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Nways RouteTracker Manager Release Notes Version 2.1 for Microsoft Windows 95, Windows NT, Solaris, HP-UX, and AIX

Important: Read This Document

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Revision History

Release	Revision	Date	Description of Changes
2.1	A	12/09/97	Initial Release for Microsoft Window 95 and Windows NT
2.1	A	1/28/97	Initial Release for Solaris, and HP-UX Version 2.1
2.1	B	2/12/97	To include AIX platform

This publication is divided into two section:

- See,“RouteTracker Release Notes for Solaris, HP-UX, and AIX” on page 4.
- See,“RouteTracker Release Notes for Microsoft Windows 95 and Windows NT 4.0” on page 21.

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1. RouteTracker Release Notes for Solaris, HP-UX, and AIX

1.1 Introduction

These Release Notes cover the basic feature set supported for IBM Nways RouteTracker Manager (RouteTracker) Version 2.1. RouteTracker runs on the following platforms:

- Solaris 2.4 or later workstation
- HP-UX 9.x or greater workstation
- RS6000 running workstation AIX 4.1.3. or later

These Release Notes include known limitations, bugs and known work-arounds for RouteTracker. Please read the applicable sections in their entirety as they contain important operational aspects that may impact your network.

1.2 Feature Set Supported

RouteTracker Version 2.1 supports the feature set released with RouteSwitch Version 2.1.3.D software. The following new features and enhancements are included with the RouteTracker Version 2.1 release:

- You can launch RouteSwitch Network Manager Software Version 2.1 from RouteTracker Version 2.1.
- RouteTracker Manager Version 2.1 supports multi-cast VLANs and allows you to set multiple protocol, network address, and user rules.
- RouteTracker Version 2.1 recognizes ATM, FDDI/CDDI, and Frame Relay modules and service ports. You can include these ports in VLAN port rules. To manage these ports (for example, add ports to a Group or remove ports from a Group) you must use RouteSwitch Network Manager Software or the RouteSwitch User Interface (UI). (PR 5591)

1.3 Technical Support Contacts

IBM Technical Support can be reached at **1-800-IBM-SERVE (426-7378).**

1.4 General Instructions and Notes

1. You must run RouteTracker Version 2.1 with RouteSwitch version 2.1.3.D or its subsequent maintenance versions for full compatibility.
2. There is no RouteDiscovery for this release. (PR 3071).
3. If you have selected the Enterprise Properties “Always Update from database” option, any activates you perform with RouteTracker are lost if you perform “Update Tree item” before the next update from the switch.. (PR 5605)
4. If a Group or VLAN has different names on different switches, the Network Tree displays the name from the last Switch polled. RouteTracker now displays Group numbers to further identify Groups. (PR 1670)
5. After an Update, all ports appear with a "+", designating lower entries (forwarding table addresses). It is necessary to Query the Forwarding Table on each switch before any addresses appear under the ports. Once the switch has been Queried, all ports will still show a "+" until after the "+" has been clicked. This is also true for all Network Tree items.
6. If using many MAC Address Rules on VLANs, the application response will get very sluggish during VLAN Rule Properties dialogs. (PR 3641)
7. If it is desired to modify a MAC Rule, it is highly recommended to Delete the VLAN first, and then recreate it. This is because the switch processes a duplication check on every Address that is sent on a Modify Rule request. This can take hours with many (hundreds of) MACs. (PR 3631)

8. It is currently necessary to manually enter each MAC Address on each switch for MAC Rules. (PR 3365, 3633)

1.5 Known Problems

The problems listed here cover all problems known at the time of the release of RouteTracker Version 2.1 for Solaris, HP-UX and AIX

1.5.1 General Known Problems

Problem Report 2187

The on-line Help file is not implemented.

Work-around: See the User Manual.

Problem Report 2324

RouteTracker, HP OpenView, and NetView 6000 on AIX launch separate instances of the RouteSwitch Network Manager Software application. There may be anomalies if two RouteSwitch Network Manager Software applications are running at the same time. It is recommended to only have one instance running at a time.

Work-around: Close one of the application instances.

Problem Report 2859

Add Multicast VLAN or AT VLAN range of MAC addresses does not check if the From address is greater than the To address. There is no warning message and the To address is added to the Known MAC address list. Add Multicast VLAN range of multicast addresses adds both the From and To addresses to the Known Multicast addresses list. No other addresses are added and there is no warning message.

Work-around: Ensure that To address is greater than From address.

Problem Report 2952

MAC Rule Addresses that get sent from RouteTracker are displayed in random order on the switch.

Work-around: None.

Problem Report 2964

There is a delayed reaction on the RouteSwitch when deleting several groups at the same time. It may take a couple minutes before the Groups no longer appear on the switch.

Work-around: Wait a couple minutes after Deleting several Groups (from Activate Enterprise Network) before doing an Update.

Problem Report 2992

The Update Group function is disabled if the Group icon is gray.

Work-around: Must Update at the Enterprise level to get the current information.

Problem Report 3020

If a Group is added to a switch from another source, an Update Group function will not show that switch on the Group.

Work-around: Must Update Enterprise to get current data on all switches for all Groups.

Problem Report 3071

RouteDiscovery not available in this release.

Work-around: None

Problem Report 3103

It is not possible to set the IPX Source Routing type on a Create IPX Route. The switch sets ARE as the default value.

Work-around: Create the IPX Route with the ARE default, then Modify the Route to change the SR type.

Problem Report 3184

"Change Switch List" does not always behave as expected when adding a new switch with ports and removing an old switch at the same time.

Work-around: In this case, it is better to remove the old switch and add the new switch without ports and activate Group. Then modify Group to add ports.

Problem Report 3421

Ports in disabled admin status VLANs appear as Virtual Port #00 in the Tree and in Modify VLAN Properties - Port Rules.

Work-around: None.

Problem Report 3683

After removing Port Rules from a VLAN, the Group won't allow the ports to be removed until after the VLAN is Activated.

Work-around: Remove the port rules from the VLAN. Activate the VLAN. Then remove the ports from the Group.

Problem Report 3930

Modifications to Groups/VLANs, such as removing ports, show up automatically on List side but not always on Network Tree side of display.

Work-around: Refresh tree item at Enterprise, Group, VLAN, or switch level to update Network Tree.

Problem Report 4125

No error message when modifying AT VLAN to add an IP Network Address rule to VLAN that already has an EtherType Protocol rule with a value of 800 (800 EtherType = IP). OK when creating a new AT VLAN.

Work-around: Check VLAN Protocol rules for EtherType value of 800 and remove, if necessary, before adding an IP Network Address rule.

Problem Report 4686

Making more than one modification to multicast addresses before activating in MC VLAN that was created with only one MC address and MAC address rules, causes activate to fail. Problem does not occur if MC VLAN was created with more than one multicast address.

Work-around: Activate MC VLAN after each MC address modification.

Problem Report 4856

RoutePort ports do not always display on List side.

Work-around: None.

Problem Report 5205

When User adds a MC VLAN the default VLAN ID defaults to the next available RouteTracker VLAN ID number, instead of the next available MC VLAN ID number. This may occur even if there are already MC VLANs in the group.

Work-around: User can override this by typing in the appropriate next available MC VLAN ID.

Problem Report 5233

RoutePort community string fields are ignored when changing segment mapping. When accessing RoutePort Properties and attempting to change RoutePort segment assignments, User indicates OK, a “Changing RoutePort segments” message box appears, however, command is not invoked. User must cancel on message box to clear. Application does not hang, but changes are not effective.

Work-around: None.

Problem Report 5354

When User is creating AT VLAN with one switch in Group that has multiple switches, then selects Modify the VLAN and Property Routing, the “Which Switch” list box field shows a switch that is not in the VLAN; User may have to select the list box field to see the extra switch.

Work-around: None.

Problem Report 5487

If User selects Find MAC address, then chooses the “Use address range” radio button, then enters MAC address range and chooses Find, message appears “nothing found” regardless of range values. No MAC addresses within the User specified range are found.

Work-around: None.

Problem Report 5489

When User selects Find MAC address, then enters value to search for, and chooses Find, the results box window only lists MAC addresses. The switch IP for the address is not shown. The switch IP is shown when the MAC address entry is chosen.

Work-around: None.

Problem Report 5490

When User selects Find Port command and enters values to search for, then chooses Find, the Results box lists Slot/Port entries, but does not show port MAC address next to each entry.

Work-around: None.

Problem Report 5494

When creating a VLAN, if User enters an invalid VLAN number that is greater than 32 an error message appears, if User selects Continue this command fails to activate on the switch.

Work-around: Select Back and return to the screen and enter a VLAN number that is not greater than 32.

Problem Report 5598

RouteTracker does not launch RouteSwitch Network Manager if the switch contains spaces in its name. This will not cause RouteTracker to crash or hang and allows User to continue working.

Work-around: Do not insert spaces when naming switches.

Problem Report 5364

When User is in the Property Sheet for creating and modifying VLAN rules and selects Network Address Rules. If either the *IP or *IPX is inadvertently selected User must enter an address.

Work-around: Enter an address in the data field, but do not press the “Add” button.

Problem Report 5456

When creating a VLAN and adding MAC rules, certain MACs can be entered into the include box multiple times.

Work-around: User can manually remove duplicate MACs from the List Box.

Problem Report 5472

User Interface allows a User Rule Offset on an ATVL to be =64, and the prompt indicates it must be less than 64. RouteSwitch Network RouteTracker does not allow 64.

Work-around: None.

Problem Report 5533

When creating a group with IPX routing, a 0 may be entered as an IPX number, even though the switch does not allow 0 as an IPX network number.

Work-around: Do not use 0 as an IPX network number.

Problem Report 5427

When User attempts to create a group (in a switch with a FDDI/CDDI card) and move the FDDI and CDDI ports to a new group and select Switch icon under the group, the CDDI port on the list side shows as a Physical Type = Other (instead of FDDI), and the FDDI port shows as FDDI. Activate still shows as = Other. Only when Update is used does it show as FDDI (which is being returned from the switch).

Work-around: None.

Problem Report 5430

The Frame Relay Trunking Service Type description contains too many characters causing the "Instance" field to be cut off of the display.

Work-around: None.

Problem Report 5461

No status messages are displayed on the results of a Delete Group request.

Work-around: None.

Problem Report 5837

The Modify Group Switch list may remove ports from VLAN rules and there is no warning provided.

Work-around: None.

Problem Report 5583

Using 60 ports or greater may cause buttons to disappear on activate VLAN dialog for ports.

Work-around: Press "Enter/Return" key which defaults to accepting the changes without checking the scope of port changes.

Problem Report 5465

Subnet mask validity allows lower class subnet mask.

Work-around: None.

Problem Report 5552

Modify VLAN Switch list error message refers to Groups instead of VLANs.

Work-around: None.

1.5.2 Documentation Known Problems

Problem Report 5591

RouteTracker displays ATM and Frame Relay bridge port in default Group 1 branch of RouteTracker network tree. These ports do not appear in Group/VLAN Wizard or properties dialogs as they cannot be moved in an out of "Groups". User must use Switch User Interface to create or delete service ports.

Work-around: Configure services using RouteSwitch Network Manager or User Interface.

Problem Report 5375

Cancel Group/VLAN Update Tree Item breaks update command.

Work-around: Do not press “Cancel” button during update group or VLAN.

Problem Report 5603

When deleting a switch, the switch subdirectory in the RouteTracker database is not removed. Switch information remains in these directories.

Work-around: Delete all files except for OID and Database.def from the Database directory using the “rm” command.

Problem Report 5604

RouteTracker does not allow User to perform a save of RouteTracker database information.

Work-around: Update the Enterprise on a routine basis, particularly after an application or system crash.

Problem Report 5605

If User selects the “Always Update” from Database option in the “Enterprise Properties” menu they may lose any activates performed, if they perform an update from database before the next update from switch.

Work-around: Perform updates from switch at the “Group/VLAN” level after an activate.

1.5.3 Solaris Known Problems

Problem Report 5084

The following /usr/dt/lib and /usr/ucblib must be in the LD_LIBRARY__PATH for WindU to display icons properly.

Work-around: None.

Problem Report 5235

When creating a new group if User enters an invalid Group ID, such as an alpha character and chooses Next, an error message appears. User chooses OK to clear. The error message repeats requiring a second OK command. Group Setup Wizard goes to the next screen, while invalid ID still is entered. This also occurs if Group ID is left blank.

Work-around: None.

Problem Report 5296

In Create Group when user selects IP routing and enters address with invalid host portion (i.e., 172.30.0.0) the following error message appears “the host portion of the IP address is Invalid” and does not clear after first OK is entered.

Work-around: OK must be entered two times to clear error message.

Problem Report 5528

In Group Properties when User selects Switch tab, and then selects Change Switch List and removes all switches from the included list an error message appears, but all switches are allowed to be removed.

Work-around: Select change switch button again and Group Switch window will reappear. Always include at least one switch in a group.

Problem Report 5555

In VLAN Properties when User selects Modify VLAN Switch list and removes all switches from the included list an error msg appears, but all switches are allowed to be removed.

Work-around: Select change switch button again and Group Switch window will reappear. Always include at least one switch in a VLAN.

1.6 AIX Known Problems

Problem Report 5525

RoutePort Properties lists ports in random order.

Work-around: None.

Problem Report 5531

Scroll bar may not show last port in list.

Work-around: None.

Problem Report 5524

After using Activate command to Delete Groups tree must be Refreshed.

Work-around: None.

Problem Report 5538

Using the mouse to click and drag to select all ports may not work.

Work-around: Use ctrl-click/shift-click instead.

Problem Report 5540

When changes are not staged, adding groups in quick succession may require a Refresh.

Work-around: None.

Problem Report 5537

Using the right control click with the mouse may not work to set non-contiguous port selection.

Work-around: Use left-control-click.

Problem Report 5761

The Cancel RoutePort Connection Find command is not operational.

Work-around: None.

1.7 Solaris Instructions

1.7.1 Solaris System Requirements

Following are the requirements for running RouteTracker on the Solaris platform:

- At a minimum, you must install RouteTracker on a SPARCstation 4 or SPARCclassic; A SPARCstation 10 is recommended.
- The SPARCstation must be running Solaris 2.4 or 2.5.
- At a minimum, the SPARCstation must have 64 MB of memory.
- The SPARCstation must have 30 Mbytes of hard disk space available.
- It is recommended that the SPARCstation have 64 MB of swap space.
- At a minimum, the SPARCstation must have a 19-inch color monitor.
- The SPARCstation must be running X11R5 or Motif 1.2.
- Optionally, the SPARCstation may run:
  - HP OpenView Network Node Manager Version 3.X for Sun SPARCstation, or
  - SunNet Manager Version 2.2.2
- The SPARCstation must be running the C Shell.
- A 1/4" QIC tape drive is required for software installation.

1.7.2 RouteTracker Installation on Solaris

To install the software, complete the following steps:

1. cd to the location where you want the installation program to create the RouteTracker directory. If the location does not currently exist, create it. For example:

   ```
   % mkdir /usr/home

   % cd /usr/home
   ```

   A directory named RouteTracker will be created in this location. For example:

   ```
   /usr/home/routetracker
   ```

2. Mount the distribution tape and extract the tar file. For example:

   ```
   % tar xvf /dev/rst0
   ```

   The installation begins. The RouteTracker files are listed on the screen as they are extracted from the tape. When the extraction is complete, perform the next step.

3. In your .cshrc file, create environment variables named ROUTETRACKER_HOME and WUHOME and set them to the location in which you installed RouteTracker. For example:

   ```
   setenv ROUTETRACKER_HOME /usr/home/routetracker

   setenv WUHOME /usr/home/routetracker
   ```

4. If you are using HP OpenView: Create an environment variable in your .cshrc file called OV_HOME to indicate the home directory of HP OpenView. For example:

setenv OV_HOME /opt/OV

If you are using SunNet Manager: Create an environment variable in your .cshrc file called SNMHOME to indicate the home directory of SunNet Manager. For example:

setenv SNMHOME /opt/SUNWconn/snm

5. In your .cshrc file, add $ROUTETRACKER_HOME to your library path. For example:

   setenv LD_LIBRARY_PATH /usr/lib/X11:$MOTIFHOME/lib:/usr/lib:$ROUTETRACKER_HOME

6. In your .cshrc file, add $ROUTETRACKER_HOME to your file search path. For example:

   set path=(/usr/bin\

   /bin \

   /usr/etc \

   $ROUTETRACKER_HOME \

   .)

7. Source your .cshrc file

   % source .cshrc

8. Inform the shell of new binary locations:

   % rehash

9. Locate file RouteTracker.ini in the RouteTracker directory created during installation. For example:

   /usr/home/routerracker/RouteTracker.ini

   One line in file RouteTracker.ini must be edited to reflect the location of the RouteTracker database directory on your system. The line is DatabaseDir="database_location"

   The RouteTracker database directory is located in the RouteTracker directory created during installation and is named database. For example: /usr/home/routetracker/database

   Edit file RouteTracker.ini so that the line DatabaseDir="database_location" reflects the location of the RouteTracker database directory on your system. In this example the line in file RouteTracker.ini should be edited to appear as follows:

   DatabaseDir="/usr/home/routetracker/database"

10. If you are using HP OpenView, execute the script to enter registration, field symbols and bitmaps:

```
% $ROUTETRACKER_HOME /hpsetup /opt/OV
```

The default HPOV home directory is /opt/OV for Solaris. If the actual HP OpenView home directory has been redefined, enter the redefined path rather than the default path in the command line.

11. If you are using SunNet Manager, execute the script to place the schema and icon files in the SunNet Manager directories (write permission into these directories is required):

```
% $ROUTETRACKER_HOME /snmsetup
```

12. To load new schema and icons in SunNet Manager, do one of the following:

    – Start SunNet Manager with the -i option (% snm -i), or

    – Delete the existing database files, or

    – from SunNet Manager, select File/Load/Management Database. Go to the location of the $SNMHOME/struct directory (alternatively, the file is also located in $ROUTETRACKER_HOME), select the file routetracker.schema and Load.

13. For HP OpenView RouteDiscovery to recognize the switch device types, enter the following commands from the HPOV configuration directory:

```
% cd $OV_HOME/conf/C  (HPOV configuration directory)

% cp $ROUTETRACKER_HOME /routetracker.oid .

% cat oid_to_sym routetracker.oid > temp

% cp temp oid_to_sym

% rm temp
```

14. For the SunNet Manager MIB Browser to work with RouteTracker MIBs, it is necessary to load a custom-formatted MIB file. Contact Technical Support if you wish to do this.

15. To integrate RouteTracker traps into SunNet Manager, go to the SunNet Manager directory that contains its traps file:

```
% cd /var/opt/SUNWconn/snm

% cp $ROUTETRACKER_HOME/netmgr.trap .

% cat snmp.traps netmgr.trap > temp

% cp temp snmp.traps

% rm temp
```

16. To run SunNet Manager, enter:

    % SNMHOME/bin/snm

17. To run HP OpenView:

    % $OV_HOME/bin/ovw

18. To run RouteTracker stand-alone:

    % routetracker

Please Note:

If you move or upgrade the RouteTracker program to a different directory, it is necessary to delete two links in the home directory: .WindU and . RouteTracker.ini.

For installation on Solaris, User may not have the updated libC .so.5 library file in their library path.

This is libC.so.5, and it is important that the C is uppercase. This library is sent with RouteTracker. It does not have to do with the version of Solaris, but the version of the C++ compiler. This library is sent so that the User does not have to have the C++ compiler. When User does not have the compiler, it automatically finds this library in the RouteTracker directory. If User does have a C++ compiler on their system, this is when the problem can occur. If the compiler installed has an older version of this library and /usr/lib is LD_LIBRARY_PATH before the RouteTracker directory, RouteTracker will find the older version of the library first and the error will occur. The User can change the LD_LIBRARY_PATH so that the RouteTracker directory is before /usr/lib and it will pick up the current version.

1.8 HP-UX Instructions

1.8.1 HP-UX System Requirements

Following are the requirements for running RouteTracker on an HP-UX platform:

- At a minimum, you must install RouteTracker on an HP Workstation 715/14 or 7 Series.
- The workstation must be running HP-UX 9.X or later.
- At a minimum, the workstation must have 64 MB of memory.
- The workstation must have 60 MB of hard disk space available.
- It is recommended that the workstation have 64 MB of swap space available.
- At a minimum, the workstation must have a 19-inch color monitor.
- The workstation must be running X11R5 or Motif 1.2.
- Optionally, the workstation may run HP OpenView Network Node manager Version 3.3.1 or 4.x and later for HP Workstations.
- The workstation must be running the C Shell.
- A 4 mm tape drive (DAT) is required for installation.

1.8.2 RouteTracker Installation on HP-UX

To install the software, complete the following steps:

1. cd to the location where you want the installation program to create the RouteTracker directory. If the location does not currently exist, create it. For example:

   ```
   % mkdir /usr/home

   % cd /usr/home
   ```

   A directory named RouteTracker will be created in this location.

2. Mount the distribution tape and extract the tar file. For example:

   ```
   % tar xvf /dev/rst0
   ```

   The installation begins. The RouteTracker files are listed on the screen as they are extracted from the tape. When the extraction is complete, perform the next step.

3. In your .cshrc file, create two environment variables called ROUTETRACKER_HOME and WUHOME and set them to the location in which you installed RouteTracker. For example:

   ```
   setenv ROUTETRACKER_HOME /usr/home/routetracker

   setenv WUHOME /usr/home/routetracker
   ```

4. If you are using HP OpenView: Create an environment variable in your .cshrc file called OV_HOME to indicate the home directory of HP OpenView. For example:

   ```
   setenv OV_HOME /usr/OV
   ```

5. In your .cshrc file, add $ROUTETRACKER_HOME to your library path. For example:

   setenv SHLIB_PATH /usr/lib/X11:$ROUTETRACKER_HOME

6. In your .cshrc file, add $ROUTETRACKER_HOME to your file search path. For example:

   set path=(/usr/bin\

   /bin \

   /usr/etc \

   $ROUTETRACKER_HOME \

   .)

7. Source your .cshrc file when all edits have been completed:

   % source .cshrc

8. Locate file RouteTracker.ini in the RouteTracker directory created during installation. For example:

   /usr/home/routetracker/RouteTracker.ini

   One line in file RouteTracker.ini must be edited to reflect the location of the RouteTracker database directory on your system. The line is DatabaseDir="database_location"

   The RouteTracker database directory is located in the RouteTracker directory created during installation and is named database. For example: /usr/home/routetracker/database

   Edit file RouteTracker.ini so that the line DatabaseDir="database_location" reflects the location of the RouteTracker database directory on your system. In this example the line in file RouteTracker.ini should be edited to appear as follows:

   DatabaseDir="/usr/home/routetracker/database"

9. If you are using HP OpenView, execute the script to enter registration, field symbols and bitmaps:

   % $ROUTETRACKER_HOME /hpsetup

10. To run RouteTracker stand-alone:

    % routetracker

11. To run HP OpenView:

    % $OV_HOME/bin/ovw

1.9 AIX Instructions

1.9.1 AIX System Requirements

Following are the requirements for running RouteTracker on an AIX platform:

- At a minimum, you must install RouteTracker on an RS6000 workstation.
- The workstation must be running AIX 4.1.3 or later.
- At a minimum, the workstation must have 64 MB of memory.
- The workstation must have 60 MB of hard disk space available.
- It is recommended that the workstation have 64 MB of swap space available.
- At a minimum, the workstation must have a 19-inch color monitor.
- The workstation must be running X11R5 or Motif 1.2.
- Optionally, the workstation may run NewView for AIX Version 4.
- The workstation must be running the C Shell.
- An 8 mm tape drive (DAT) is required for installation.

1.9.2 RouteTracker Installation on AIX

To install the software, complete the following steps:

1. cd to the path where you want the installation program to create the RouteTracker directory. If the path does not exist, then create it. For example:

   % mkdir /usr/home

   % cd /usr/home

   A directory named RouteTracker will be created in this location.

2. Mount the distribution tape and extract the tar file. For example:

   % tar xvf /dev/rst0

   The installation begins. The RouteTracker files are listed on the screen as they are extracted from the tape. When the extraction is complete, perform the next step.

3. In your .cshrc file, create two environment variables called ROUTETRACKER_HOME and WUHOME and set them to the location in which you installed RouteTracker. For example:

   setenv ROUTETRACKER_HOME /usr/home/routetracker

   setenv WUHOME /usr/home/routetracker

4. In your .cshrc file, add $ROUTETRACKER_HOME to your library path. For example:

   setenv LIBPATH /usr/lib/X11:$ROUTETRACKER_HOME

5. In your .cshrc file, add $ROUTETRACKER_HOME to your file search path. For example:

   set path=(/usr/bin\

```
/bin \

/usr/etc \

$ROUTETRACKER_HOME \

.)
```

6. Source your .cshrc file when all edits have been completed:

   ```
   % source .cshrc
   ```

7. Locate file RouteTracker.ini in the RouteTracker directory created during installation. For example:

   ```
   /usr/home/routerracker/routetracker.ini
   ```

   One line in file RouteTracker.ini must be edited to reflect the location of the RouteTracker database directory on your system. The line is DatabaseDir="database_location"

   The RouteTracker database directory is located in the RouteTracker directory created during installation and is named database. For example: /usr/home/routetracker/database

   Edit file RouteTracker.ini so that the line DatabaseDir="database_location" reflects the location of the RouteTracker database directory on your system. In this example the line in file RouteTracker.ini should be edited to appear as follows:

   ```
   DatabaseDir="/usr/home/routetracker/database"
   ```

8. To run RouteTracker stand-alone:

   ```
   % routetracker
   ```

1.10 Network Management/RouteSwitch Compatibility Matrix

Below are matrices containing RouteSwitch Network , 8274 LAN RouteSwitch, and 8273 Ethernet RouteSwtich Compatibility.

Network Management

	Software Release						
Product	2.0.3	2.0.4	2.0.5	2.1.1	2.1.2	2.1.3	2.1.3.D
RouteSwitch Network Manager							
Rev. 2.0	x	x	x	No	No	No	
Rev. 2.0.3	x	x	x	No	No	No	
Rev. 2.1	*Yes	*Yes	*Yes	No	No	x	
RouteTracker							
Rev. 2.0	No	No	No	No	No	No	No
Rev. 2.0.6		x	x	No	No	No	No
Rev. 2.1	No	No	No	No	No	**Yes	x
RouteMonitor							
Rev. 2.1	No	No	No	No	No	x	

*Yes. Using Revision 2.1 of RouteSwitch Network Manager with RouteSwitch software release 2.0.3, 2.0.4, and 2.0.5 will function, however, it is preferable to use revision 2.0 or 2.0.3 of RouteSwitch Network Manager with RouteSwitch software 2.0.3, 2.0.4 and 2.0.5.

**Yes. Using Revision 2.1 RouteTracker with RouteSwitch software release 2.1.3 will function, but does not show all of the forwarding tables information correctly. It is recommended to use Revision 2.1 of RouteTracker with RouteSwitch 2.1.3.D.

2. RouteTracker Release Notes for Microsoft Windows 95 and Windows NT 4.0

2.1 Introduction

These Release Notes cover the basic feature set supported for IBM Nways RouteTracker Manager (RouteTracker) Version 2.1. RouteTracker runs on Microsoft Windows 95 and Windows NT 4.0.

These Release Notes include known limitations, bugs and known work-arounds for RouteTracker.. Please read the applicable sections in their entirety as they contain important operational aspects that may impact your network.

2.2 Feature Set Supported

RouteTracker Version 2.1 supports the RouteTracker feature set released with RouteSwitch Version 2.1.3 software. The following new features and enhancements are included with the RouteTracker 2.1 release:

- ROUTEfinder software is installed with RouteTracker. RouteTracker 2.1 uses ROUTEfinder to define switch configurations for the RouteTracker network tree. ROUTEfinder also implements switch polling to update the ROUTEfinder database.
- You can configure RouteTracker 2.1 to update the network tree from the ROUTEfinder database or directly from the switches.
- You can launch RouteSwitch Network Manager Software 2.1 from RouteTracker 2.1.
- RouteTracker 2.1 supports multicast VLANs and allows you to set multiple protocol, network address, and user rules.
- RouteTracker 2.1 now recognizes ATM, FDDI/CDDI, and Frame Relay modules and service ports. You can include these ports in VLAN port rules. To manage these ports (for example, add ports to a Group or remove ports from a Group) you must use RouteSwitch Network Manager Software or the RouteSwitch User Interface (UI).

2.3 Technical Support Contacts

IBM Technical Support can be reached at **1-800-IBM-SERVE (426-7378).**

2.4 Microsoft Windows 95 and Windows NT 4.0

2.4.1 System Requirements

Refer to the *IBM Nways RouteTracker User's Guide,* GC30-3872 for system requirements.

2.4.2 RouteTracker Installation

Please review the following before installing RouteTracker software.

- When installing RouteTracker on Windows NT 4.0 with other RouteSwtich products, recommended virtual memory swap file settings are 64 MB minimum and 113 MB maximum.
- Install RouteTracker and RouteMonitor in the same directory.
- RouteTracker and RouteMonitor both install the same version of ROUTEfinder. As a result, the ROUTEfinder database is overwritten. To avoid loosing switch definitions, install both products before configuring switch information.
- Refer to the *IBM Nways RouteTracker User's Guide,* GC30-3872 for software installation instructions.

2.5 General Instructions and Notes

1. You must run RouteTracker Version 2.1 with RouteSwitch version 2.1.3 or its subsequent maintenance versions for full compatibility.
2. This version of ROUTEfinder does not include the Type field on the Control Properties User Defined Devices tab. ROUTEfinder polling automatically detects and updates this information.
3. Community strings defined in ROUTEfinder must match those defined for the switch.
4. ROUTEfinder initially enables polling for switches. To disable polling for an individual switch, access the Control Properties Polling Parameters tab and click the checkbox next to the switch entry. The Enable/Disable Poll command on the switch pop-up menu does not work at this time.
5. RouteTracker requires you to configure RoutePort uplink connections using the Chassis RoutePort Connection dialog box. It is not necessary to define RoutePort information in the ROUTEfinder database.
6. There is no import switch capability with RouteTracker or ROUTEfinder for this release.
7. There is no RouteDiscovery for this release. This functionality is planned for a future release of ROUTEfinder.
8. If you have selected the Enterprise Properties “Always Update from database” option, any activates you perform with RouteTracker are lost if you perform “Update Tree item” before the next ROUTEfinder polling cycle occurs. (PR 4876)
9. When you start the RouteTracker application, if RouteTracker cannot find the database file, RouteTracker still opens and allows you to use the Open command from the File menu to point to a valid database location. If for any reason the database file is corrupted, it may be necessary to re-install RouteTracker software.
10. If a Group or VLAN has different names on different switches, the Network Tree displays the name from the last Switch polled. RouteTracker now displays Group numbers to further identify Groups.
11. After an Update, all ports appear with a "+", designating lower entries (forwarding table addresses). It is necessary to Query the Forwarding Table on each switch before any addresses appear under the ports. Once the switch has been Queried, all ports will still show a "+" until after the "+" has been clicked. This is also true for all Network Tree items.
12. If using many MAC Address Rules on VLANs, the application response will get very sluggish during VLAN Rule Properties dialogs. (PR 3641)
13. If it is desired to modify a MAC Rule, it is highly recommended to Delete the VLAN first, and then recreate it. This is because the switch processes a duplication check on every Address that is sent on a Modify Rule request. This can take hours with many (hundreds of) MACs. (PR 3631)
14. It is currently necessary to manually enter each MAC Address on each switch for MAC Rules. (PR 3365, 3633)
15. Uninstall icon not provided as part of RouteSwitch Program Group. Use Windows Add/Remove utility, however, check registry and RouteTracker directories to make sure all information and files are removed.

2.6 Known Problems

The problems listed here cover all problems known at the time of the release of RouteTracker Version 2.1 for Windows 95 and Windows NT 4.0.

Problem Report 2187

The on-line Help file is not implemented.

Work-around: See the User Manual.

Problem Report 2324

RouteTracker and HP OpenView launch separate instances of the RouteSwitch Network Manager Software application. There may be anomalies if two RouteSwitch Network Manager Software applications are running at the same time. It is recommended to only have one instance running at a time.

Work-around: Close one of the application instances.

Problem Report 2859

Add Multicast VLAN or AT VLAN range of MAC addresses does not check if the From address is greater than the To address. There is no warning message and the To address is added to the Known MAC address list. Add Multicast VLAN range of multicast addresses adds both the From and To addresses to the Known Multicast addresses list. No other addresses are added and there is no warning message.

Work-around: Ensure that To address is greater than From address.

Problem Report 2952

MAC Rule Addresses that get sent from RouteTracker are displayed in random order on the switch.

Work-around: None.

Problem Report 2964

There is a delayed reaction on the RouteSwitch when deleting several groups at the same time. It may take a couple minutes before the Groups no longer appear on the switch.

Work-around: Wait a couple minutes after Deleting several Groups (from Activate Enterprise Network) before doing an Update.

Problem Report 2992

The Update Group function is disabled if the Group icon is gray.

Work-around: Must Update at the Enterprise level to get the current information.

Problem Report 3020

If a Group is added to a switch from another source, an Update Group function will not show that switch on the Group.

Work-around: Must Update Enterprise to get current data on all switches for all Groups.

Problem Report 3071

RouteDiscovery not available in this release. Future release of ROUTEfinder will provide this functionality.

Work-around: Use this release of ROUTEfinder to enter switch list information for polling into database.

Problem Report 3103

It is not possible to set the IPX Source Routing type on a Create IPX Route. RouteTracker sets ARE as the default value.

> **Work-around**: Create the IPX Route with the ARE default, then Modify the Route to change the SR type (default ARE type is set by the switch).

Problem Report 3184

"Change Switch List" does not always behave as expected when adding a new switch with ports and removing an old switch at the same time.

> **Work-around**: In this case, it is better to remove the old switch and add the new switch without ports and activate Group. Then modify Group to add ports.

Problem Report 3421

Ports in disabled admin status VLANs appear as Virtual Port #00 in the Tree and in Modify VLAN Properties - Port Rules.

> **Work-around**: None.

Problem Report 3683

After removing Port Rules from a VLAN, the Group won't allow the ports to be removed until after the VLAN is Activated.

> **Work-around**: Remove the port rules from the VLAN. Activate the VLAN. Then remove the ports from the Group.

Problem Report 3878

Windows Add/Remove Programs utility does not always clear registry entries or application files.

> **Work-around**: Delete the files in the RouteTracker directory through the Windows file management application. Remove the IBM directories from the Registry Editor (regedit). Remove the RouteTracker .INI file from the \Windows directory or \Winnt directory for Windows NT 4.0.

Problem Report 3930

Modifications to Groups/VLANs, such as removing ports, show up automatically on List side but not always on Network Tree side of display.

> **Work-around**: Refresh tree item at Enterprise, Group, VLAN, or switch level to update Network Tree.

Problem Report 4125

No error message when modifying AT VLAN to add an IP Network Address rule to VLAN that already has an EtherType Protocol rule with a value of 800 (800 EtherType = IP). OK when creating a new AT VLAN.

> **Work-around**: Check VLAN Protocol rules for EtherType value of 800 and remove, if necessary, before adding an IP Network Address rule.

Problem Report 4686

Making more than one modification to multicast addresses before activating in MC VLAN that was created with only one MC address and MAC address rules, causes activate to fail. Problem does not occur if MC VLAN was created with more than one multicast address.

Work-around: Activate MC VLAN after each MC address modification.

Problem Report 4722

Dragging an existing port to a VLAN causes the VLAN icon to turn gray even though a change was not made to VLAN.

Work-around: Activate VLAN.

Problem Report 4856

RoutePort ports do not always display on List side.

Work-around: None.

Problem Report 4965

Dragging multiple ports from a switch to a Group/VLAN that does not contain the switch does not prompt to confirm adding the first slot/port to the Group/VLAN. Does prompt for confirmation before adding subsequent ports.

Work-around: None.

ROUTEfinder

Problem Report 4637

Properties, such as the name, the IP address, or community string, for configured switches cannot be changed.

Work-around: Delete switch and add again with new information.

Problem Report 4761

Status field length too short for atmcVLANRuleSumTable. The atmcVLANRuleSumTable entry column misaligns the status column in the MIB Communication and Data Status window.

Work-around: None. Fix scheduled for nest release.

Problem Report 4947

Menu item File|Save and Save as... not implemented yet.

Work-around: Do not use File/Save and Save as… menu items.

Problem Report 4948

Menu item File|Open not implemented yet.

Work-around: Do not use File/Open menu item.

Problem Report 4949

Use of tab and return editing features in ROUTEfinder Properties dialog confusing.

Work-around: Recommend users stay with mouse selection unless armed for the confusing selection attributes; i.e., the OK button must be tabbed in twice to transfer added switches to the ROUTEfinder discovery list.

Problem Report 5004

Polling cannot be enabled/disabled on per switch basis from switch pop-up menu.

Work-around: To enable/disable polling, click on switch checkbox in the Control Properties Polling Parameters tab dialog.

Problem Report 5013

Apply button in Control Properties dialog does nothing. Apply button grays out, but no previously added switch moves to ROUTEfinder switch list.

Work-around: None. Implementation scheduled for 3.0 release.

2.7 Network Management/RouteSwitch Compatibility Matrix

Below are matrices containing IBM Nways RouteTracker Manager , IBM 8274 LAN RouteSwitch, and IBM 8273 Nways Ethernet RouteSwitch compatibility.

Network Management

	Software Release					
Product	2.0.3	2.0.4	2.0.5	2.1.1	2.1.2	2.1.3
RouteSwitch Network Manager						
Rev. 2.0	x	x	x	No	No	
Rev. 2.0.3	x	x	x	No	No	
Rev. 2.1	*Yes	*Yes	*Yes	No	No	x
RouteTracker						
Rev. 2.0	No	No	No	No	No	No
Rev. 2.0.6		x	x	No	No	No
Rev. 2.1	No	No	No	No	No	x
RouteMonitor						
Rev. 2.1	No	No	No	No	No	x

*Yes. Using Revision 2.1 of RouteSwitch Network Manager with RouteSwitch software release 2.0.3, 2.0.4, and 2.0.5 will function, however, it is preferable to use revision 2.0 or 2.0.3 of RouteSwitch Network Manager with RouteSwitch software 2.0.3, 2.0.4 and 2.0.5.

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