From VTAM to TCP/ip at CCI Presented by Michael Rosinger WAVV 2003 Winston-Salem, NC



















```
TN3270E Server Job
// EXEC BSTTVNET,SIZE=BSTTVNET,DSPACE=3M
* >>> specify the stack and port
ID 00
OPEN VSE nnnn
* >>> specify available APPL ID's
APPLID PRODCICS Production CICS
APPLID TESTCICS TEST CICS
APPLID PHOENIX Phoenix/Cygnet+
APPLID IESWAITT
* >>> menu title
TITLE Computer Credit, Inc.
* >>> specify pool of generic terminals
TERMINAL TOO1 GENERIC
TERMINAL T002 GENERIC
. . . .
* >>> specify pool of IP printers
PRINTER P001 BSTTVNET
PRINTER P002 BSTTVNET
. . . .
* >>> attach the server
ATTACH TN3270E
/*
```

| <pre>* generic terminals T001 APPL AUTH=(ACQ),EAS=1 T002 APPL AUTH=(ACQ),EAS=1 * terminals for IP printers VNETPRT GROUP MODETAB=IESINCLM,DLOGMOD=SPDSCPRT P001 APPL AUTH=(ACQ),EAS=1</pre> | * termina VNETAPPL BSTTVNET BSTTUSST VNETTRM | l definitions for TN3270E server VBUILD TYPE=APPL APPL APPL AUTH=(PASS,ACQ) GROUP MODETAB=IESINCLM,DLOGMOD=SP32720N |
|--|--|---|
| <pre>* terminals for IP printers VNETPRT GROUP MODETAB=IESINCLM,DLOGMOD=SPDSCPRT P001 APPL AUTH=(ACQ),EAS=1</pre> | * generic T001 T002 | terminals APPL AUTH=(ACQ),EAS=1 APPL AUTH=(ACQ),EAS=1 |
| PUUZ APPL AUTH=(ACQ), EAS=1 | * termina VNETPRT P001 P002 | ls for IP printers GROUP MODETAB=IESINCLM,DLOGMOD=SPDSCPRT APPL AUTH=(ACQ),EAS=1 APPL AUTH=(ACQ),EAS=1 |

| S2 - Phoenix - mod5 - BlueZone M File Edit Session Options Transfer | <mark>fainframe Display</mark> View Macro Script Help | _ 8 × |
|--|--|--------------|
| | 8 📕 168 14ª 55 118 128 128 126 127 01 ● ■ Ⅱ ▶ 1 ♦ ? 🎍 | |
| TCP/IP-TOOLS TN3270- | E Server Version V2.29 Host:192.168.1.11 | 04/08/2003 |
| Application Selection | on Menu Client:192.168.1.40 | 14:42:13 |
| Computer Credit, Inc | | |
| Name Status D | Description | |
| IESWAITT Inactive | | |
| PHOENIX Ready F | Phoenix/Cygnet+ | |
| TESTCICS Ready I | LEST CICS | |
| PRODUIUS Ready F | roduction LILS | |
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| | | TO 10 |
| Copyright (c) 1998-2 | 2003 by Barnard Software, Inc. LU Nam | ne=1048 |
| | | |
| Attn Clear PF1 | PF3 PF5 PF6 PF7 PF8 PF10 PF1 | 1 PF13 |
| S2 Ready (1) 192.168.1.11 | TN3270 APL 14:40:06 Tue Apr 08 NUM 1 00:00: | 14 05, 002 |

| Some TN3270E "Gotchas" |
|--|
| •The Logon menu: |
| •The <i>last</i> APPLID specified is <i>first</i> displayed |
| •The <i>first</i> APPLID must be not be in <i>Ready</i> status or the menu will never display |
| Define an unused (but valid) VTAM APPL as the first item on the menu |
| For ease of maintenance, the TN3270E commands should be in separate PROC |
| 14 |





VTAM Definitions

* terminal definitions for TN3270E server VNETAPPL VBUILD TYPE=APPL BSTTVNET APPL BSTTUSST APPL AUTH=(PASS,ACQ) VNETTRM GROUP MODETAB=IESINCLM,DLOGMOD=SP3272QN * generic terminals T001 APPL AUTH=(ACQ),EAS=1 T002 APPL AUTH=(ACQ),EAS=1 * terminals for IP printers VNETPRT GROUP MODETAB=IESINCLM,DLOGMOD=SPDSCPRT P001 APPL AUTH=(ACQ),EAS=1 P002 APPL AUTH=(ACQ),EAS=1

| | RDO Entr | ies |
|--|--|---|
| EX GR(IPPRNTR) ENTER COMMANDS NAME TYPE P001 TERMIN P002 TERMIN | GROUP VAL IPPRNTR VAL IPPRNTR | DATE TIME 01.309 07.52.18 01.309 07.51.48 |
| OBJECT CHARACTEN CEDA View TYpe TYpeterm Group | RISTICS eterm(VSEDSCP) : VSEDSCP : VSETYPE | CICS RELEASE = 0411 |
| OBJECT CHARACTER CEDA View TErr TErminal Group | RISTICS ninal(P001) : P001 : IPPRNTR | CICS RELEASE = 0411 |
| Description AUTINSTModel AUTINSTName TERMINAL IDENTI TYpeterm NEtname | : POWER TO CANON IR5000 V : No No : IFIERS : VSEDSCP : P001 | VIA TCP/IP (COLLECTIONS MBOX) Yes Only |
| | | |

Sequence of startup... 1) Connect Mainframe Printer client to TN3270E 2) Start the printer as a device in POWER... S DEV,P001,SYSCICSA,1,PARM=`P001' 3) Acquire the terminal (printer) in CICS... CEMT SET TERM(P001) ACQ Order is critical! Mhen the handshake occurs... F1 0001 lQY2I DEVICE P001 WAITING FOR WORK,DDS=SYSCICSA F2 0107 DFHRC5491 12/31/01 06:28:40 PRODCICS TASK 32 TERMINAL P001 - this terminal, serving DESTINATION P001 has been started

| | Displayin | g the printer(s) | |
|---|--|---|-----------------|
| In POWER | | | |
| d a,dev AR 0015 1C39 F1 0001 1R48 F1 0001 1R48 F1 0001 1R48 In CICS Repo | I COMMAND PA I DEV,ALL,DI I DEV,P001,I I DEV,P002,I rt Controlle | SSED TO VSE/POWER DS=TEI,XP, DDS=SYSCICSA,1, DDS=SYSCICSA,2, | |
| CEOS: 121 | | PRINTER LIST | |
| OPT PRINTER P001 P002 | DESTINATION P001 P002 | STATUS WAITING WAITING | CLASS 1 2 |

JCL to implement it...

* \$\$ JOB JNM=CMS115,CLASS=5,DISP=D,DUETIME=1100 * \$\$ LST LST=52E,CLASS=Z,DISP=H * \$\$ LST LST=52F,CLASS=1,DISP=D,DEST=(,P001) // JOB CMS115 SCHEDULED PULL LIST . . . /& * \$\$ EOJ

| TN3270E Properties - PowerQueue to CanoniR50? Connections Device Security Keep Alive Trace Firewall About TN3270 / TN3270E Connections Connection List: PowerQueue to CanoniR5000 New Edit Remove Sort Use Connection Name as Session Description |
|---|
| Connections Device Security Keep Alive Trace Firewall About TN3270 / TN3270E Connections |
| TN3270 / TN3270E Connections Connection List: PowerQueue to CanoniR5000 Edit Remove Sort Vueue Connection Name as Session Description |
| A stice Connection |
| Active Lonnection |
| Connection Name: PowerQueue to CanoniR5000 |
| Host Address: 192.168.1.11 |
| LU Name: P001 |
| TCP Port: 1023 |
| Backup Host: None |
| Printer Association: None |

| Setup for Canon | iR5000-6000 | PCL5e | |
|---|--------------------|--|---------------|
| ter/Page Layout F | onts Options P | assthrough Print To File | |
| Spacing Lines Per Page: Lines <u>P</u> er Inch: | 55 | Characters Per Line: Characters Per Inch: | 198 10 |
| U_UDIE Space Lin | | J Uverride Host Space | cing Settings |
| Presentation | <u> </u> | | |
| Print Quality: | O Draft | O <u>N</u> ear Letter Quality | |
| Duplex Mode: | ○ Simplex | ⊙ D <u>u</u> plex C | Tumplex |
| Cverride Host Pre | sentation Settings | | |
| Print Scaling | | | |
| Scale <u>F</u> actor: | 100 - | | |
| Auto-Size Fonts to | fit the Paper Size | | |
| | | | |
| | | | |
| | | OK | Coursel 1 |

| MainFrame Printer Client | | | | | |
|---|--|------------------|----------------------|---------------|----------------|
| Pl - PowerQueue to File Session Options A | CanoniR5000 - Bh Action <u>V</u> iew <u>H</u> elp | ieZone Mainframe | Printer - O | utput to Cano | n iR5000 🗖 🗖 🗙 |
| | | | ≝≞∎∭ | S 8 0 | |
| Printer Profiles D | evice | Paper Size | Orientation | Method of F | Printing |
| Canon iR5000-600 C | anon iR5000-6000 P | Letter | Landscape | Windows A | PI |
| Job Name | Status | Size | | Output | |
| | | | | | |
| Log Name | Size | Date & Time | | | |
| 🖂 LstQ59.dat | 3914 | 12-18-2001 | 11:09:13 | | |
| EstU58.dat | 156127 | 12-18-2001 | 07:11:07 | | |
| Estupridat | 3490 | 12-17-2001 | 10:55:53 | | |
| I LstQ6.dat | 120938 | 12-13-2001 | U6:46:38 11-56:20 | | - |
| D1 100 100 1 11 | 2274 D001 | 12-14-2001 | 11.30.30 | 14-24-00 | 04:22:01 |
| FI 132.166.1.11 | FUUI | j neady | | 14.34:06 | 04:32:01 |
| | | | | | |





