IBM Network Station<sup>™</sup> Family of Thin Clients Access for today, flexibility for tomorrow

# Network Station Manager V2R1 VTxxx Client Overview

August 29, 1999

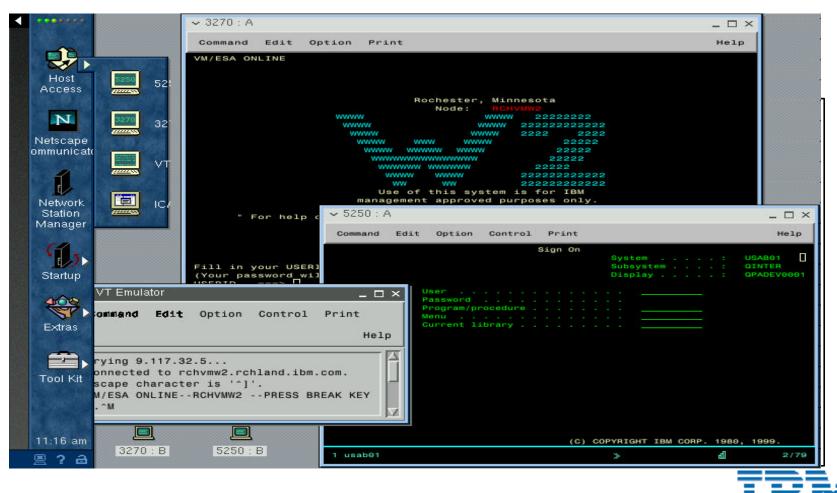




## V2R1 Terminal Emulation Enhancements VTxxx

### 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>
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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!

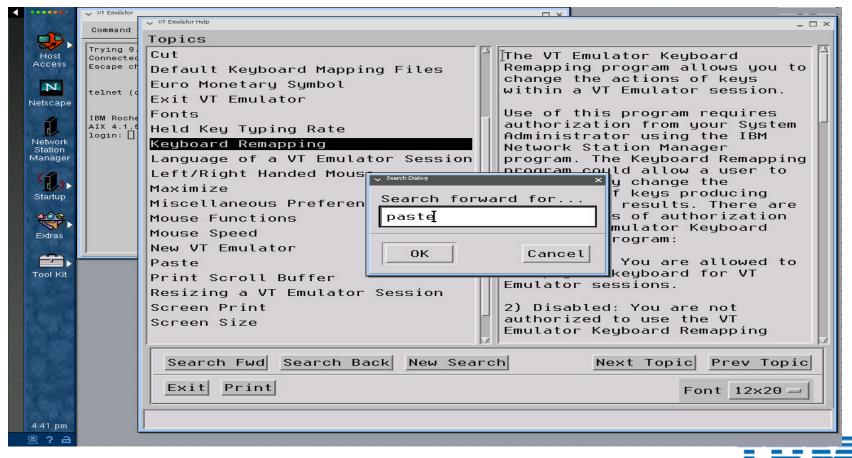
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Host Access	<u>` 1 2 3 4 5 6 7 8 9 0 - =</u>	BackSpace Ins Hom Pag Num / * -
Netscape	Tab Q W E R T Y U I O P [	] \ Del End Pag 7 8 9 +
	Caps Loc A S D F G H J K L ; '	Enter 4 5 6
Network	Shift Z X C V B N M , . /	Shift Up 1 2 3 Ent
Station Manager	Ctrl_L Alt Alt	Ctrl_R Lef Dow Rig 0 .
<b>I</b> ,	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()
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		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>	<ul> <li><u>Key remapping capability</u></li> <li><u>Default keyboard files</u></li> <li>Allow use of settings:</li> </ul>	
Serial Devices Applications: 5250	<ul> <li><u>Command menu</u></li> <li><u>Edit menu</u></li> </ul>	
3270 VT Emulator	<ul> <li><u>Option menu</u></li> <li><u>Print menu</u></li> <li>Help menu</li> </ul>	
<u>Netscape</u> <u>Applet Viewer</u> <u>ICA Remote</u>	<ul> <li><u>Control menu</u></li> <li><u>Miscellaneous preferences</u></li> <li>Font menu list</li> </ul>	
Application Manager	Advanced settings:	
Desktop: Display Launch Bar	<ul> <li><u>Use Latin character set</u></li> <li><u>Use Vertical Scrollbar</u></li> <li><u>Start Debug Log</u></li> </ul>	=
Environment: General Network	O Lines to satie in huffer	
Language Administration:	Back Next Close	
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# 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

