

Netvista Express Configuration Tool



5/23/00

IBM NetVista Thin Clients
Access for today, flexibility for tomorrow



Configuration Tool Overview



Highlights

▶ Self managed, client based tool

- ◆ On flash, always available
- ◆ No Network dependency
- ◆ Can be password access protected

▶ Autostarts

- ◆ Always running
- ◆ Provides immediate presence, out of the box
- ◆ Just a hot-key away (Alt-Control-Shift)

▶ Immediate results

- ◆ Soft-reset (limited reboot), new config effective in seconds
- ◆ Preserves many config parameters through desktop mode changes



Configuration Tool Overview



Managed parameters

ICA parameters

Remote Application Manager parameters

5250 parameters

3270 parameters

VTxxx parameters

Desktop preferences,

including auto-start configuration, presence or absence of launch bar

Printer configuration (parallel only, network availability)

NLS (Lang and locale preferences)

Environment variables

Hardware, including mouse and keyboard parameters

Toolkit/Diagnostic operation configuration

SNMP community names, Admin Password

CT's own parameters controlling its own operational characteristics

Software upgrade and configuration file import enablement



Configuration Tool Overview



Differences from NSM

- ▶ **Extensive In-Line Help**
 - ◆ With search and topic index

- ▶ **Faster, simpler access**
 - ◆ (Always available directly on the workstation)

- ▶ **Single user/device orientation**
 - ◆ No groups
 - ◆ No End-User versus Admin function sets

- ▶ **Kiosk style authentication**
 - ◆ No user ID associated with the device
 - ◆ Screen lock and Admin passwords only
 - ◆ Defaults to "open box" mode, external access allowed



Configuration Tool Overview



CT and Netvista Express Limitations & NSM diffs

- ▶ **No desktop applications**
 - ◆ No editor, calendar, calculator, or multimedia players
- ▶ **CT won't manage other applications than IBM provided defaults**
 - ◆ CT can't be expanded (in the field) to manage additional apps
- ▶ **M2 required to return CT managed client to server managed client**
 - ◆ M2 = IBM NetVista Express Thin Client Manager Operations Utility
 - ◆ M2 will initiate mode change with R/W flash flag update to lockout CT
 - ◆ There is no CT option to relegate configuration control to a server
- ▶ **No login authentication panels appear in any supported scenarios**
 - ◆ NetVista Express workstation does not support Login
- ▶ **External access to Xterm functions is disabled**
- ▶ **No serial device config, or touchscreen support**



Configuration Tool Overview



- ▶ **CT will be available in English only for the initial GA.**
All V2 NLS locales & translated MRI supported on client applications
- ▶ **CT by default will always autostart as part of the shipped profiles**
- ▶ **CT will support password access to itself**
Restricts end-user unauthorized changes and updates.
- ▶ **Flash management functions**
Configure remote access authorization
Request remote server update
- ▶ **CT does not run on peer-booted stations down stream**
Peer booted stations are EXACT clones of master station configs



"Genesis Mode"

- ▶ **Power applied for the first time since manufacture**
 - ◆ "Genesis boot"
 - ◆ CT genesis operations controlled via a separate file `gen_cp.nsm`
- ▶ **NSBoot runs with restricted set of screens**
 - ◆ Keyboard language
 - ◆ Monitor Resolution
 - ◆ TCP/IP settings
- ▶ **NSBoot loads kernel from flash**
- ▶ **Kernel initializes**
 - ◆ No login required
- ▶ **registry initialized for full screen operations**
- ▶ **Configuration Tool appears (autostarted, full screen)**
- ▶ **User configures the initial settings**
- ▶ **User confirms and "saves & exits"**
 - ◆ Configuration saved to flash, primarily in "`cp.nsm`"
- ▶ **New configuration starts after "soft" reboot ~ 15 seconds**



"Genesis Mode" detail

- ▶ **Configuration Tool (CAM) appears (autostarted, full screen)**

- ▶ **First screen selects major mode:**
 - ◆ Kiosk, full screen single ICAsession
 - ◆ Kiosk, full screen single 3270session
 - ◆ Kiosk, full screen single 5250session
 - ◆ Kiosk, full screen single VTxxx session
 - ◆ Multiple autostarted apps, with window manager
 - ◆ Full desktop, with launchbar, window manager

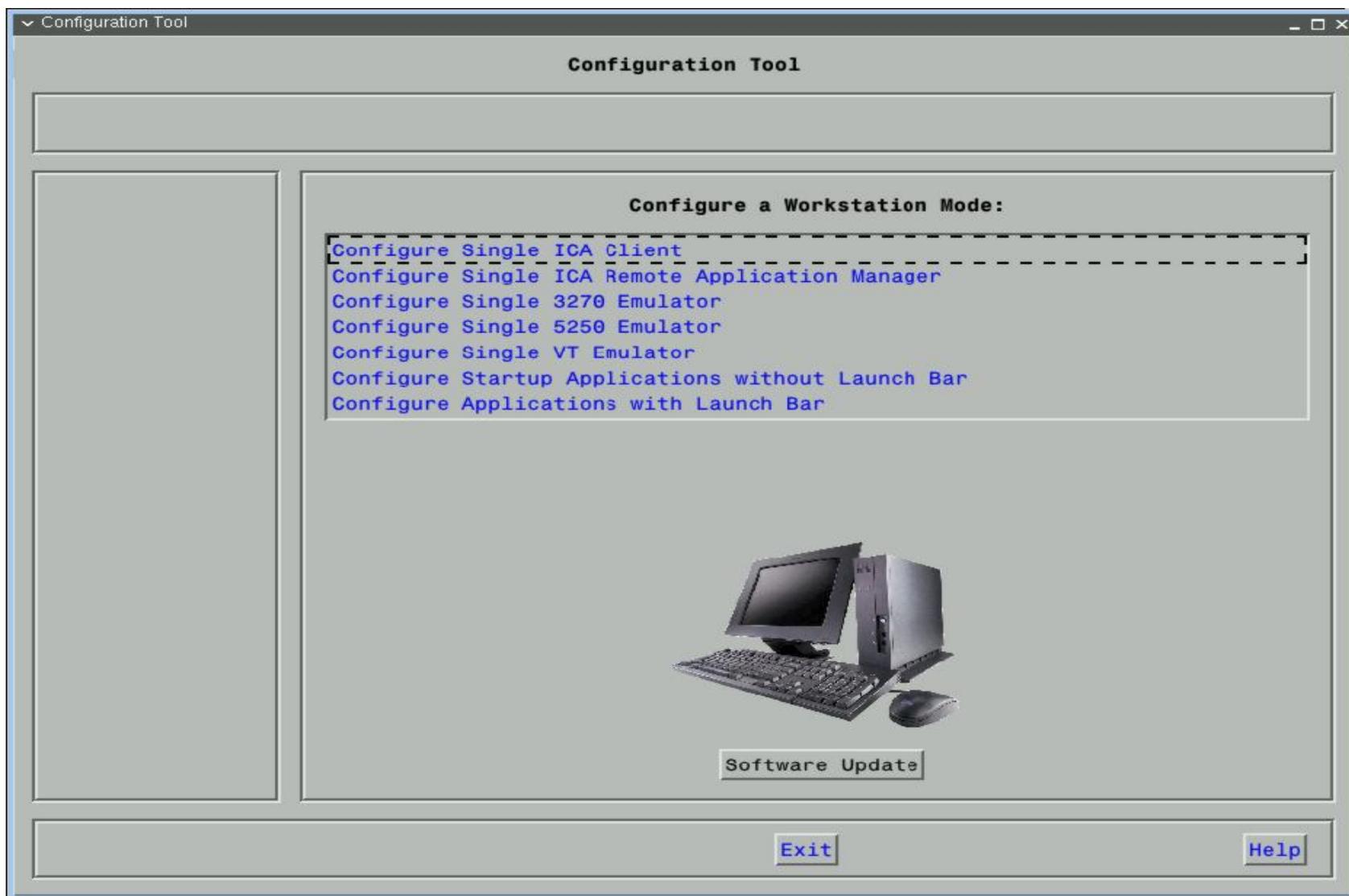
- ▶ **See the next slide for this screen image**



CT first screen (after NSBoot)

NetVista

NSBoot sets keyboard language, monitor resolution, TCP/IP
This panel selects the main desktop modality & application





CT Overview - Genesis example



- ▶ **Assume we wish to run ICA as a single, full screen application**
 - ◆ **Here's what happens next.....**
 - ✓ Description and server name fields are mandatory

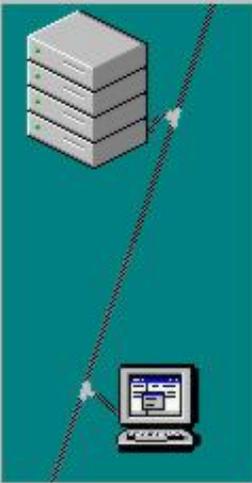


ICA Full Screen, required parameters



Configuration Tool (2)

Configure ICA Client



Enter a description for the new ICA Connection:

My ICA

Select the ICA server or published application to which you want to connect:

Server Published Application

My App

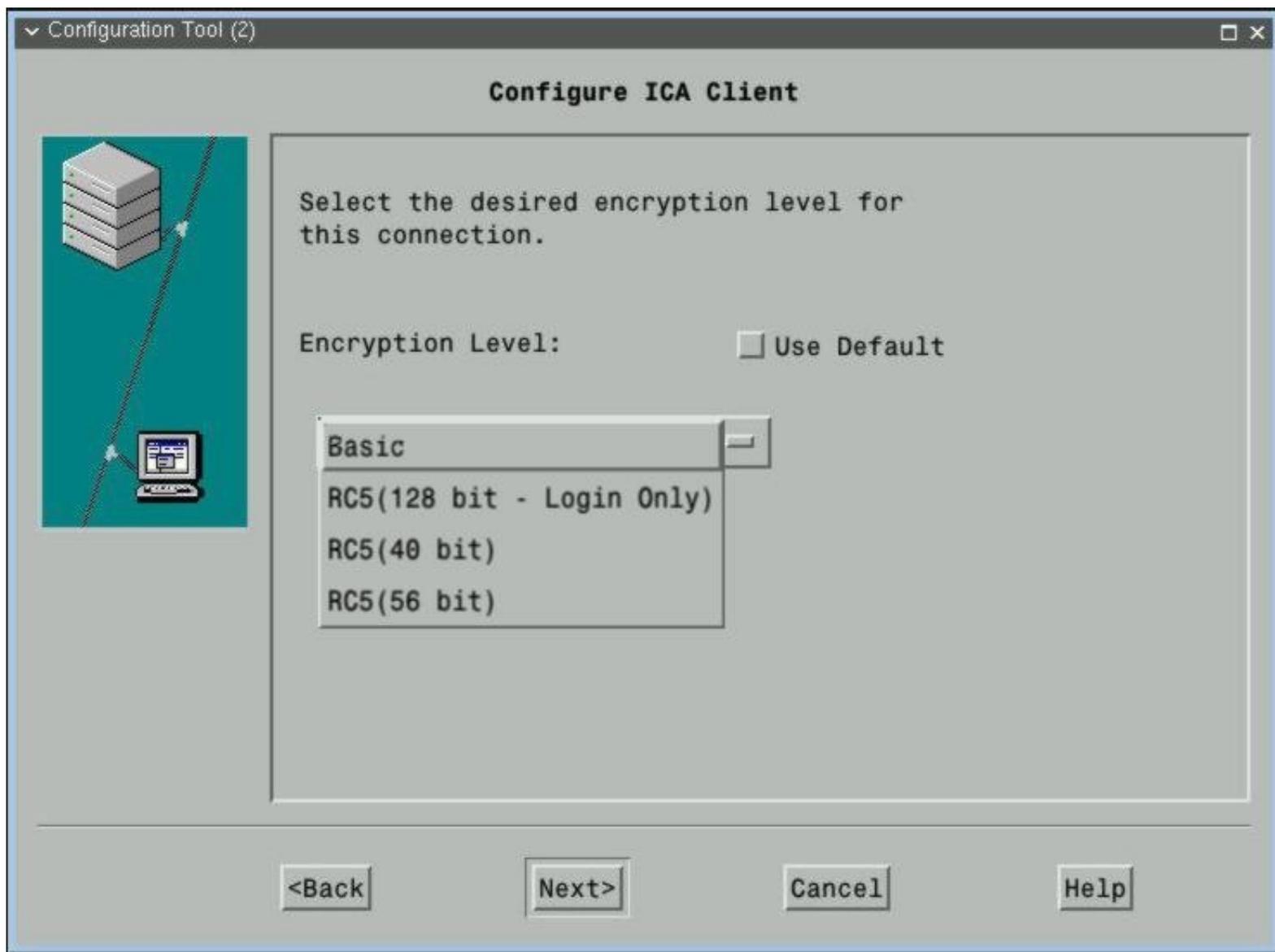
You can change your server location settings by clicking server location.

Primary ICA Server: (Auto Locate) Server Location...

<Back Next> Cancel Help



ICA full screen, Optional Encryption



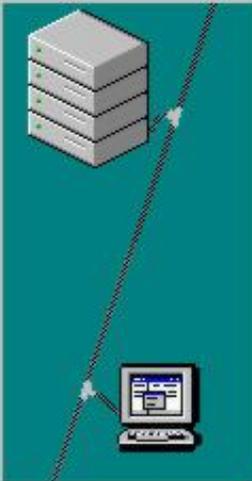


ICA Full Screen, Optional User ID



Configuration Tool (2)

Configure ICA Client



Enter a Username, Password, and Domain to use with this Connection. If you leave these fields blank, you will be prompted for this information when you connect.

User name:

Password:

Domain:

<Back **Next>** Cancel Help

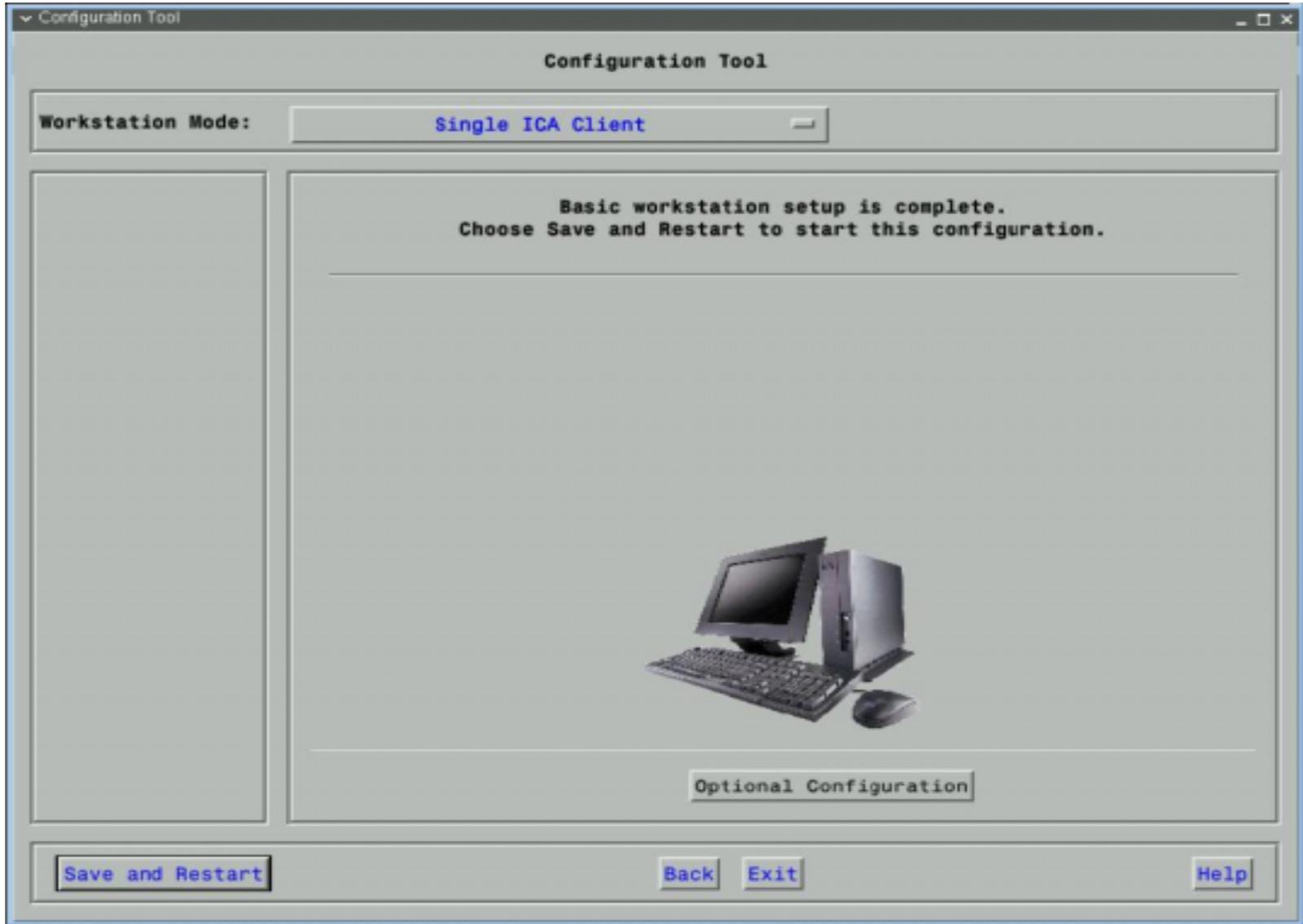


ICA Full Screen, final panel



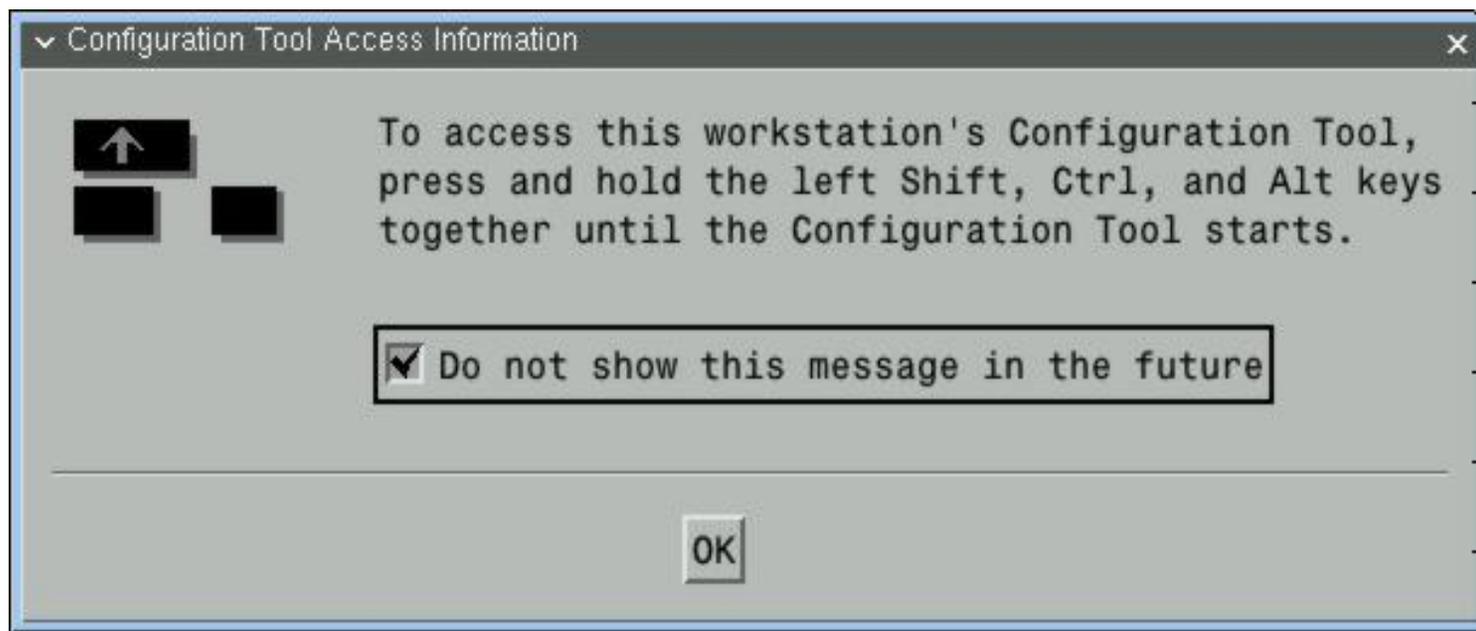


CT final screen, save and restart





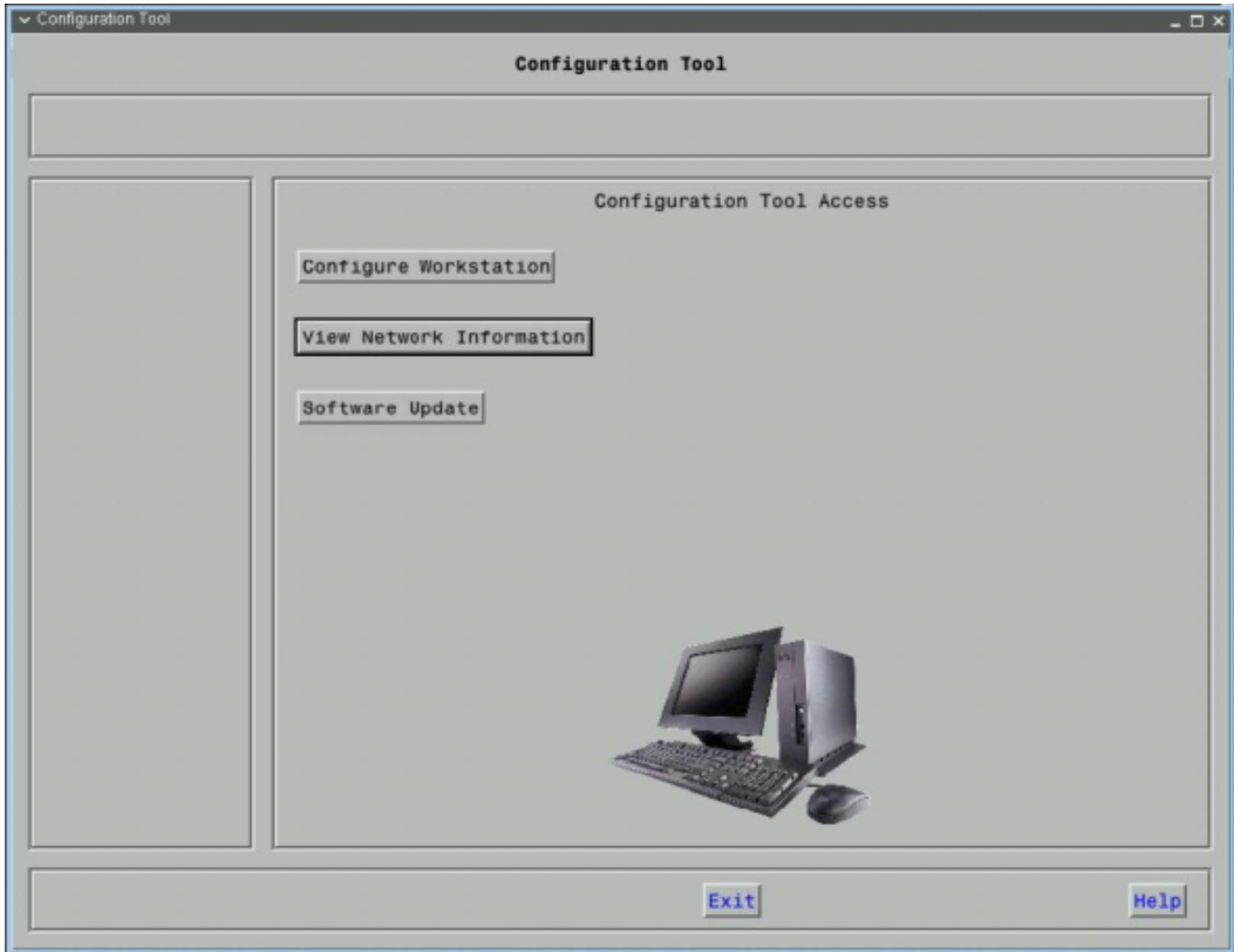
New Config active "reminder" panel



Remind user about hot key sequence

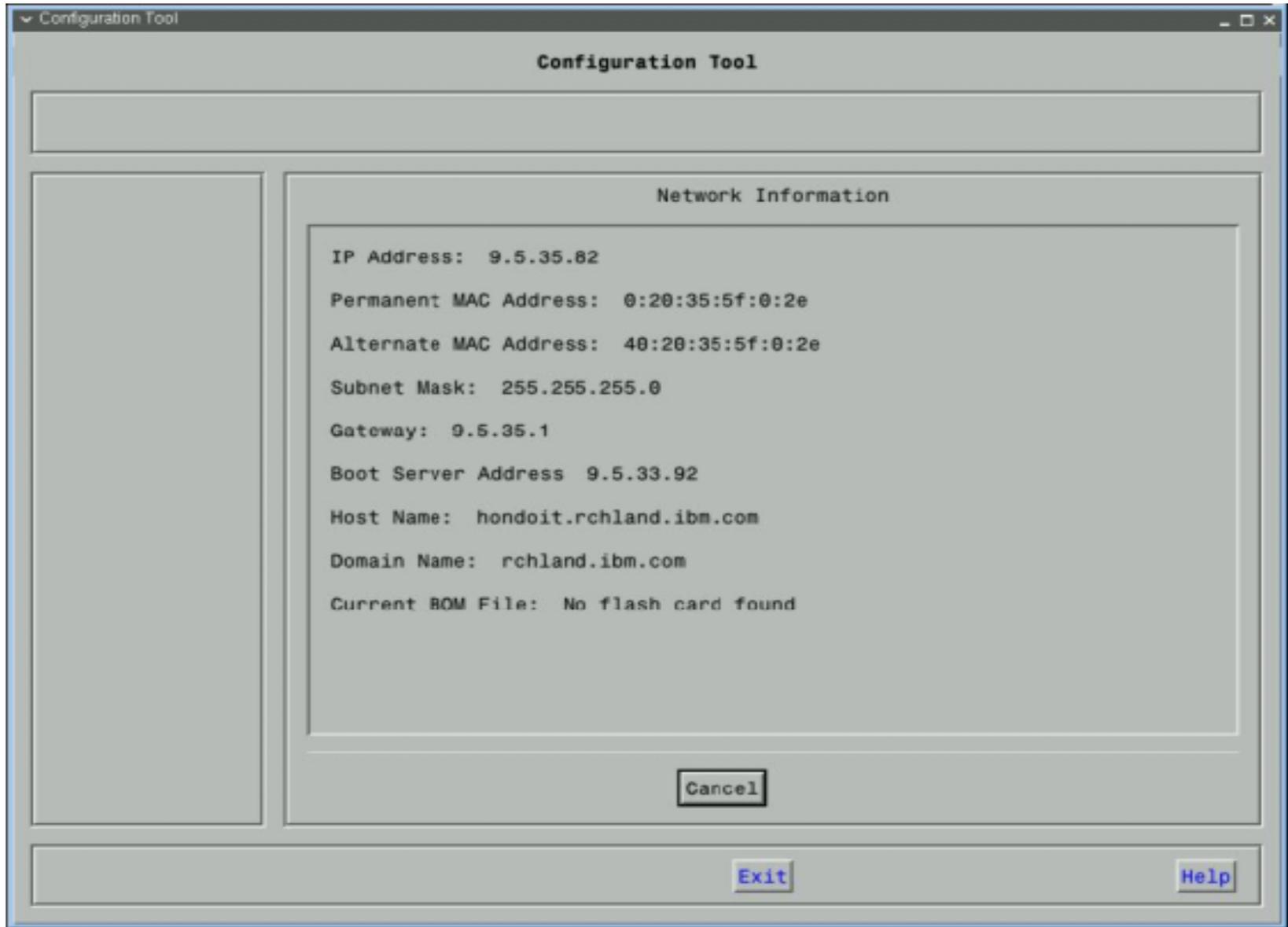


Preselect panel, after hot key



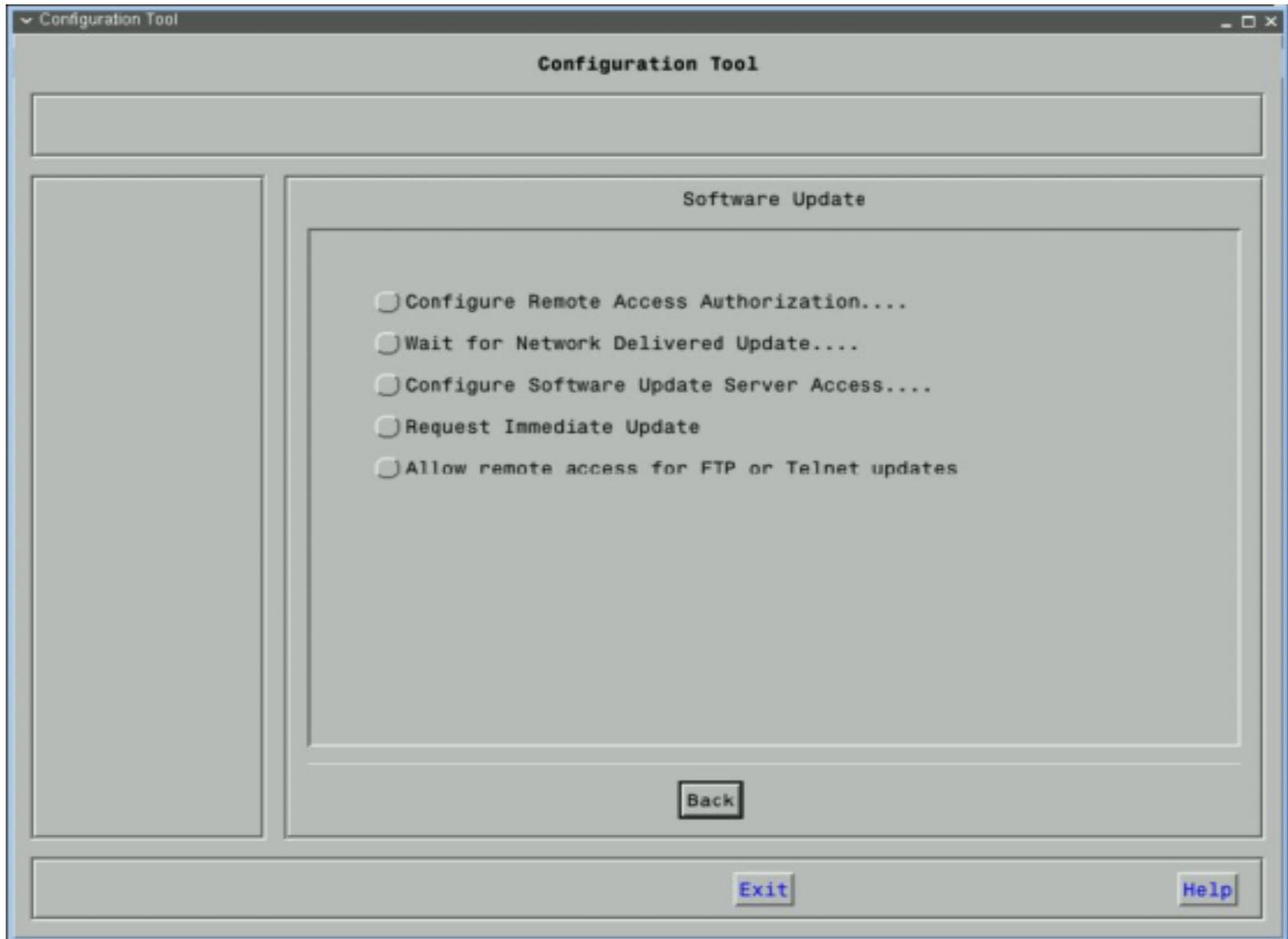


View Network Parameters





Software update main panel





Configure update external access rights

Recent Changes in this area: default enable access



The screenshot shows a 'Configuration Tool' window with a sub-dialog titled 'Configure Remote Access Authorization...'. The dialog contains the following fields and controls:

- Administrator password: []
- SNMP Read Community Name: [public]
- Reset Read Community Name
- SNMP Read Community Name Alternate: [public]
- Reset Read Community Name Alternate
- SNMP Read/Write Community Name: []

Buttons at the bottom include 'OK', 'Cancel', 'Exit', and 'Help'.



Configure update server pointer



Configuration Tool

Configuration Tool

Configure Software Update Server Access

Enter the Software Update Server IP address: 0.0.0.0

Change the following two fields if the Update Server is not a Windows(TM) system

Firmware Update Server File System Type: NFS

Directory Path for the update file: /NS/flashbase/x86

Change the following field if a different model type or version is required

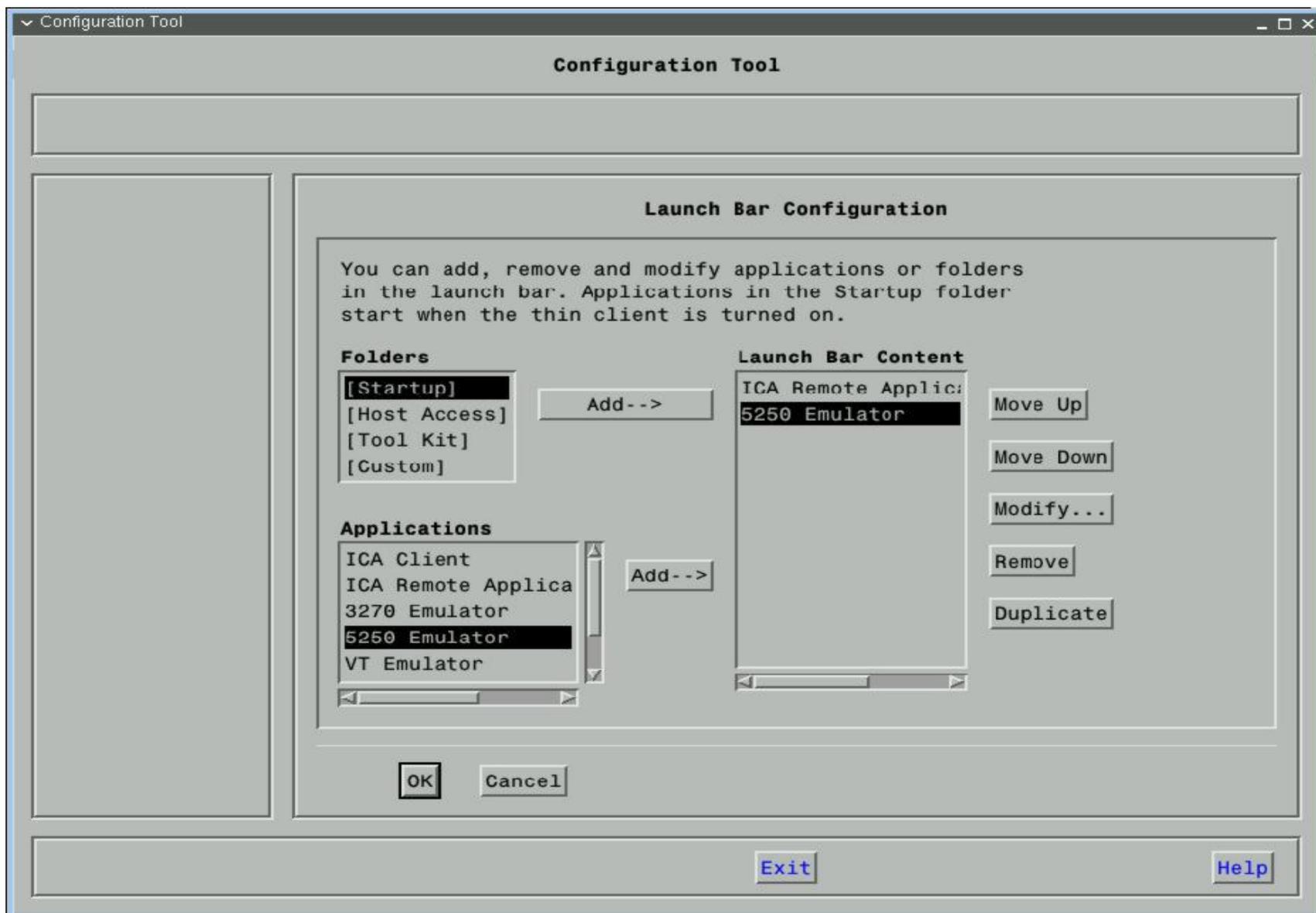
Software update file list name: No flash card found

OK Cancel

Exit Help



Launch bar and auto start configuration





Netvista Express Configuration Tool



Areas of known concern

- ▶ **Screen Saver, desktop themes**
 - ◆ Not provided, no management options
- ▶ **Boot times**
 - ◆ Little indication of "busy hourglass" at times
 - ◆ 2 Minutes for 2200 with single application running
- ▶ **Help viewer load performance**
 - ◆ Help viewer load time 20 seconds, no hourglass
- ▶ **5250/3270 Emulators do not autorestart**
 - ◆ In multiple application autostart mode, and full desktop mode only
- ▶ **Community names on peer boot devices**
 - ◆ No means to set community names on downstream devices
 - ✓ If not at latest NSBoot code level for Express
- ▶ **No "logout" button**
 - ◆ Consequence of Kiosk mode - use screen lock, instead