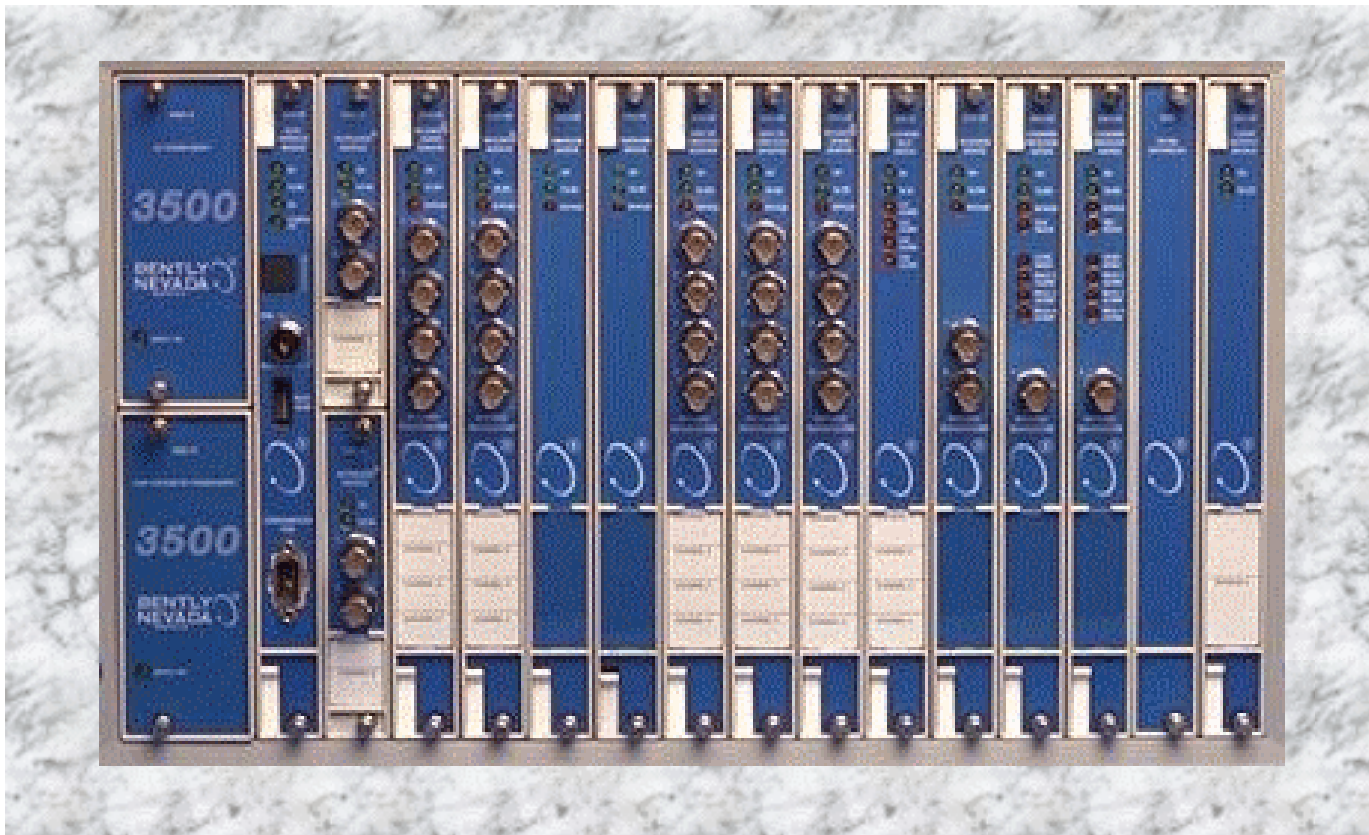


3500 框架组态

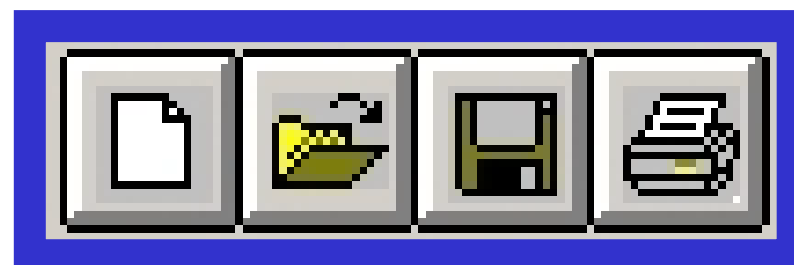
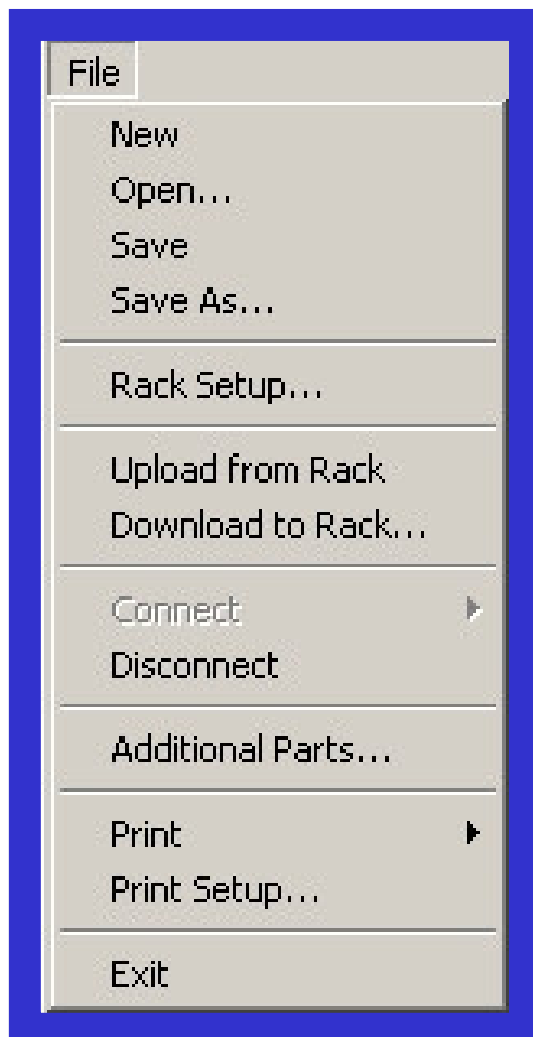


Rev K

软件文件的选择

- 新文件,打开文件,文件存盘,另存为
- 当系统连接时, 框架组态可以被存储, 用来恢复或作为日后参考
- 文件以 “.RAK” 为延长名, 并且用于在线或离线组态
- 打印及打印设置
 - 允许用户打印组态, 部件号, 或当前屏幕

文件选项



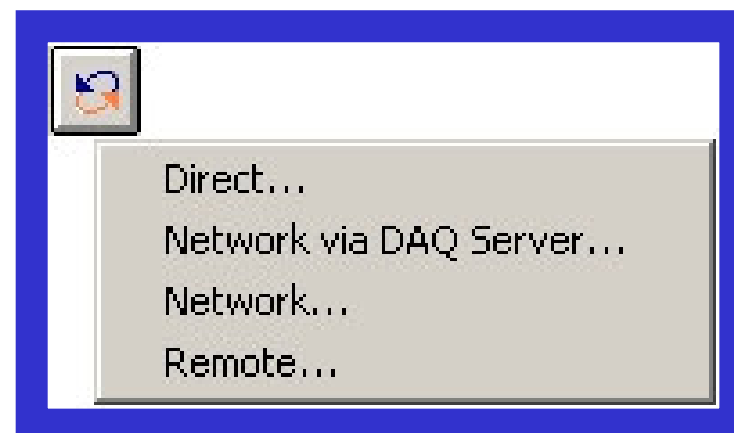
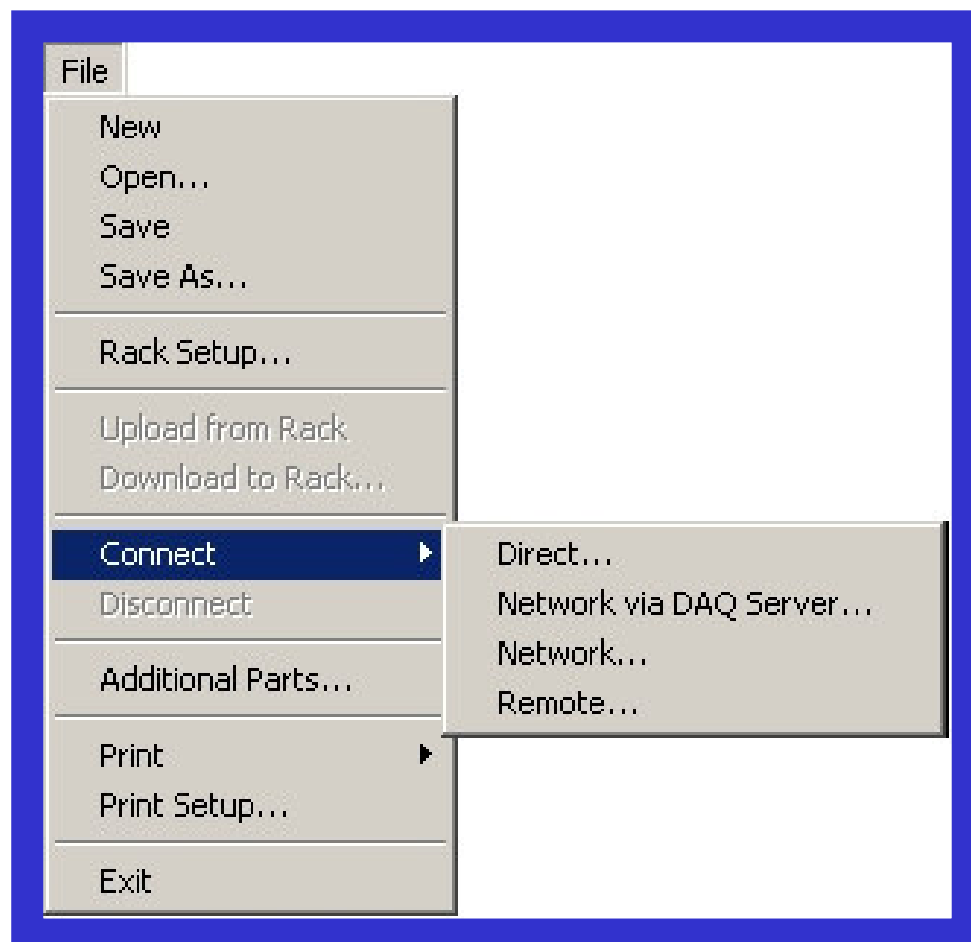
框架连接格式

- 直连
 - 通过串口连接
- 借助于DAQ服务，以网络的形式
 - 已运行DAQ服务的计算机与监测器相连

框架连接格式

- 网络
 - 允许用户以网络的形式连接到3500/22M TDI or /91 or /92
- 远程
 - 允许用户借助内部或外部调制解调器与RIM相连

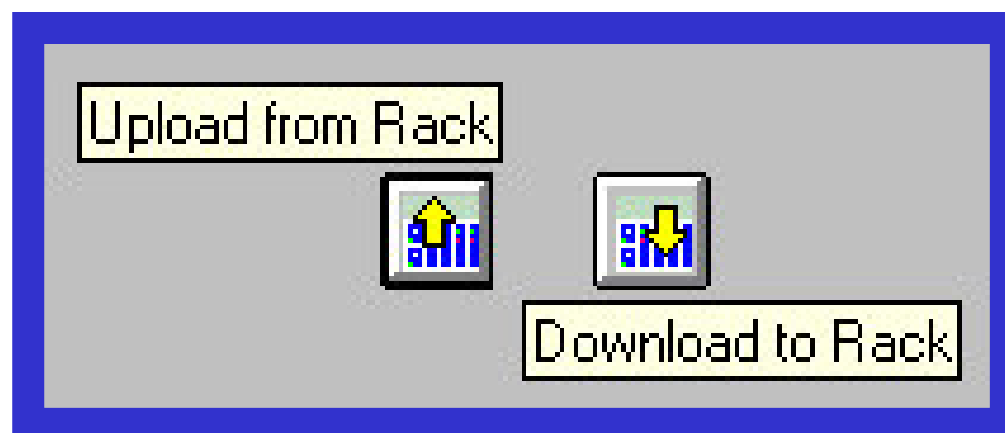
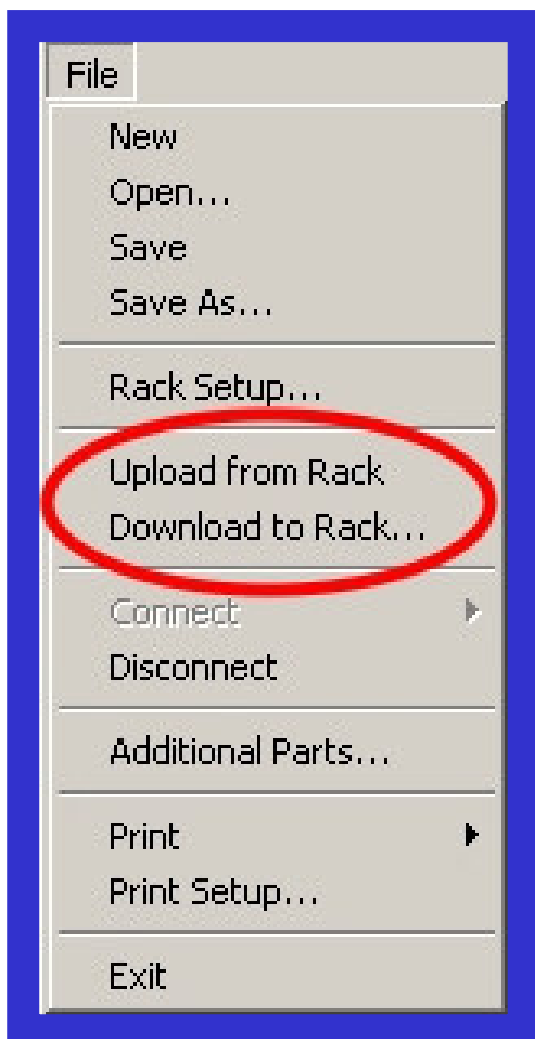
连接选择



组态数据的传递

- 由框架上装
 - 将框架中的组态及设置点上装到计算机的组态程序
- 下装到框架
 - 允许用户用计算机改变组态并下装到框架

上装或下装



接口模块的选择

- 左击 “Slot”按钮, 然后左击RIM模块选择TDI或RIM接口模块
- 选择 “标准”或 “三重冗余” 接口模块
- 选择全框架或小框架

接口模块的选择

Rack Setup

Interface Module

- ☐ Transient Data Interface (TDI)
- ☒ Rack Interface Module (RIM)

System Type

- ☒ Standard
- ☐ Redundant (TMR)

Rack Size

- ☒ Full Rack (15 Slots)
- ☐ Mini Rack (8 Slots)

OK

Cancel

Set Defaults

Print Form

Help

BENTLY
Nevada

框架接口模块的组态 (RIM)



框架接口模块的组态 (RIM)

The screenshot shows the 'Rack Interface Module (RIM)' configuration window. It contains several sections for configuring the module's ports, mounting, and power supply.

Config ID: [Empty text box]

Rear Port

- I/O Option:**
 - ☐ Internal Modem
 - ☒ RS232/422-Ext Modem
- External Modem:** [None]
- Initialization String:** [Empty text box]
- Byte Timeout:** [20]

Front Port

- External Modem:** [None]
- Initialization String:** [Empty text box]
- Byte Timeout:** [20]
- Dynamic Signal Option:** [Slots 2-7]

Rack Mounting Option

- ☐ Panel Mounted
- ☐ Rack Mounted
- ☒ Bulkhead Mounted

Power Supply Option

- Top:** [AC Low Voltage]
- Bottom:** [AC Low Voltage]

Connect Password: [Empty text box]

Configuration Password: [Empty text box]

Agency Approval

- [None]

☐ CE Approval

Buttons: OK, Security Options..., Cancel, Print Form, Help

BENTLY Nevada

瞬态数据接口的组态 (TDI)



瞬态数据接口的组态 (TDI)

The screenshot shows the 'Transient Data Interface (TDI)' configuration window. It contains several sections for configuring network and hardware settings:

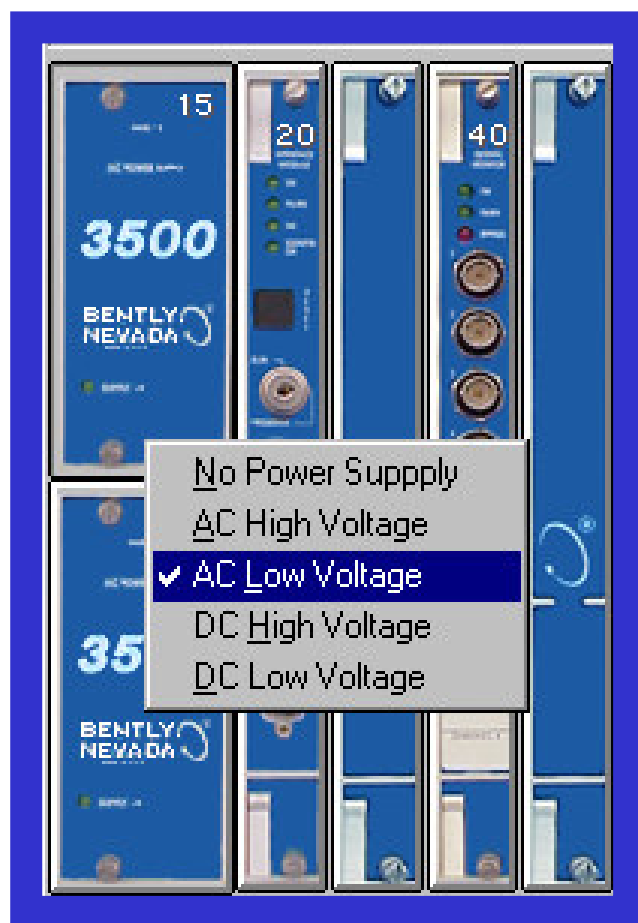
- Config ID:** A text field for entering a unique identifier.
- Rear Port I/O Option:** A dropdown menu currently set to '10/100 Base T'.
- Ethernet(TCP/IP):** A section with fields for 'Network Device Name', 'Rack IP Address' (with four input boxes), 'Rack Subnet Mask' (with four input boxes), and 'Gateway Address' (with four input boxes).
- Front Port External Modem:** A dropdown menu set to 'None' and an 'Initialization String' text field.
- Byte Timeout:** A numeric spinner box set to '20'.
- Rack Mounting Option:** Radio buttons for 'Panel Mounted' (selected), 'Rack Mounted', and 'Bulkhead Mounted'.
- Power Supply Option:** Two dropdown menus for 'Top' and 'Bottom', both set to 'AC High Voltage'.
- Agency Approvals:** A dropdown menu set to 'None' and a checkbox for 'CE Approval'.
- Passwords:** Text fields for 'Connect' and 'Configuration' passwords.

At the bottom, there are buttons for 'OK', 'Security Options...', 'Cancel', 'Print Form', and 'Help'. The Bently Nevada logo is in the bottom right corner.

电源组态

- 电源可以以两种方式组态
 - 左击电源，从下拉列表中选择合适的电源
 - 在 RIM 或 TDI 的组态中选择“电源选项”，并在列表中选择合适的电源

电源的组态



Power Supply Option

Top:

AC Low Voltage ▼

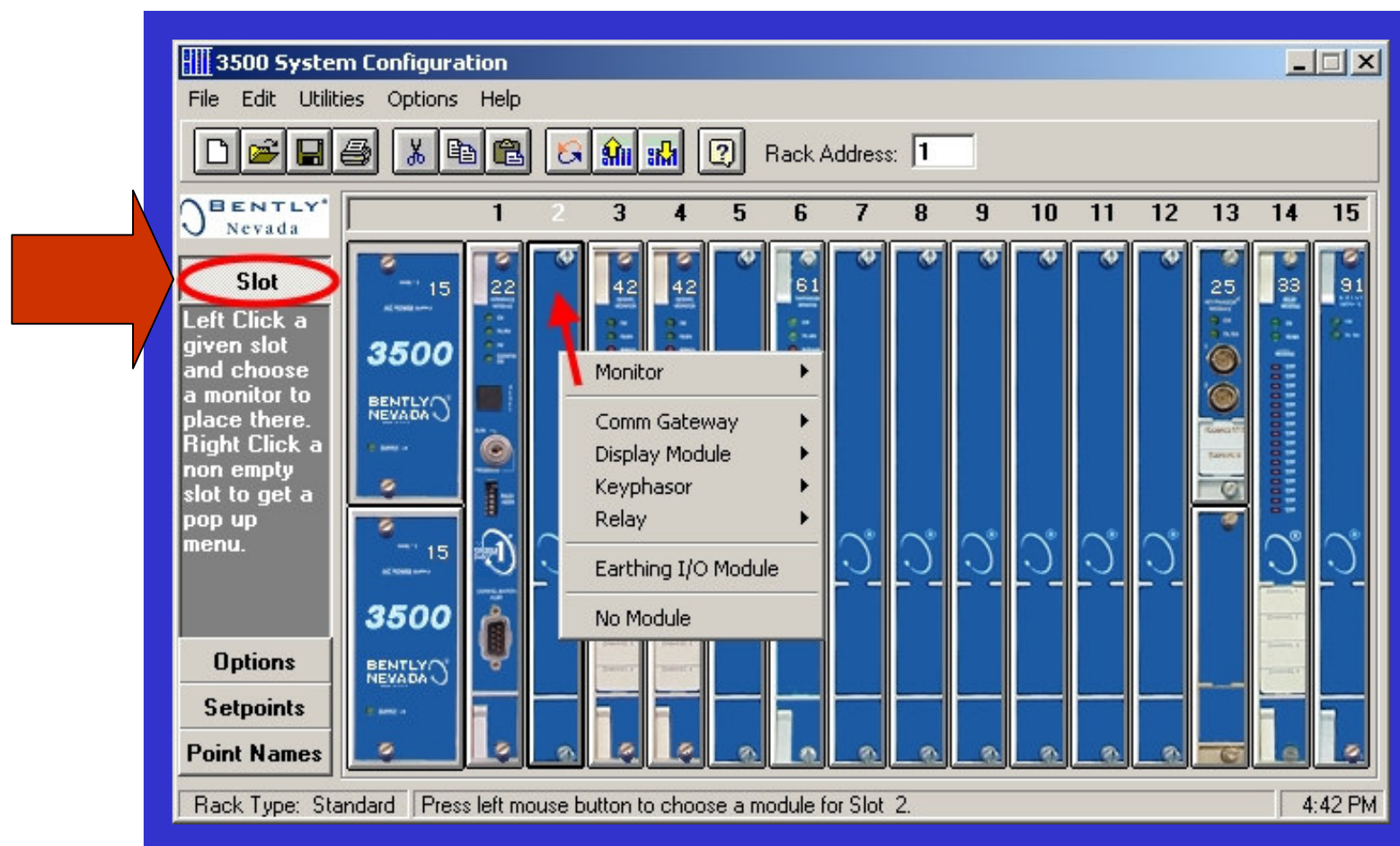
Bottom:

AC Low Voltage ▼

选择监测器模块组态

- 左击 “Slot” 按钮, 然后左击所用的监测器或模块
- 从所提供的列表中选择适当的监测器
- 当 TMR RIM 或 TDI 已被选择, 则相应的标准监测器或三监测器将被选择

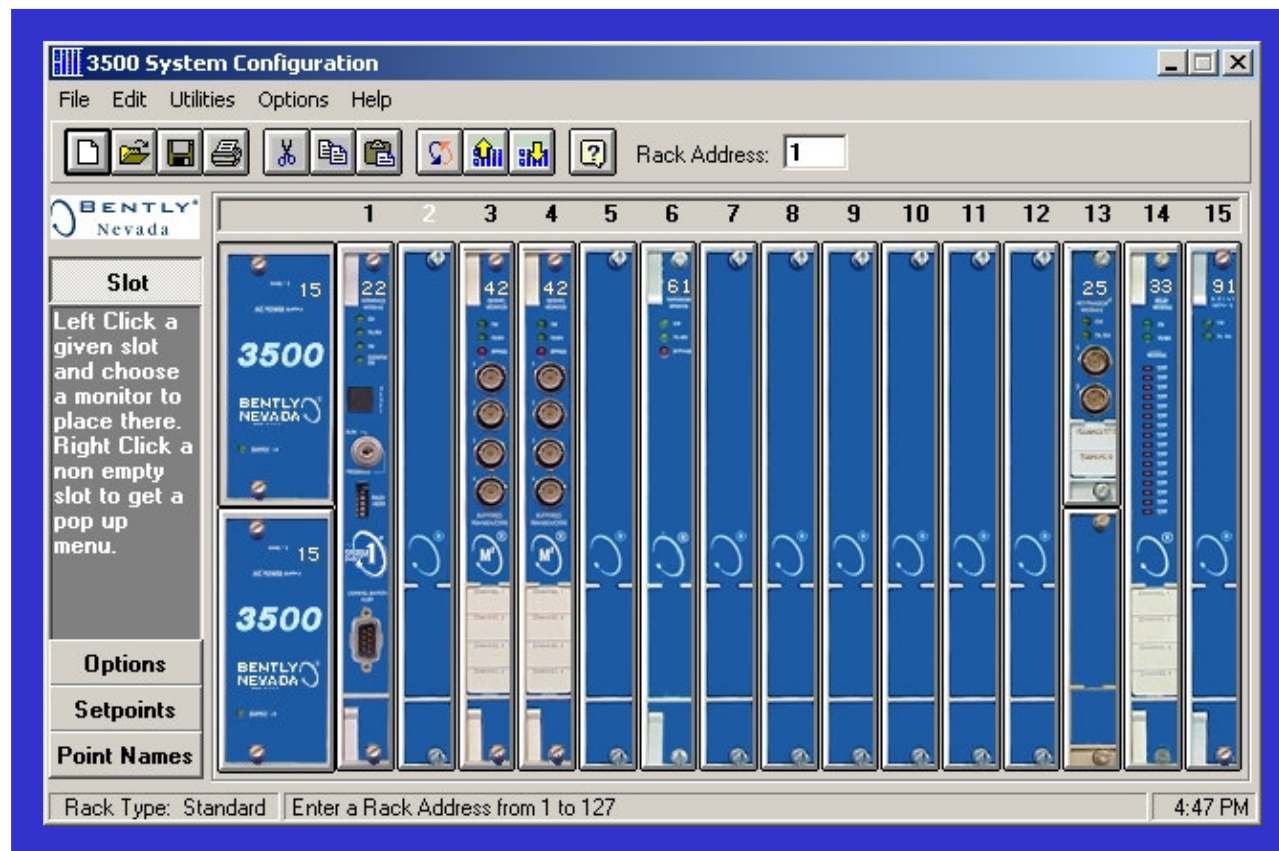
组态选择监测器模块



工具板

- 可以通过监测器组态屏幕的工具板，用鼠标来选择相应的监测器

工具板



监测器组态

- 一旦相应监测器被选择，它将被组态成相应的功能
 - 在大多数情况, 不同的通道对可组成不同的监测功能
- 一旦相应的通道对被选择，所组态的参数应适应所要求的监测功能

监测器组态

Four Channel Proximito/Seismic Monitor

Slot: Rack Type: Configuration ID:

Slot Input/Output Module Type

- ☒ Discrete Internal I/O
- ☐ Discrete External I/O
- ☐ Prox/Velom Internal I/O
- ☐ Prox/Velom External I/O
- ☐ Prox/Accel Int. Barr. I/O
- ☐ Prox/Velom Int. Barr. I/O
- ☐ Velom Int. Barr. I/O
- ☐ TMR I/O (Discrete)
- ☐ TMR I/O (Bussed)

Channel Pair 1 and 2

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Backup

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Channel 1

☒ Active

Channel 2

☒ Active

Channel Pair 3 and 4

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Backup

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Channel 3

☒ Active

Channel 4

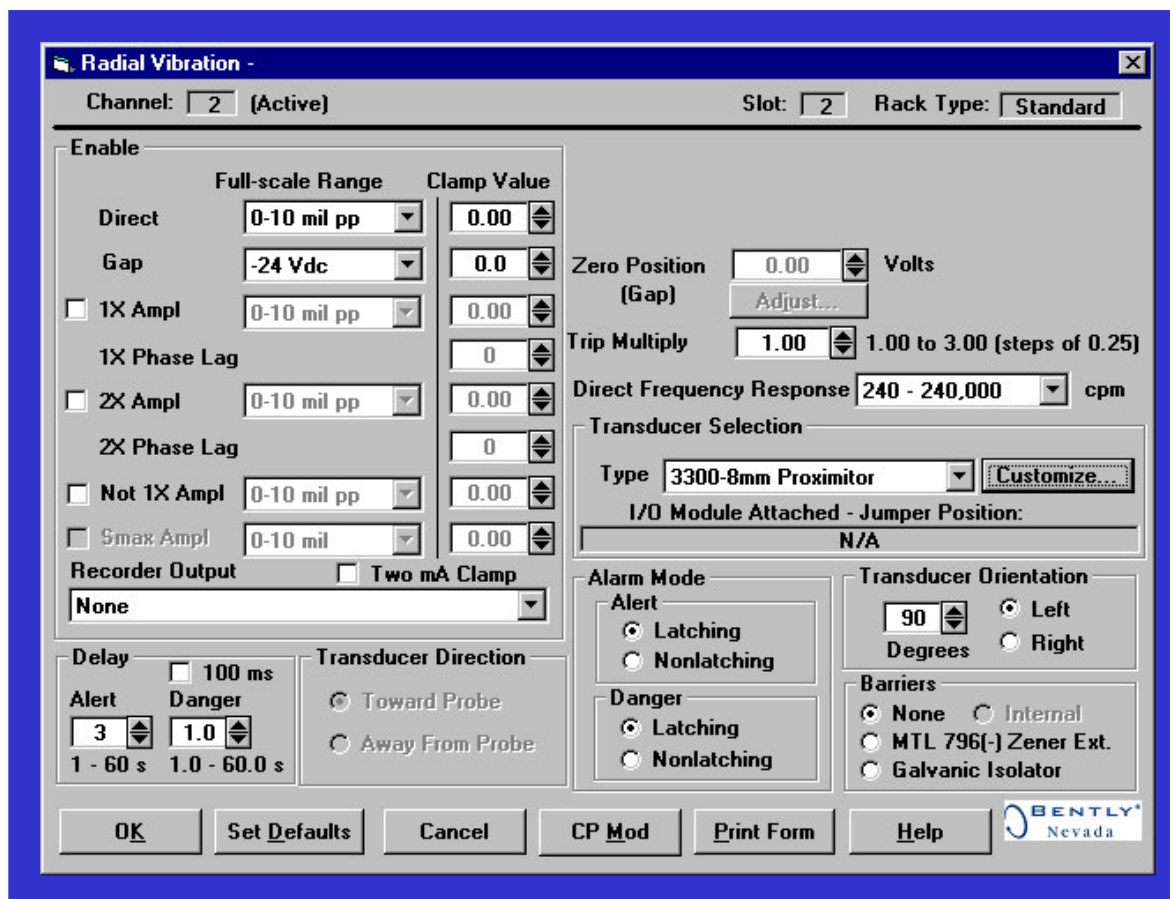
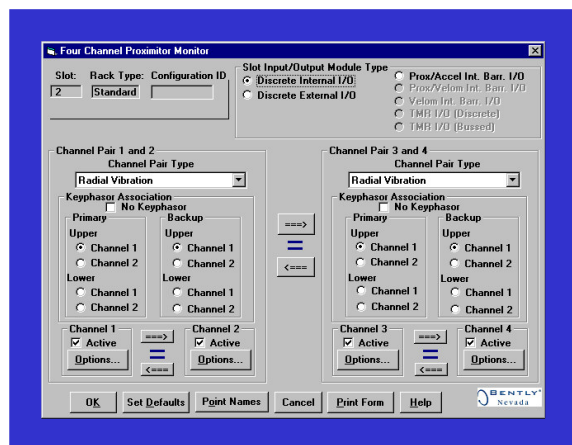
☒ Active

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常规组态参数

- 监测器满量程及设置点
- 记录仪输出组态
- 倍增报警和警告或危险报警的延迟时间
- OK, 危险, 及报警继电器的闭锁
- 传感器的选择, 安装方向及组态
- 监测器是否带有安全栅

常规组态参数



复制通道

- 当一个通道已被组态, 通过选择 “===>” 或 “<===”, 箭头所指方向的通道将被复制
- 当两组通道是等同的, 将会有 “=” 表示

复制通道

Four Channel Proximito Monitor

Slot: Rack Type: Configuration ID:

Slot Input/Output Module Type

- ☒ Discrete Internal I/O
- ☐ Discrete External I/O
- ☐ Prox/Accel Int. Barr. I/O
- ☐ Prox/Velom Int. Barr. I/O
- ☐ Velom Int. Barr. I/O
- ☐ TMR I/O (Discrete)
- ☐ TMR I/O (Bussed)

Channel Pair 1 and 2

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Backup

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Channel 1 ☒ Active

Channel 2 ☒ Active

Channel Pair 3 and 4

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Backup

Upper

- ☒ Channel 1
- ☐ Channel 2

Lower

- ☐ Channel 1
- ☐ Channel 2

Channel 3 ☒ Active

Channel 4 ☒ Active

Buttons:

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复制通道对及监测器模块

- 通道对的复制，可以用左箭头或右箭头来实现，并且用“等号”来表示其组态相同
- 当监测器模块已被组态，它可以用“复制/剪贴”方式对相同功能的监测器进行组态

复制通道对

Four Channel Proximito Monitor

Slot: Rack Type: Configuration ID:

Slot Input/Output Module Type

☒ Discrete Internal I/O

☐ Discrete External I/O

☐ Prox/Accel Int. Barr. I/O

☐ Prox/Velom Int. Barr. I/O

☐ Velom Int. Barr. I/O

☐ TMR I/O (Discrete)

☐ TMR I/O (Bussed)

Channel Pair 1 and 2

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

☒ Channel 1

☐ Channel 2

Lower

☐ Channel 1

☐ Channel 2

Backup

Upper

☒ Channel 1

☐ Channel 2

Lower

☐ Channel 1

☐ Channel 2

Channel 1

☒ Active

Channel 2

☒ Active

Channel Pair 3 and 4

Channel Pair Type:

Keyphasor Association

☐ No Keyphasor

Primary

Upper

☒ Channel 1

☐ Channel 2

Lower

☐ Channel 1

☐ Channel 2

Backup

Upper

☒ Channel 1

☐ Channel 2

Lower

☐ Channel 1

☐ Channel 2

Channel 3

☒ Active

Channel 4

☒ Active

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调整设置点

- 警告报警，即水平1报警，可以调整每一变量的设置点，包括幅值及相位
- 危险报警，即水平2报警，可以调整所有变量中被选择的任何两个变量
- 可以通过调整改变标尺或输入相应的数值来改变设置点

调整设置点

Setpoint Configuration: Radial Vibration -

Alert / Alarm 1

Direct	Gap	1X Ampl	2X Ampl	Not 1X	Smax	1X Phase
mil pp	Vdc	mil pp	mil pp	mil pp	mil	deg
8.0	-12.0	6.5	6.5	3.0	3.0	
0	0	0	0	0	0	0 108
☒	☒	☐	☐	☐	☐	☐ Enabled
Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	

Slot 3

Monitor Channel: **Channel 1**

Danger / Alarm 2

Direct	Gap
mil pp	Vdc
12.0	-18.0
0	0
☒	☐
Enabled	Enabled

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继电器组态

- 可以用警告或危险报警所需要的逻辑关系进行组态继电器
- 任何继电器可以响应框架中的任何监测器通道

/32继电器组态

Relay Association -

Available Monitors: Rack Type: Standard Config ID: Relay Slot: 13

2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Available Monitor Channels/Alarms:

- S02C##A2 (Slot 2 Any Active Danger)
- S02C01A1 (Slot 2 Channel 1 Alert)
- S02C01A2 (Slot 2 Channel 1 Danger)
- S02C02A1 (Slot 2 Channel 2 Alert)
- S02C02A2 (Slot 2 Channel 2 Danger)
- S02C03A1 (Slot 2 Channel 3 Alert)
- S02C03A2 (Slot 2 Channel 3 Danger)
- S02C04A1 (Slot 2 Channel 4 Alert)
- S02C04A2 (Slot 2 Channel 4 Danger)

And (*) Or (+) Enter

{ }

CLR

Copy...

Simplex - 6 of 60 logic operations per Module

90%

Standard Relay Association

Channel 1

☒ Active

☐ Latching Relays

And Voting Setup...

Alarm Drive Logic:

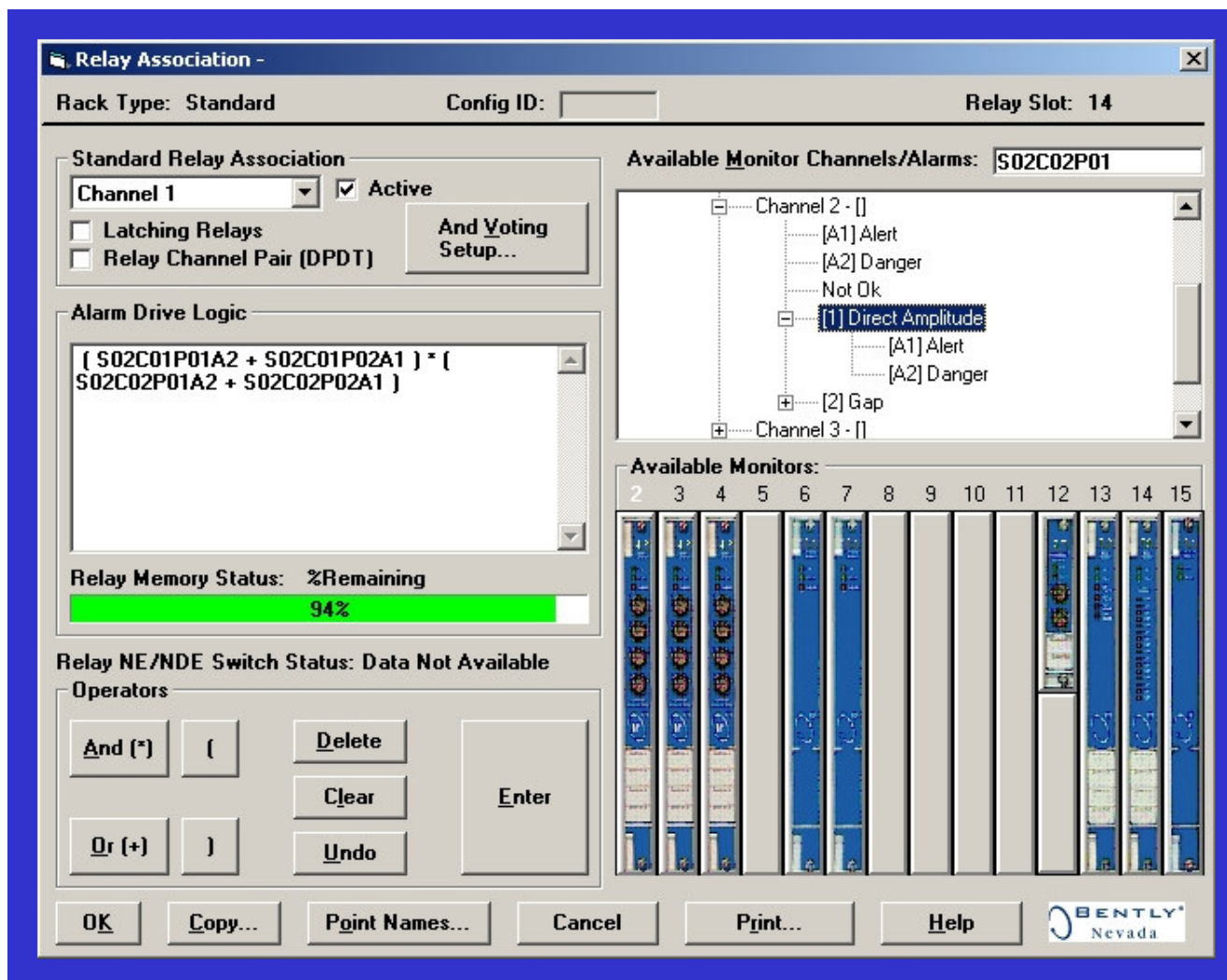
[S02C01A2 + S02C02A2] * [S02C03A2 + S02C04A2]

Relay NE/NDE Switch Status:
Data Not Available

OK Point Names... Cancel Print Form Help

BENTLY Nevada

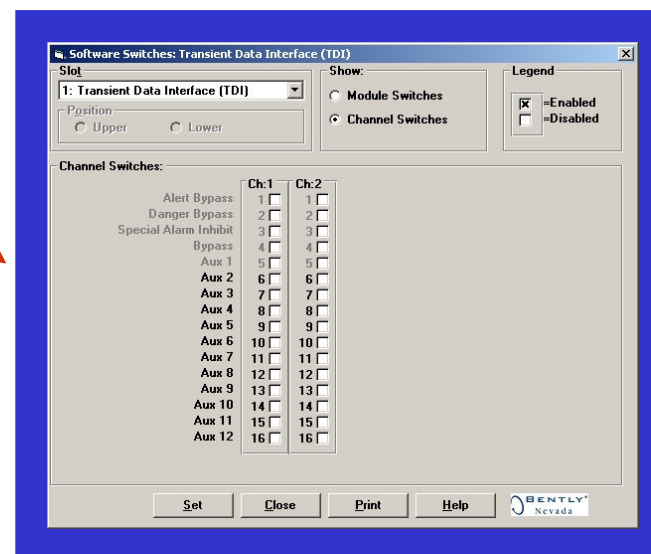
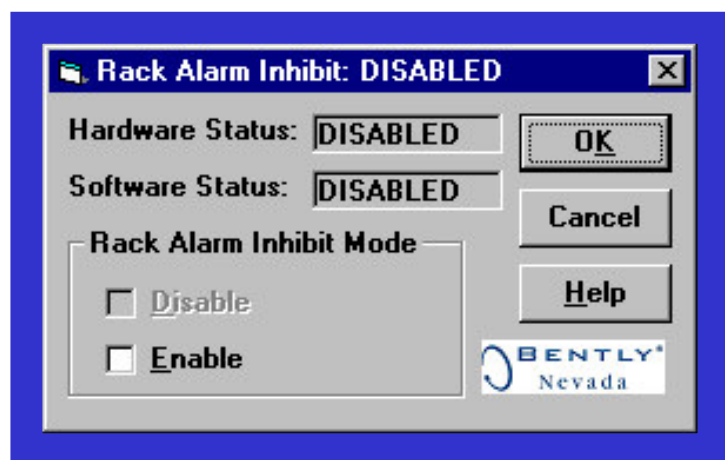
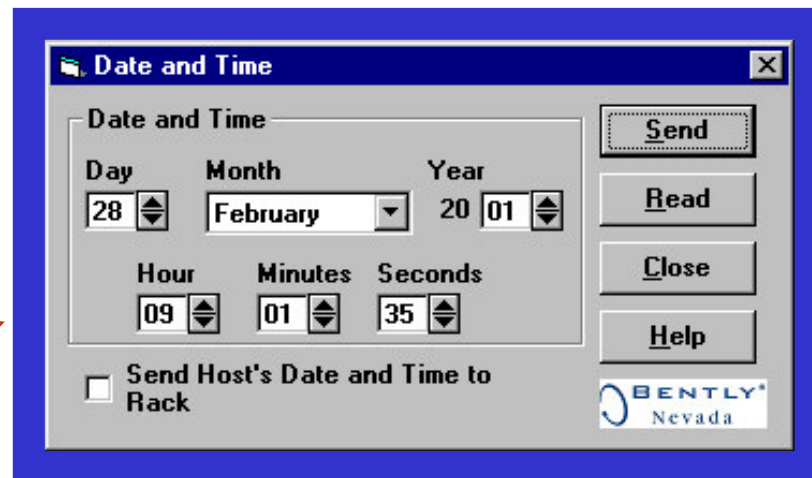
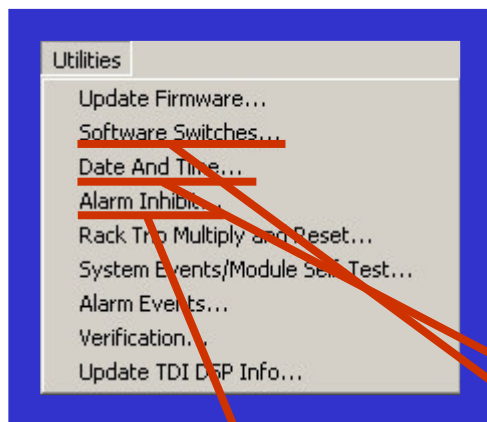
/33 继电器组态



其它开关状态

- 软件开关
- 监测器的时钟
- 报警抑制
 - 可选择通道，监测器，监测框架
- 倍增

其它开关状态



实用工具板

- 可以通过用鼠标拖曳，并利用实用工具板来改变软件开关状态
- 当组态软件与监测系统相连，用实用工具板来选择相应的监测器，并完成软件开关的设置

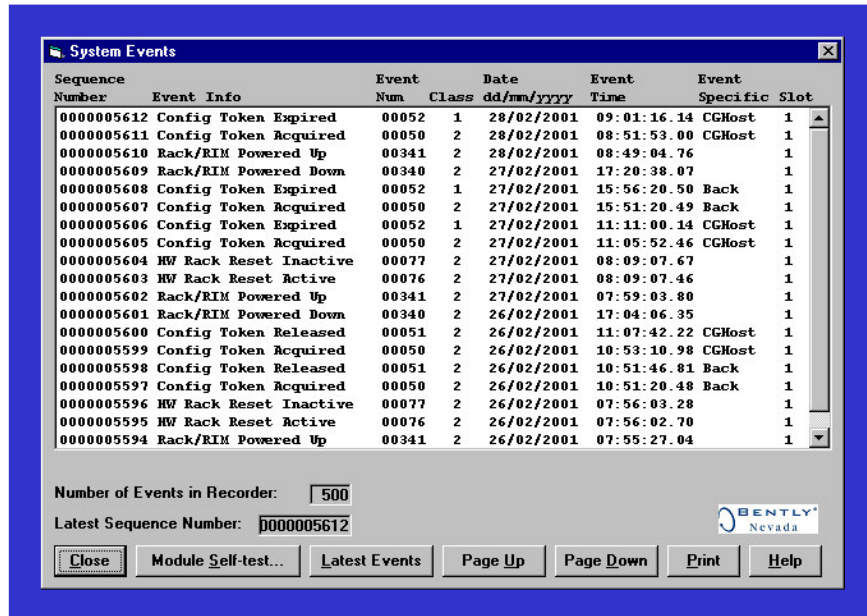
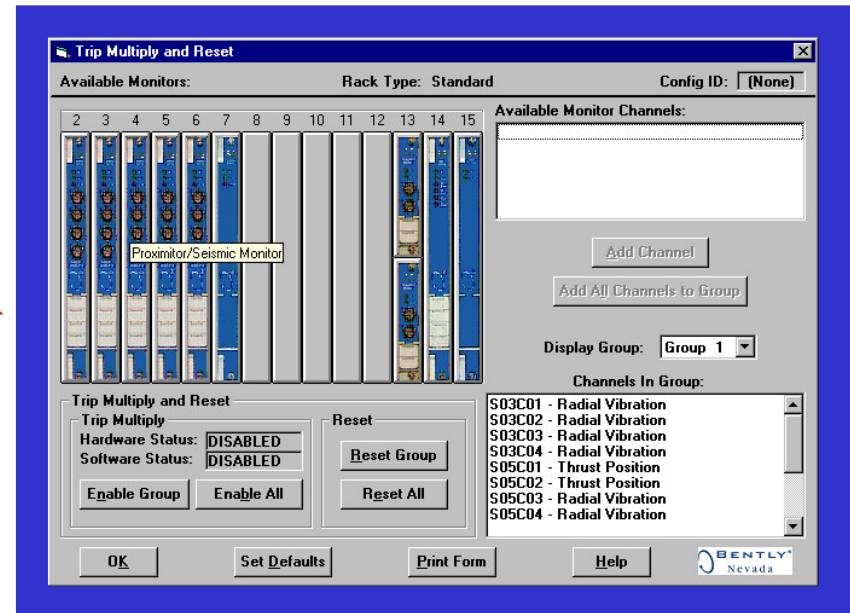
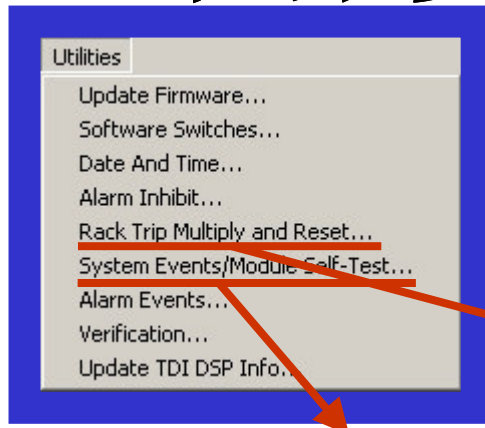
实用工具板



框架复位及监测器自检

- 用组态软件来复位框架
- 监测器可被分组复位，而保证其它监测器不改变状态
- 监测器也可以独立的触发自检模式

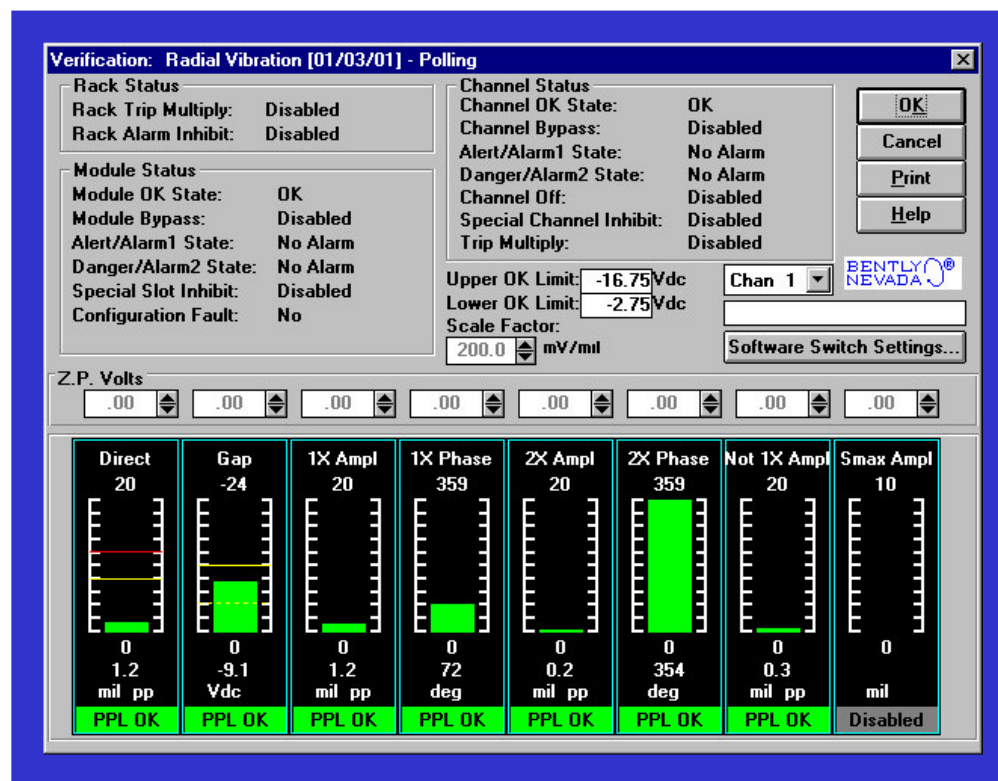
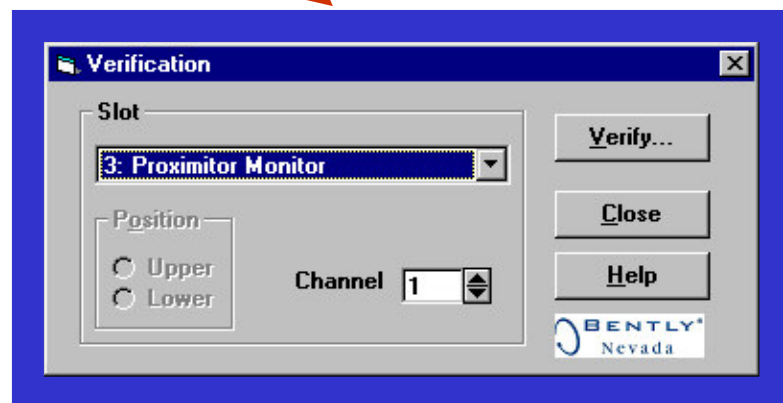
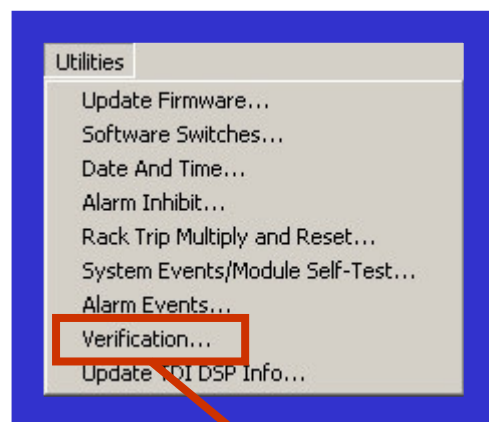
框架复位及监测器自检



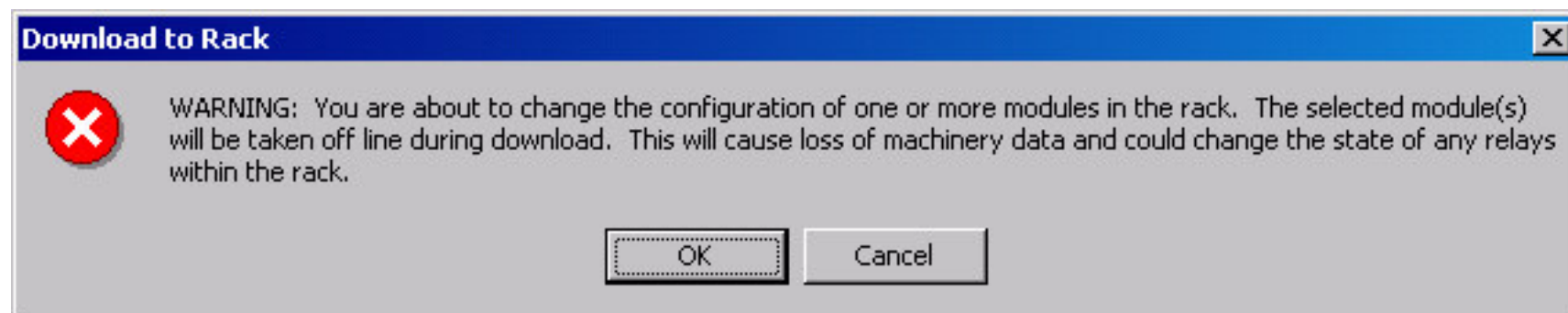
监测器及通道的确认

- 当组态软件与监测器相连，可以分别监测独立的通道状态
- 所有可接收变量都可以被一一显示
- 对某些监测器所具有的零点，上、下线值，都可以显示出来

监测器及通道的确认



组态事项



警告：

在进行下一部之前

请阅读警告

复习

- 软件文件选项
- 框架连接选择
- 上装或下装数据
- 选择 RIM 或 TDI 及电源
- 选择监测器模块

复习

- 组态监测器
- 复制通道，通道对及监测器
- 组态监测器设置点
- 组态监测器及通道开关
- 实用确认工具的使用
- 工具及实用板的使用

3500 框架组态

