



WIN-PAK 2.0 Overview

Introduction

WIN-PAK 2.0 will be marketed differently than WIN-PAK 1. The key differences are 32-bit support in Windows '95, '98 and NT 4.0, Badging will be included and network Clients are sold as add on modules to the standard WIN-PAK 2.0. A copy protection/verification scheme will be implemented to ensure that each computer will have its own licensed copy of WIN-PAK 2.0. There will be a cost increase for WIN-PAK 2.0 over WIN-PAK version 1.

Hardware Basics

Requires that the N-1000 control panels have at least version 8.02 level of firmware.

Computer recommended minimums are 128mb RAM, P-II 233 MHz, 256 color and 800 x 600 screen resolution. Preferred configuration is P-II 300, 128mb RAM, 17" monitor running 24 bit 1024 x 768 or better, sound card and speakers optional

Supported operating systems are Windows '95, '98, NT4.0 (Windows 3 series will not be supported). NT operating system is recommended for systems having more than eight comports or more than five workstations. NT service pack 4 will be shipped with NT4.0.

Video badging will require the PB-VC-8 or PB-VC-9 video card (will not be compatible with previous video cards used in WIN-PAK version 1).

Communications

Windows NT: Supported communications ports and devices, including modems, are any devices supported by the NT operating system. NT does not support the existing WIN-EXP-8 and WIN-EXP-16 Boca boards. The WIN-EXP-DI-16 board is being reviewed but does not seem to be supported by NT. All devices installed on Windows NT should be Microsoft compliant. Refer to Microsoft's web page for the Hardware Compatibility list.

Windows '95, '98: Supported communications ports and devices, including modems, are the same as WIN-PAK version 1 except dial-up modems will be only supported on COM 1, COM 2, COM 3 or COM 4 as defined by Windows. Dial-up modems will not be supported by any of the multi-port boards. You may mix the PC's COM 1, 2, 3, 4, with the existing multi-port board. WIN-PAK 2.0's utilization of comports in this manner will allow the use of an internal modem as defined by Windows which was previously not supported for WIN-PAK 1.

Refer to the chart on the following page for further clarification.

	WIN-PAK 1.15 Windows '95/'98	WIN-PAK 2.0 Windows '95/'98	WIN-PAK 2.0 Windows NT 4.0
TWAIN Interface	Yes	Yes	Yes
PB-VC-7	Yes	No	No
PB-VC-8	No	Yes	Yes
PB-VC-9	No	Yes	Yes
WIN-EXP-8	Yes	Windows '98 direct connect - No dial-up*	No
WIN-EXP-16	Yes	Windows '98 direct connect - No dial-up*	No
WIN-EXP-DI-16	Yes	Windows '98 direct connect - No dial-up*	No
DataCard IC3 series	Yes	Yes	Yes
Fargo series	Yes	No to magstripe and duplex printing	No to magstripe and duplex printing
Magicaard series	No to magstripe & duplex printing	No to magstripe and duplex printing	No to magstripe and duplex printing
NT-EXP-DI-4	No	No	Yes **
NT-EXP-DI-8	No	No	Yes **
NT-EXP-DI-16	No	No	Yes **
NT-EXP-DI-32	No	No	Yes **
NT-EXP-DI-64	No	No	Yes **

*Dial-up supported by com1, com2, com3 and/or com4 as supported by Windows '98.

**Version 2.0 will work in either dial-up or hardwire configurations with any multiport board (up to 64 ports) supported by Windows NT 4.0.

PB-VC-8 is like the PB-VC-7 except that it provides a non-destructive overlay (the arrows will be seen over the "Live Video" view for P/T/Z).

PB-VC-9 is similar to the PB-VC-8 except it can support RGB cameras.

NT-EXP-DI-xx assemblies are Intelligent DIGI boards.

System Concepts

There are several major concepts to be reviewed before installing WIN-PAK 2.0.

Abstract DeVice (ADV)

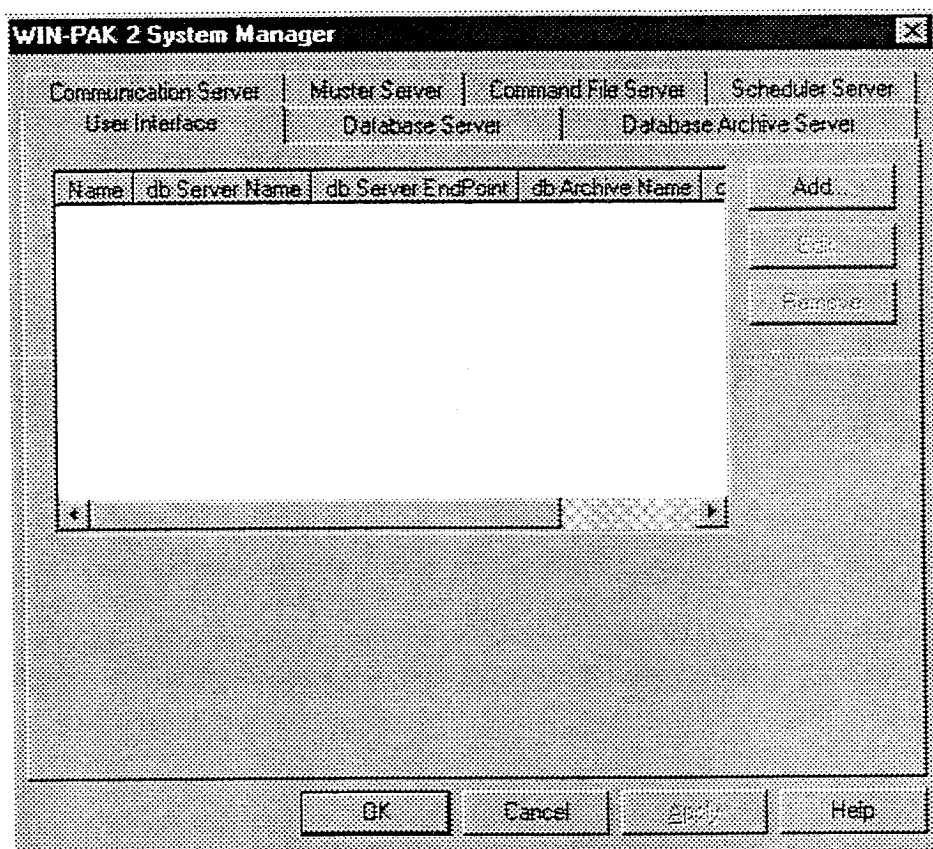
Unlike WIN-PAK 1 which was written around the N-1000 control panel, WIN-PAK 2.0 is written to accommodate not only the N-1000 but the forth coming N-5000 (Symphony) and other "Abstract DeVices" that may be added in the future. The ADV allows the device's unique operation to be incorporated within the WIN-PAK 2.0 program allowing several devices to appear similarly to the operator. For example, the door control icon used in WIN-PAK 2.0's floor plan graphics allows the user to lock, unlock, shunt, un-shunt, return to time zone, pulse or send a programmable pulse to the door relay. What is transparent to the user is that the door device may be from an N-1000 or another controller not yet developed.

Separate Servers

In WIN-PAK 1, all communications, database, reports and control functions come through the single WIN-PAK 1 computer. In large systems, a tremendous demand is placed on the single computer. Even with clients running in a WIN-PAK 1 network, all database and communications still run through the single WIN-PAK 1 server.

WIN-PAK 2.0 will run like WIN-PAK 1 on a single server (stand-alone) or with clients. In larger systems, WIN-PAK 2.0 can allow the communications to be handled by a single communication server, the databases can be handled by a separate database server and the user interface on still a different computer. This kind of layout provides a distribution of system activities and processes across the defined computers therefore, significantly improving the system performance.

WIN-PAK 2.0 System Manager allows the definition of these servers. Seven different services can be utilized; they are the User, Database, Communication, Guard Tour, Scheduler, Command File and Muster Servers.



Database Engine

WIN-PAK 1 uses Codebase for its database. WIN-PAK 2.0 in the standard configuration will use the Microsoft Access database engine. The Access engine that is used is already packaged in WIN-PAK 2.0. You will not need the Microsoft Access software program on the computer. A user may use Microsoft Access on the WIN-PAK 2.0 database (report generation and importing/exporting data) provided he has the proper password (the WIN-PAK 2.0 Access database is password protected). It is not the intent for Northern to support the customers in this function. Northern's stand shall be one that discourages the user from going into the database as this generally causes problems with the proper operation of WIN-PAK.

Customers requiring the ability to interface with the WIN-PAK 2.0 database will need to use a software program from Northern. An API (Application Program Interface) will be available (scheduled for late '99) for customers who need to import/export data or control and monitor the WIN-PAK 2.0 system. The API will provide protection to the WIN-PAK 2.0 database ensuring that improper information will not be allowed to corrupt the database.

SUGGESTED ORDER OF PROGRAMMING WIN-PAK 2.0

Order of Programming of Win-Pak 2.0 is the recommended process to follow for a first time installation. Edits, changes or deletion of specific programming items should be referenced through the Win-Pak 2.0 User manual. The Path locations are for Version 2.0, Release 24.

Configuration – Hardware

1. **System Defaults** – *Global ADV Access and Clear on normal only.*
Path: System > System Defaults
2. **Workstation Defaults**– *Applies card number length, card deletion prompts Sound options, Wallpaper, Language and sound file locations and alarm printer settings.*
Path: System > Workstation Defaults
3. **Time Zone** - *Create time zone elements for all accounts.*
Path: Configuration > Time Management > Time Zone, Select Add
4. **Holiday Group** – *Create groups of holidays that can be applied to a panel.*
Path: Configuration > Time Management > Holiday Group, Select Add
5. **Device Map – Communication server/Loop/Panels**– *Right Click to add*
Path: Configuration > Device > Device Map
 - 5.1.1. **Communication Server**– *first to be added, right click, select add.*
Path: Configuration > Device> Device Map > Right Click on Device, select Add, then Comm Server.
 - 5.1.2. **Communication Loop** – *Other available options are modem pools, CCTV loops (includes camera & monitor listings), symphony module manager, Landis and JCI interfaces.*
Path: Configuration > Device> Device Map > Right Click on Comm Server, select Add, then Loop
 - 5.1.3. **N-1000 Panel** – *Make sure to add ADV's to the panel, inputs, outputs, groups, readers, doors. Without an ADV, you may not be able to select it in other sections. Can select panel types including N-1000 II/III/TV models.*
Path: Configuration > Device> Device Map > Right Click on Loop, select Add, then Panel
6. **Control Area** – *A logical tree and grouping of selected devices. Used in alarm, event and autocard lookup views. In the future, this tree will provide an alternate control to the system. ADV's must be created before using.*
Path: Configuration > Define > Control Areas, Right Click, Select Add
7. **Floor Plan Definition** – *Icons (panels, doors, readers, inputs....) are added and icon properties and ADV's are assigned. You will not be able to control the icon if no ADV is assigned. ADV's must be created before using.*
Path: Configuration > Floorplan > Floorplan Definition, Select Add
8. **Access Areas** – *A logical tree grouping entrances (geographic locations).*
Path: Configuration > Define > Access Areas, Right Click on Access Areas, Right click, add Branch
To add Entrance, right click on the branch, add Entrance
9. **Access Level** – *Uses access tree to select entrances and time zones*
Path: Card > Access Levels, Select Add

Cards – Note Fields/Badges/Autocard lookup/Cards/Cardholders/

10. **Note Field Templates** – Create account sensitive note field names.
Path: Configuration Cardholder > Notefield Template, Select Add
11. **Tab Layout** – Create account sensitive card holder tab
Path: Configuration Cardholder > Cardholder Tab, Select Add
12. **Autocard Lookup** – Allows you to select which note fields will be displayed when the AutoCard view is used.
Path: Configuration Cardholder > Autocard Lookup
13. **Bulk Card Add** – Allows a range of cards to be added to an account with a specific access level and activation/expiration dates.
Path: Card > Bulk Card Add
14. **Card** – Add a card to an account, sets access level, activation/expiration dates, limited use, badge layout and card holder if information is already programmed in.
Path: Card > Card, Select Add
15. **Card Holder** – Provides note fields for card holder information as well as badging and signature capture. Can assign or add a card(s) to this card holder. New functionality to attach and detach cards by cardholders.
Path: Card > Cardholder, Select Add

Badging

16. **Badge** - Badge DLL's – Setup the badging option (capture card, signature pad and printer if magnetic stripe or duplex printing is required).
Path: Configuration > Badge > Badge DLL's
17. **Badge** - Configure Badge Printer – General configuration.
Path: Configuration > Badge > Configure Badge Printer
18. **Badge** - Badge Layout – If created while logged into All Accounts, the layout will appear in all accounts. If logged into a specific account, only that account will have that layout.
Path: Configuration > Badge > Badge Layout Utility, Select Add

Operators

19. **Operator Level** – Add operator rights (view, operate, none), to devices in the control tree, databases and user interfaces.
Path: System > Operator Level > Click Add
20. **Operator** – Assigns individual operators to accounts, passwords and journal information and operator type.
Path: System > Operators > Click Add

Additional Configuration Issues

21. **Tracking Area** – A logical tree grouping entrances or readers, forming a tracking area.
Path: Configuration > Define > Tracking > Right Click > Select Add- Branch , Then Add Entrance
22. **Command File** – Uses ADV's to provide basic command structures using combo boxes. Then you can go back to the panels or action groups and add the command files.
Path: Configuration > Command Files > Select Add
23. **Backup & Restore Database-Maintain Win-Pak 2.0 Database.**
Path: Review User Manual