

*IBM Network Station Family of Thin Clients*  
*Access for today, flexibility for tomorrow*



# Network Station Manager V2R1 Install

**August 29, 1999**





# V2R1 Install Overview - What's new

- Co-Existence with V1R3
- New Base Directories
  - ▶ **.../NetworkStationV2/...** (replaces NetworkStation or nstation)
- Component Install (granularity varies by server)
- Post-Install Migration (ran as part of install in V1R3)
- Setup Wizard (AS/400 GUI post-install)
- 128 Bit Product Install changes
- CD delivery only

## What's the same

- *Platform specific Install (RSTLICPGM, installp, InstallShield)*



# Coexistence

## ■ V1R3

- ▶ supports models (1000, 300, 100)

## ■ V2R1

- ▶ supports x86 models (2800, 2200)
- ▶ supports Power PC (PPC) models (1000, 300 non-twinax)
- ▶ does NOT support 300 twinax or 100

## ■ Scenarios:

- ▶ Replace V1R3 with V2R1 (if no model 100 or 300 twinax)
- ▶ Use both V1R3 and V2R1
  - on one single server (Coexistence)
  - OR V1R3 on one server, V2R1 on another

## ■ Separate kernels and boot settings for each release



# Server Coexistence

- **Dual product directory structures**
  - ▶ V1R3: ..../NetworkStation/.... or .../nstation/....
  - ▶ V2R1: ..../NetworkStationV2/....
  - ▶ Complete V2R1 directory structure: w3.rchland.ibm.com/~nwsinfo/
- **Dual AS/400 server libraries (QYTC and QYTCV2)**
- **V2R1 can install with or without V1R3 present on server**
  - ▶ V1R3 required previous version to be removed
- **NSM versions are both installed and running**
  - ▶ separate URLs for V1R3 and V2R1 (x.x.x.x/networkstationv2/.....)
- **V2R1 NSLd (Login daemon) coexists with the V1R3 version**
  - ▶ Only one NSLd can run at a time
  - ▶ V2R1 can handle login requests for both V2R1 and V1R3 clients.
  - ▶ Setup Wizard stops V1R3 NSLd and starts V2R1 NSLd
  - ▶ Can also be stopped/started manually.

# Component Install



- Also known as: Granular Install, Installable Units
- Granularity varies by server platform (selected at install)
  - ▶ AS/400 uses OPTION(\*BASE)-x86 or OPTION(1)-ppc
  - ▶ Microsoft Windows NT uses selection box with components listed
  - ▶ AIX uses required and optional filesets under SMIT install function
- Select x86 (2800, 2200) / ppc (1000, 300) models
- Base system (required, includes en\_US and minimal fonts)
- Fonts (complete set is required)
- Select Languages
- Select Applications (Browser, Java, etc)
- Verify Installed Units
  - ▶ BOM files listed under \$Prodbase (also used by flash)
  - ▶ Group must first be installed to be used by flash
  - ▶ NetworkStationV2/instop.txt file on Windows NT lists installed groups



# Component Install Groups

- ▶ **Both x86 and ppc architectures**
  - *Base\_OS (\*\*required\*\*)*
  - *Emulation*
  - *ICA\_Client*
  - *ICA\_RemoteAppMgr*
  - *Fonts\_typical (\*\*included in fonts\_complete\*\*)*
  - *Fonts\_Complete (\*\* required, due to problems breaking up fonts \*\*)*
  - *Java*
  - *Netscape*
  - *NFSPeerBoot*
  - *NLS\_<all supported locales> : da\_DK, de\_CH, de\_DE, en\_GB, es\_ES, es\_LA, fi\_FI, fr\_BE, fr\_CA, fr\_CH, fr\_FR, it\_CH, it\_IT, nl\_BE, nl\_NL, no\_NO, pt\_BR, pt\_PT, sv\_SE, ja\_JP*

**Note: en\_US is included under Base\_OS**

- ▶ **NSM**
- ▶ **NSL**

# Migration Utility

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- **Does not run automatically during install**
    - ▶ Windows NT presents an option at start of install to run Migration at end
    - ▶ Other platforms run from command line after install (Windows NT can also)
  - **Can be called repeatedly**
    - ▶ Can migrate in stages instead of all at once
    - ▶ Can migrate users, groups, terminals (individually or \*ALL)
    - ▶ can migrate V1R3, change V1R3 config, then re-migrate to pick up latest changes
    - ▶ Config changes made to V2R1 are lost if you re-migrate later
  - **Still have option of migrating entire system at once (-A)**
  - **Can run before or after deleting V1R3**
    - ▶ V1R3 Userbase must be present to run migration
    - ▶ NVRAM Client Migr Enablement option (-c) must run before deleting V1R3 (allows boot monitor to set NVRAM to V2R1 settings)
  - **Providing S/390 -> AS/400, Windows NT, AIX migration**
    - ▶ URL: <http://www.ibm.com/nc/>



# Migration Utility Details

## ■ What's migrated:

- ▶ NSM config files (preferences, desktop, etc)
- ▶ Browser files (bookmarks, prefs, address book, cookies)
- ▶ Emulator (non-nsm), NSLd config, kiosks.nsl

## ■ Utility runs on each server platform

- ▶ AS/400: CALL QYTCV2/QYTCMUMU ( <parms> )
- ▶ Window NT: nsmv2migr <parms>
- ▶ AIX: nsmmigr <parms>

## ■ Parms:

- ▶ -A : entire system
- ▶ -U : name of user or \*ALL
- ▶ -G : name of group or\*ALL
- ▶ -T : name of terminal or \*ALL
- ▶ -C : enable Client Migration (boot monitor supplies V2R1 NVRAM settings on next boot)
- ▶ -P : alternate path for source configuration (enables dual server for Windows NT and S/390 migration to all other server platforms)



# Migration: Configuration structure

## V1R3 Structure

- **\$USERBASE/**
  - ▶ **home/**
  - ▶ **groups/**
  - ▶ **users/**
    - user1/
      - *\*\*\*.nsm*
      - *<directories>*
      - *pref*
      - *Desktop*
    - user2/
      - *\*\*\*\*\**
  - ▶ **StationConfig/**
    - *\*\*\*.nsm*
  - ▶ **SysDef/**
    - *\*\*\*.nsm*
    - *<directories>*
    - *pref*

## V2R1 Structure

- **\$USERBASE/**
  - ▶ **home/**
    - user1/
    - user2/
  - ▶ **nsmshared/**
  - ▶ **profiles/**
    - *allncs.nsm*
    - *allusers.nsm*
    - *shipped.nsm*
  - **groups/**
    - *group1.nsm*
  - **ncs/**
    - *nstatn1.nsm*
  - **users/**
    - *user1.nsm*
    - *user2.nsm*



# 128 Bit (5648-C08) Install

- Base Product (5648-C07) must be installed first
- C08 includes: Netscape, ICA, SSL
- 40 bit versions in C07
- Component Install supported
  - ▶ same installable groups as C07
- Install copies 128 bit files to C07 directories and resets links
- Packaged together with C07 for North America



# Un-Install & Re-Install

- **Use platform specific programs to Uninstall**
  - ▶ **AS/400: DLTLICPGM**
  - ▶ **Windows NT: Install Shield - Un-Install**
  - ▶ **AIX: SMIT - Remove Installed Software**
- **Uninstall C08 (if installed) prior to C07**
- **Uninstall C07**
  - ▶ **Stop V2R1 Login daemon before uninstall**
  - ▶ **Start V1R3 Login daemon (in coexistence scenario)**
  - ▶ **reset NVRAM settings to V1R3 values**
- **Each product may be re-installed over itself**



# Install Steps - AS/400

- **RSTLICPGM LICPGM(5648C07) DEV(OPT01) OPTION(\*BASE) | OPTION(1)**
- **Checks prereq PTF(s)**
- **Product Load - directory structure & files**
- **Create empty directories**
- **Create Links**
- **Cleanup / Config**
- **Copy files from prodbase to userbase**
  - ▶ **Create / Modify config files with system values**
  - ▶ **set permissions**
  - ▶ **Set system values (timezone link, security)**
- **Additional AS/400 setup handled by Setup Wizard**



## Install support - AS/400

- **Requires V4R2 Operating System or later**
- **DSPSFWRSC - verify the existence of C07, C08**
- **Documentation - SC41-0684**
  - ▶ **Installation Guide for AS/400**
  - ▶ **Includes migration documentation**
  - ▶ **Includes Setup Wizard help**