IBM Network Station[™] Family of Thin Clients Access for today, flexibility for tomorrow

Network Station Manager V2R1 VTxxx Client Overview

August 29, 1999

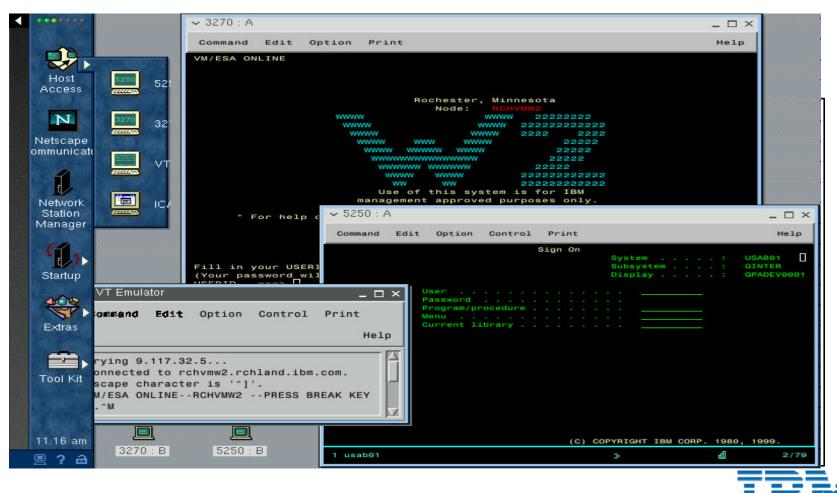




V2R1 Terminal Emulation Enhancements VTxxx

VTxxx convergence toward 5250/3270 standard interfaces

... and more



What's New with the VTxxx V2R1 Client

- Everything you liked about V1R3 functions migrate to V2R1
- V2R1 provides additional functions you asked for
 - Convergence with 5250/3270 clients
 - Common Help viewer
 - Common Menu structure
 - VTxxx keyboard remapping Common User Interface
- New source code base
 - Derived from CDE dtterm IBM code
 - ► Now, IBM controls and manages the source!
 - Quicker response to field situations
 - Slightly different function set, user interface, preferences



V2R1 VTxxx Client Preview

- Look and feel improvements common to 3270 and 5250
 - Menu Bar consistency
 - Integrated Help Facility
 - Includes key descriptions, functions
 - Windows-like desktop operation and appearance

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|-------------------------------|--|-------|
| | ✓ VT Emulator | _ 🗆 × |
| | Command Edit Option Control Print | Help |
| Host Access | New VT Emulator | |
| N | Exit Escape character is '^]'. | |
| Netscape | telnet (celtic.rchland.ibm.com) | |
| Network Station Manager | IBM Rochester AFS/DFS (celtic.rchland.ibm.com) AIX 4.1.5.3 login: [] | |
| Startup | | |
| Extras | | |
| Tool Kit | | 1 |



V2R1 VTxxx NPT Client Unique Functions

- VTxxx NPT client New IBM code base
 - Richer function set
 - Consistent and easier management from NSM
 - Same Archetype models supported:
 - -VT100, VT102, VT200, VT220, VT300, VT320, Xterm, ANSII
 - Printer functions now similar to other NPT clients
 - Plus printer passthru (escape code) support as per V1R3
- VTxxx convergence toward 5250/3270 standard User Interfaces
 - Graphical Keyboard remapper
 - PC style default
 - VTxxx archetype keyboard templates
 - Online Help Text
 - Miscellaneous preferences
 - NSM config options controls
 - Standard NWS printer support for ASCII, PS, PCL datastreams
 - Latin 1 code pages -same coverage as V1R3 + Euro symbol



Option pulldown, with manual font select

Similar to V1R3 5250 font select management, sizing controls
 Does NOT autoscale with window size change

| Trying 9.5.33.1 Connected to ce Escape characte telnet (celtic.rchland.ibm.com) Fonts Fonts Miscellaneous Preferences 14x27 11x21 10x19 9x15 | <u> </u> |
|--|----------|
| pe Escape characte Keytoard Resapping 11x21 telnet (celtic.rchland.ibm.com) 10x19 | |
| telnet (celtic.rchland.ibm.com) 10x19 | |
| CALC CALC | |
| IBM Rochester AFS/DFS (celtic.rchland.ibm.com) 7x11 AIX 4.1.5.3 login: Default | |
| | |
| | |

Miscellaneous Preferences

Cursor Style (block/underscore) Cursor Blink Application Cursor Mode Application Keypad Mode Auto Line Feed Auto Wrap Around Jump Scroll Margin Bell/Margin Bell Column Reverse Wrap Around Visible Status Line Visual Bell

| | ✓ VT Emulator | _ 🗆 × |
|---|--|---|
| Host | Command Edit Option Control Print | Help |
| Access | Trying 9.5.33.171 Connected to celtic.RCHLAND.IBM.COM. Escape character is '^]'. | |
| letscape | telnet (celtic.rchland.ibm.com) | VT Emulator Miscellaneous Preferences |
| Network Station Manager Startup Startup Extras | IBM Rochester AFS/DFS (celtic.rchland.i AIX 4.1.5.3 login: [] | Select a preference Cursor Style Cursor Style Cursor Blink Application Cursor Mode Auto Line Feed Auto Wrap Around Jump Scroll Margin Bell |
| Tool Kit | | Save Exit Set Defaults Help |

VTxxx Keyboard remapper-Default

Graphical Keyboard Mapper

PC Style Default

Multiple actions macro and string capability

| •••••• | ✓ VT Emulator Keyboard Remapping | - × |
|---|---|--|
| Host Access | Esc F1 F2 F3 F4 F5 F6 F7 F8 F9 F1 ` 1 2 3 4 5 6 7 8 9 0 - = | 10 F11 F12 Pri Scr Pau BackSpace Ins Hom Pag Num / * - |
| Netscape Network Station Manager | Tab Q W E R T Y U I O P [Caps Loc A S D F G H J K L ; ' | J Del End Pag 7 8 9 I Image: Constraint of the second s |
| Startup Extras | Available Actions List: BeginningOfBuffer() CopyClipboard() CursorDown() CursorLeft() CursorLeft() CursorUp() CutClipboard() EndofBuffer() EnterKey() EscapeCharacter() F1() Image: Comparison of the second se | Current Key: F1 Key/Action -> Base F1() -> Shift JDK_F1() -> Caps Lock VtPF1() |
| | Character List: | -> Alt |
| | <u>!</u> " # \$ % & ' () * + , | -> Ctrl [TtyInterrupt() |
| | i ¢ £ ¤ ¥ ! § ° ¢ ª « ¬ - Ø ° | -> Num Lock |
| | | OK Carcel |
| 8:39 | Save Delete Apply Changes to Session Festore Exit | Print Help |
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Graphical remapper - Native VT220 layout

4 special PF keys over Num Pad area Use -numLock option on command line << Note capitalization!

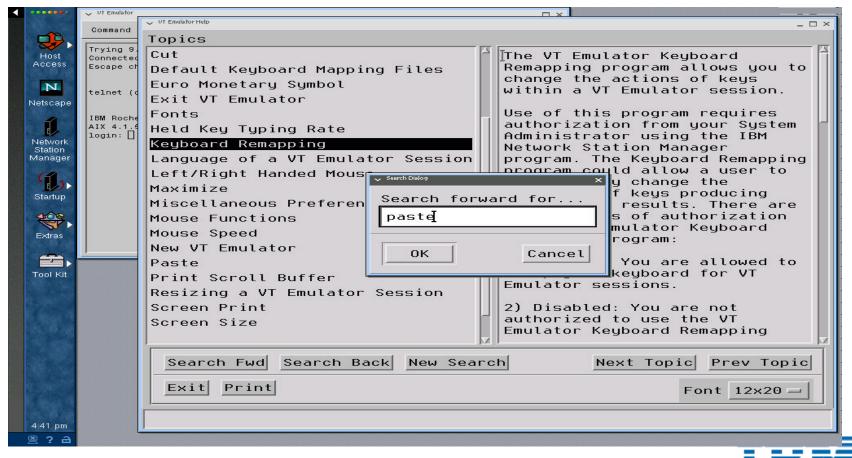
| | ✓ VT Emulator Keyboard Remapping | _ × |
|--------------------|---|--|
| \$, | | 10 F11 F12 Pri Scr Pau |
| Host Access | <u>` 1 2 3 4 5 6 7 8 9 0 - =</u> | BackSpace Ins Hom Pag Num / * - |
| Netscape | Tab Q W E R T Y U I O P [|] \ Del End Pag 7 8 9 + |
| | Caps Loc A S D F G H J K L ; ' | Enter 4 5 6 |
| Network | Shift Z X C V B N M , . / | Shift Up 1 2 3 Ent |
| Station Manager | Ctrl_L Alt Alt | Ctrl_R Lef Dow Rig 0 . |
| I , | Available Actions List: | Current Key: Num Lock Key/Action |
| Startup | BeginningOfBuffer() | |
| 🖉 🕸, | CursorDown() | |
| Extras | CursorLeft() CursorRight() | |
| | CursorUp() | |
| Tool Kit | CutClipboard() Action Definition | |
| | EnterKey() | The Prove of the P |
| | EscapeCharacter() | -> Base VtPF1() |
| | Locate | -> ShiftVtPF1() |
| | Character List: | -> Caps Lock VtPF1() |
| | ! " # \$ % & ' () * + , | -> Alt VtPF1() |
| | і ¢ £ ¤ ¥ ¦ § ¨ ¢ ≞ « ¬ - Ф ¯ | -> Ctr1 VtPF1() |
| | | |
| | | OK Carcel |
| 8:40 | Save Delete Apply Changes to Session Festore Exit | Print Help |
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New Help Viewer function

- Over 50 panels of details
- Additional help found in keyboard remapper help area
- More help found in NSM help text



VTxxx new client differences

- Derived from IBM's DTTERM code
 - Not ported from former NCDI VTxxx client V1R3 code
 - Different preferences, resource names, values
- List of known differences from V1R3
 - Diagnostic interface to OS is Xterm, NOT NSterm
 - Loopback, localhost options disabled in NSterm
 - No blink attribute, cursor appearance differences
 - No peer-to-peer network printer function as before
 - Standard Network Printer support
 - NWS local printers can be configured as Network Printers



Unfulfilled significant requirements

- Color mapping
 - Use command line -bg color and -fg color switches
 - Refer to help text, "Color Preferences"
- No VT340, VT420, or IBM 3151 emulation modes
- No SCO ANSII datastream support
- others??



VTxxx NSM management options

Also, see "Additional Parameters" Help text in VTxxx client

| — Netscape: IBM Network Station Manager - 🗖 | | |
|--|--|------|
| File Edit View Go | Communicator | Help |
| Contents | Help for Applications: VT Emulator Settings | |
| Overview | The IBM Network Station VT Emulator Settings pan lets you change VT Emulator settings. | el |
| Getting Started | You can work with the following VT Emulator setting | s: |
| How to | Keyboard settings: | |
| Hardware: <u>Workstations</u> <u>Printers</u> | <u>Key remapping capability</u> <u>Default keyboard files</u> Allow use of settings: | |
| Serial Devices Applications: 5250 | <u>Command menu</u> <u>Edit menu</u> | |
| 3270 VT Emulator | <u>Option menu</u> <u>Print menu</u> Help menu | |
| <u>Netscape</u> <u>Applet Viewer</u> <u>ICA Remote</u> | <u>Control menu</u> <u>Miscellaneous preferences</u> Font menu list | |
| Application Manager | Advanced settings: | |
| Desktop: Display Launch Bar | <u>Use Latin character set</u> <u>Use Vertical Scrollbar</u> <u>Start Debug Log</u> | = |
| Environment: General Network | O Lines to satie in huffer | |
| Language Administration: | Back Next Close | |
| 100% | 11 🔆 🖄 🚽 🖬 | 1 |



V2R1 Sales Considerations (All Clients)

- Minimum Footprint increased
 - ► 32 MB minimum system memory configuration,
 - -Original 16 MB machines not supported
 - -VTxxx client requires 3MB, 0.5 MB add'l sessions
- up to 4X network traffic boot & application load
- NLS coverage reduced
 - ► Latin 1 locales subset only
 - English, UK English, French, Belgian Fr, Canadian Fr, Swiss Fr, German, Swiss German, Italian, Spanish, LA Spanish, Swiss Italian, Brazilian Portuguese, Dutch, Belgian Dutch, Danish, Finnish, Norwegian, Portuguese, Swedish
- VTxxx migration issues with new code base
- Comm error recovery
 - No messages if Boot Server connection broken
- Unix mouse focus policy dropped (need explicit click on window)
- Lower" window management function dropped



V2R1 - Continued VTxxx Client Improvements

- More windows-like PC affinity
- Consistent family image, including VTxxx
- Improved management via NSM GUI
- Integrated all V1R3 PTFs
- Extensive on-line help, with keyboard function definitions

