APVIEW Features
c Selecting Automation Point Remote
d APView on Windows9x
e Defining Remote Access Security
f Web Message Viewer
g Web Message Viewer Architecture

14 Coding Automation Point Rules
a So What Are Rules??
b Syntax For Rules
c Rules Keywords By Category
d Rules: Event Filtering Keywords
e Rules: Message Display Keywords
f Rules: Message Logging Keywords
g Rules: Automation Action Keywords
h Unicenter Keywords (Event Traffic Controller)
i Types of Variables
j Environment Variables
k Status Variables
l Variable Characteristics
m Dynamic Status Variables
n Using Dynamic Status Variables
o Event Filtering Keywords: Every
p Event Filtering Keywords: Limit, Matchlim
q Event Filtering Keywords: Session
r Event Filtering Keywords: When
s Message Display Keywords: Alarm
t Message Display Keywords: Color
u Message Display Keywords: Suppress, Display
v Message Display Keywords: Hilight, Lowlight
w Message Display Keywords: Prefix
x Message Display Keywords: WTO, Reword
y Message Display Keywords: WTXC
z Message Logging Keywords: Log, NoLog
aa Rules Example: Log
bb Message Logging Keywords: Print
cc Automation Action Keywords: DOM
dd Automation Action Keywords: OSCMD
ee Automation Action Keywords: Reply, Script
ff Automation Action Keywords: Sesscmd
gg Automation Action Keywords: DOSCmd, XCCmd
hh Automation Action Keywords: REXX
ii Automation Action Keywords: Set, PPQWrite
jj Specifying Text Strings
kk Rules Coding Exercises
ll How Rules Are Processed
mm Coding Efficient Rules
nn AP Rules Processing Order
oo Tuning Rules
pp Rules Member
qq How AP Processes Errors
rr More On Tuning Rules
ss Rules Tuning Exercises

15 Using REXX with Automation Point
a The Big Picture

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Course Outline

- b Automation Point REXX Options
- c Invoking REXX Programs
- d Automation Point REXX Environments
- e Open-REXX Proprietary REXX functions

16 Using AXC Command Processors
- a Automation Point Commands
- b ADDRESS AXC Commands by Category
- c Host Session Interaction: GETSCRN
- d Host Session Interaction: SESSCMD
- e GETSCRN & SESSCMD Variables
- f SESSCMD Special Keystrokes
- g SESSCMD HLLAPI Keystrokes
- h Selected Keyboard Mnemonics
- i GETSCRN & SESSCMD Example
- j Binding to a Session
- k Host Session Interaction: Buffers
- l OPENBUF & READBUF Example
- m Host Session Interaction: SESSCNTL
- n Host Session Interaction: SESSLIST
- o Variable-related Commands
- p GETVARL Example
- q Message-related cmds: GetMsgI, DOM
- r GETMSGI & DOM Example
- s Message-related commands: MSG
- t Message-related commands: WTO
- u Miscellaneous Commands: GETREXXL
- v Miscellaneous Commands: STOPREXX
- w Miscellaneous Commands: REXX, Script
- x Miscellaneous Commands: LOADRULES
- y Miscellaneous Commands: PLOT
- z PLOT Example & Lab
- aa Miscellaneous Commands: WAIT
- bb Designing Your Own REXX Exec
- cc Hints For Cursor Location

17 Using PPQs
- a What is a PPQ?
- b Types of PPQs
- c Client - Server PPQ Design Flow
- d Install: What is needed?
- e PPQ Commands - Create
- f PPQ Commands - Write
- g PPQ Commands - Read
- h PPQ Commands - Delete
- i PPQ Commands - Lock
- j PPQ Commands - Unlock
- k PPQ Commands - List
- l PPQ Commands - Misc.
- m Debugging PPQ Programs
- n Sample PPQTRY.CMD session
- o Diagnosing with ASOTRACE
- p Sample ASOTRACE.LOG
- q PPQ Lab: Client - Server PPQ

18 Using GLV
- a Understanding A.P. Global Variables
- b Understand GLV Groups
- c GLV Variable Naming Standards
- d ADDRESS GLV Commands by Function
- e GLV Commands: Select
- f GLV Commands: Get
- g GLV Commands: GrpList
- h GLV Commands: GrpListV
- i GLV Commands: List
- j GLV Commands: ListV
- k GLV Commands: Purge
- l GLV Commands: Put, PutP
- m GLV Commands: Set, SetL
- n GLV Commands: SetP, SetLP
- o GLV Commands: Ver, VerV
- p ADDRESS GLV Lab

19 Editing Menus
- a Menu Terminology
- b What you can customize
- c Files used by Menu Processing
- d Steps to add new item to a Menu
- e Steps to add a new Submenu

20 Interfacing to Unicenter TNG
- a CA-Unicenter Overview
- b Unicenter TNG Architecture
- c SNMP Manager-Agent Design
- d Agent Types
- e Platform-specific System Agents
- f Unicenter Event Browser
- g 3-D, 2-D WorldView Interface
- h Areas of Integration
- i Automation Point - Unicenter Interfaces
- j TNG Interface Using PPQs
- k Unicenter Interface - Rules & REXX
- l Unicenter Interface - Rules Keywords
- m Unicenter Interface - REXX Commands
- n Event Traffic Controller Sessions
- o Event Traffic Controller Logic
- p Installing Unicenter Interfaces
- q Address TNG WorldView Interface
- r WorldView Interface - REXX Cmds

21 The Automation Point Voice Interface
- a Voice Overview
- b Voice Hardware
- c Dialogic® CT hardware Overview
- d Setting up a Voice Card
- e Post-Install configuration & testing
- f Programming ADDRESS VOX
- g Sample Voice Application: Txt2vox
- h Sample Voice Application: CALLXFER

22 Notification Manager

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a Notification Services
b What Notification Manager Does
c Contacts
d Predefined Methods
e User Written Methods
f Parameters
g Day-of-Week Schedules
h Date Specific Schedules
i Ordering Multiple Active Schedules
j NMFIND: Interface to Automation
k NMFIND Syntax & Examples
l NMANSWER
m Forwarding
n Escalation
o Loops and Duplicates
p Broadcasting
q The Call Tree
r Message Store and Forward
s Notification Manager, Voice, & PPQ
t Configuring Notification Manager
u Creating an Automation Point DBMS
v Configuring NM Web Services
w Select Notification Server to Configure
x Assigning Notification Server Channels
y Tracing and Logging
z Sample Methods
aa REXX API
bb New Features for Release 4.0
cc Notification Website
dd Security-Controlled Actions
ee Notification Manager Features
ff Notification Manager Web Access
gg Notification Website Operations

23 Using the OPS/MVS <-> Automation Point Interface
a Interface Overview
b Installation Requirements
c Using the Interface from OPS/MVS
d Address AP NMFIND Example
e Address AP PPQ Command
f Address AP REXX Command
g Address WTO & Automation Point
h Using the Interface from Automation Point
i Address OPS CMDRESP
j Address OPS LIST Command
k Address OPS OPER Command
l Address OPS OSFTSO Command
m Address OPS VER Command
n Address OPS WTO Command
o Installation and setup (MVS)
p Installation Requirements (MVS)
q Connection Type and Protocol
r CAICCI Install - Mainframe
s Defining AP Session From OPSVIEW
t CA-OPS/MVS Parameters
u Security Options
v Address AP Security Rule
w OS/390 CCI Commands
x AP Server CCII Connection Response
y Installation and Setup (PC)
z Problem Diagnostics

24 Using the Automation Point HMC Interfaces
a Mainframe IPL Considerations
b HMC Interfaces
c Automating the IPL Process
d APCMOS Program
e APCMOS Details
f Understanding HMC DLLs
g APCMOS Example
h Hardware Automation Facility (HAF)

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