

# BSI TCP/IP Printing

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# BSI TCP/IP Printing

- LPR (Batch/Auto)
- FTP (Instead of LPD)
- TN3270E
  - With Client
    - » non-SNA printer emulation
    - » SNA printer emulation
  - Without Client
    - » DIRECT, LPR, FTP
- VSE2PDF

# BSI LPR

- Batch Line Print Requester
- Send data from POWER to LPD
- // EXEC BSTTLPRC
- Auto-LPR using REXX EXEC
- Emulation of CSI/IBM Auto-LPR Scripts
  - Via REXX EXEC

# BSI FTP Server

- Use instead of LPD
- FTP data into POWER queues
  - RDR, LST, PUN, XMT
- Faster than LPR/LPD
- Simple, easy to use

# BSI TN3270E Server

- External TN3270E Server
- Supports standard TN3270
- Supports TN3270E Terminals
- Supports TN3270E Printers
  - SNA and non-SNA
- Supports DIRECT, LPR, FTP Printing
  - No TN3270E client needed!

# BSI TN3270E Server

- TN3270E Printer Clients
  - Win95/98/NT/2000/XP PC, X3270 (Linux/Unix)
- Multiple printers driven
  - Up to 1000 per TN3270E server
  - Client, Direct, LPR, IPP, FTP drivers
- Supports many applications
  - CICS Report Controller, CA-RAPS, RPS
  - BIM-PRINT, VTAM-PRINT (and more)

# BSI TN3270E Client Based Printing

- PRINTER luname BSTTVNET <SCS>
- Supports non-SNA (DSC) printing
- Supports SNA (SCS) printing
- Application sends data to VTAM
- VTAM sends data to TN3270E server
- TN3270E server sends data to TN3270E client
- TN3270E client sends data to printer
  - Local or Network

# BSI TN3270E Client Based Printing

```
// EXEC BSTTVNET, SIZE=BSTTVNET, DSPACE=3M  
ID 10  
OPEN 127.0.0.1  
*  
APPLID BSTTVNET PRINTER SHARING APPLICATION  
*  
PRINTER P001 BSTTVNET  
PRINTER P002 BSTTVNET  
PRINTER P003 BSTTVNET SCS  
*  
ATTACH TN3270E  
/*
```



# BSI TN3270E Client Based Printing

P3 - P001 - BlueZone Mainframe Printer

File Session Options Action View Help

Printer Profiles	Device	Paper Size	Orientation	Method of Printing
<input checked="" type="checkbox"/> XEROX XD100	HP 700	Letter 8 1/2 x 11 in	Landscape	Windows API

Job Name	Status	Size	Output
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Log Name	Size	Date & Time	
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P3 192.168.1.22 P001 Ready 12:58:25 00:00:57

# BSI TN3270E Client Based Printing

**Print Setup for XEROX XD100** [?] [X]

Printer / Page | Layout | Fonts | Options | Passthrough | Print To File

**Printer**

Device Name:

Output Port:

Always use Windows Default Printer on Startup

**Page Settings**

Paper Size:

Specify Custom Paper Size

Orientation:

Auto-switch to Portrait / Landscape based on CPL

Margins:  None  Minimum  Custom

Override Host Page Settings

# BSI TN3270E Client Based Printing

**Print Setup for XEROX XD100** [?] [X]

Printer / Page | Layout | **Fonts** | Options | Passthrough | Print To File

**Spacing**

Lines Per Page:

Characters Per Line:

Lines Per Inch:

Characters Per Inch:

Double Space Lines

Override Host Spacing Settings

**Presentation**

Print Quality:  Draft  Near Letter Quality


Duplex Mode:  Simplex  Duplex  Implex

Override Host Presentation Settings

**Print Scaling**

Scale Factor:

Auto-Size Fonts to fit the Paper Size

 3270

OK Cancel Apply

# BSI TN3270E Printing Without a Client

```
// EXEC BSTTVNET, SIZE=BSTTVNET, DSPACE=3M
ID 10
OPEN 127.0.0.1 5023
*
APPLID BSTTVNET PRINTER SHARING APPLICATION
*
DIRECT  DIR  BSTTVNET 127.0.0.1      9100 *
LPR     LPR  BSTTVNET 192.168.1.1    *   HP600L
FTP     FTP  BSTTVNET JCB          *   HP600L EPSON EPSON
*
ATTACH TN3270E
/*
```

# BSI TN3270E Printing Without a Client

- **DIRECT luname BSTTVNET ipaddr port insert**
  - Prints directly to printer at specified ipaddr/port
- **LPR luname BSTTVNET ipaddr port insert queue**
  - Prints to LPD at ipaddr
- **FTP luname BSTTVNET ipaddr port insert userid passwd**
  - Prints to FTP server

# BSI TN3270E DIRECT Printing

- DIRECT luname BSTTVNET ipaddr port insert
  - Prints directly to printer at specified ipaddr/port
- Generally Port 9100
  - Have seen Port 2501 used too
- HP JetDirect 170x
  - Watch out for the low end models
  - Ports 9100/9101/9102
- Tally T2265 / T6212 / T6218
  - More robust

# BSI TN3270E LPR Printing

- LPR luname BSTTVNET ipaddr port insert queue
- Prints to LPD at ipaddr
- Large reports may overrun buffer
  - Data file sent first then control file
- Print to LPD on a server
  - Let server print to printer

# BSI TN3270E FTP Printing

- **FTP luname BSTTVNET ipaddr port insert userid passwd**
- Prints to FTP server
- Some printer support this
  - No Solaris driver, use FTP to printer
- CICS print Appl, Screen Print (etc)
  - Output sent to FTP server
  - Post processing by another application
  - Archive



# VSE2PDF

- Report Distribution via Email, FTP
- POWER Prints to VSE2PDF
  - VSE2PDF is POWER Device
- VSE2PDF Reformats the Report
- VSE2PDF Emails the Report to Users
- User Receive Report as Email Attachment
  - Printing only as needed

# VSE2PDF

- Report Reformatted as PDF File
- User Can Not Alter Report
- Viewer is FREE
- Overlays are supported
  - Static Data, Graphic data
- Bookmarks (Indexes)

# VSE2PDF

- Report Reformated as HTML File
- Free Viewer
- No font guarantee
- No page layout guarantee
- Limited print facilities

# VSE2PDF

- Report Reformatted as Text File
- No Viewer Required
- Warnings
  - User can alter report
  - No font guarantee
  - No page layout guarantee

# VSE2PDF

- Push and Pull Delivery
- Push Report via Email to User
  - Available when job is finished
  - Delivered directly to users Inbox
- Pull Report from FTP server by User
  - Great for Archival

# VSE2PDF

- Print Report to PDF printer
  - HP printer with PDF ‘chip’ (JetCaps)
  - Larger IBM, XEROX printers
- LPR
- DIRECT (Port 9100)

# VSE2PS

- Post Script
- Same Facilites as VSE2PDF
- Replace PSF/VSE