

Redline 3.5

Installation Guide

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This manual is intended for IT administrators in their use of Redline or anyone wanting to learn more about Redline. It includes installation instructions for various scenarios.

Technical Support

If you have a technical support question, please consult the GWAVA Technical Support section of our website at <u>www.gwava.com</u>. For technical support, call 801-437-5678.

Sales

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About Redline

Redline is a reporting and monitoring solution for Novell GroupWise[®] that provides a Dashboard for quick access to the most critical areas of GroupWise[®], a real time monitoring solution, and a System viewer that allows you to see all of the details of your GroupWise components in a single view. Redline produces reports for system analysis, capacity planning, and security auditing.

Obtaining Redline

Redline can be downloaded for trial at the main GWAVA website: <u>www.gwava.com</u>

Or the direct link to the download form: <u>http://www.gwava.com/products/dev_downloadform.php</u>

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- Although their code does not appear in the current release, the authors also wish to thank Hutchison Avenue Software Corporation for their prior contributions
- > Toffa SyncWise 2005 is produced by Toffa International
- Blackberry is produced by Research in Motion LTD
- NotifyLink is produced by Notify Technology Corporation.

Minimum System Requirements

Core Requirements:

GroupWise 5.5EP, 6.0, 6.5, 7, and 8 (GW 7 or 8 are recommended for full functionality) **Agent:** 10MB Hard Drive Space and 5MB free system memory.

Control Center: Minimum 30 MB Hard Drive Space. DB storage will require additional space, (see specific instructions below).

—There is a bug in GroupWise 6.5 SP2 preventing correct operation of Redline. This version is NOT supported.—

Specific Operating System requirements:

Netware: NW 6.5 with SP 6. (There is a known issue with the Redline Agent and/or Control Center running protected memory with 6.5 SP7 & SP8) --Older NetWare systems which may work but are no longer tested or supported: 5.1 with SP 8; 6.0 with SP5 and the latest FTF LibC update Linux: SLES 10 all SP on 32/64 bit; SLES 11 32/64 bit; Linux OES2 32/64 bit For all Linux systems, the EXT3 file system is highly recommended. Windows Agent: Windows 2000 SP4, 2003, 2008

Servers running the Redline Control center should have free memory based on this calculation:

40MB + 4MB for every agent + largest GWCheck file * 1.5. Example:

A system with 100 GW Agents registered and GWCHeck file with up to 1GB:

40MB + (100 * 4) + (1000 * 1.5) = 1940MB.

Ensure the system has enough disk space for the Control Center database. The DB can grow to several GB depending on how the GroupWise system is used.

Supported internet browser

Linux, Windows or Mac. (IE6 or 7, Firefox, Mozilla suite, Konqueror)

It is recommended, that wherever possible, the Redline Control Center be run from a dedicated server.

The following component integrations are supported

- GroupWise Exchange Gateway
- GroupWise Notes Gateway
- GroupWise API Gateway
- GroupWise Messenger 1.0 SP4 or higher
- GroupWise Messenger Archive Agent 1.0 SP4 or higher
- Guinevere 3 or higher
- ➢ GWAVA 3.60 or higher
- ➢ GWAVA 4/5
- GWAVA Reveal 1.1
- GWAVA Reload 1.x and 2.x
- GroupWise Domain
- GroupWise Post Office
- GroupWise Internet Agent
- GroupWise WebAccess Agent

- GroupWise Document Viewer Agent
- GroupWise WebAccess Application
- GroupWise Mobile Server 1 and 2 (Windows and Linux)
- GroupWise Async Gateway 2.0
- GWAVA Retain Server and Worker
- GWAVA Vertigo
- Notifylink 4
- BlackBerry Enterprise Server 4.0 SP2 all versions for GroupWise
- Advansys Archive 2 Go
- Linux, NetWare and Windows Host
- Redline Self monitoring including the Redline Database

Installation

The Redline Installation copies the files needed for both the Redline Control Center and the Redline Agent, but the configuration and startup are different for both. To install either, running the single install on Linux and Netware will install all Redline components. Windows currently only can run the Redline Agent.

The simplest way to install and configure Redline is to follow three steps:

1. Copy over and install Redline 3.5

2. Open the appropriate configuration file in the preferred editor. Remove the 'new install' line from the Redline Agent configuration file, enter the company name and create a registration code. (the company name and registration code is used to communicate between agents and the Control Center. It can be any created code.)

3. Start the Control Center and then the agents individually. Check to ensure that the agents have connected and are reporting to the Control Center. It is recommended to start the agents one at a time then to check for them in the Control Center to avoid confusion.

All additional configuration of the Redline agent for different monitored elements may be completed through the Control Center from the system view tab.

How Redline Works

Redline monitors system-critical modules and processes in the targeted mail and server environment, sends alerts, compiles statistical reports, and logs activity for informational analysis. Redline provides a complete and comprehensive status picture and real time monitoring solution for the supported systems.

Redline works to monitor systems with two different parts: the Control Center, and the Agent. The Agents gather the information from the different managed systems and sends the pertinent information over encrypted channels to the Control Center. As such, the Agents are best installed, and designed to be installed, on the different monitored systems, to allow secure file access to the pertinent logs and file systems that need to be monitored. The Control Center aggregates and interprets information from all the monitored systems and presents it in a functional manner to the user, with options to manage the information into meaningful presentations. Because the Control Center combines the data while monitoring the active systems, it is best for the Control Center to be separate from the monitored systems. For a further discussion on the function of Redline, see the Administration Guide.

Recommended Implementation of Redline

The optimal setup for Redline, which should be used in all setups except perhaps the smallest systems, consists of the Redline Control Center on a dedicated Linux server, connected to, and monitoring, the rest of the system by agents. This setup is also recommended for clustered systems, with the Redline Control Center as a standalone dedicated server, separate from the monitored system or systems. For specific questions on placement in a clustered environment, contact GWAVA Support. In the move to full 64-bit support and because the Redline Control Center is not recommended on NetWare, and also because Redline 4, the next iteration of Redline, will not support Control Centers on NetWare, it is highly recommended to setup the Redline Control Center on SUSE Linux, either 32-bit or 64-bit.

Windows, Linux, and NetWare agents will still be able to be installed and connect to the Redline Control Center, and having the server separate from the monitored system supports the integrity of the reporting scheme in case of a monitored system failure.

Linux Installation

Redline provides a RPM file for automatic installation and update and a tar.gz file for manual installation. With the RPM file you need root access during installation. It is possible to run Redline as a user as well. Redline ships in 2 versions for Linux: 32-bit and 64-bit versions, ensure that you use the appropriate version for your installation.

RPM Installation

- Login as root or use su to switch to root. gwava@linux-o3in:/root> su Password:
- Go to the folder where Redline was unpacked. Here go to the subfolder linux.suse64/redline. (Or linux.suse32/redline as system appropriate

```
-rwxr--r-- 1 root root 4702083 2010-10-21 16:27 redline-3.5.0-1.i586.rpm
-rwxr--r-- 1 root root 4899097 2010-10-21 16:26 redline.tar.gz
gwava@GWAVA:/root/redline35/linux.suse32/redline>
```

Install the RPM with the rpm command: rpm –U redline-<version number>-1.<platform>.rpm i.e.

rpm -U redline-3.5.0-1.i586.rpm

> Sometimes it happens that you see the following error messages during rpm installation:

file /opt/beginfinite/redline/CC-Templates/redline.js from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/libredline.so.3.5.0 from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lag_poa.so from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lag_reload.so from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lag_reload.so from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lag_reload.so from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lagert from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/lagert from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/rlagert from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/rlcenter from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586 file /opt/beginfinite/redline/bin/rlcenter from install of redline-3.5.0-1.i586 conflicts with file from package redline-3.5.0-1.i586

> If you see these errors that some xml or html files conflict, Install the RPM with the rpm command:

rpm -U --force redline-3.5.0-1.i586.rpm

RLCENTER and **RLAGENT** startup scripts will automatically be copied to /etc/init.d and set up with the appropriate run level symbolic links

Install with the tar.gz file

- Login as root or use su to switch to root. gwava@linux-o3in:/root> su Password:
- Create the folder /opt/beginfinite/redline

mkdir /opt/beginfinite/redline/

Give the user who will run Redline read and write permissions to that folder. You can do this by switching the owner of the folder to that user.

chown uli /opt/beginfinite/redline/

> Login as a regular user or exit from root user access

- Go to the folder where Redline was unpacked cd ~/Redline/linux.suse10/redline/
- Unpack the tar.gz file
 tar -zxvf redline.tar.gz
- Go to the subfolder bintree/opt/beginfinite cd bintree/opt/beginfinite/
- > Copy Redline to /opt/beginfinite/redline

cp -r redline/ /opt/beginfinite/

Switch to root again

gwava@linux-o3in:/root> su Password:

> Copy bintree/lib/libredline.so.3.5.0 to /lib or /lib64 as appropriate

se10/redline/bintree/lib> cp libredline.so.3.0.0 /lib/

- Go to the /lib or /lib64 folder
 cd /lib/
- > Create a link to libredline.so.3 in the /lib or /lib64 folder

```
ln -s libredline.so.3 libredline.so.3.0.0
```

- run Idconfig to import the new library symbols
 ldconfig
- > (Optional) Copy rlcenter and rlagent from redline/linux.suseXX/redline/bintree/etc/init.d to /etc/init.d

Start Control Center on Linux

Redline on Linux can run as a background process and, mostly for debugging purposes, as a foreground process with a screen similar to the NetWare screen. There is a start/stop script in the folder /etc/init.d. To start the Control Center, go to /etc/init.d and type rlcenter start.

```
gwava@linux-o3in:/root> su
Password:
linux-o3in:~ # cd /etc/init.d
linux-o3in:/etc/init.d # ./rlcenter start
```

In order to start the Control Center with a GUI screen, make sure you have the GNOME desktop installed. It is possible to use the KDE desktop as well, but the GTK libraries need to be installed on your system. To start the Control Center with a screen:

> go to the folder **/opt/beginfinite/redline/bin**

cd /opt/beginfinite/redline/bin/

> start the control center with the command line switch --show

```
./rlcenter -c /opt/beginfinite/redline/conf/rlcenter.conf --show
```

The Control Center Screen on Linux shows up with a couple of options available through the main menu.

Redline Control Center 3.5.0	(1003) - Control Center 📃 🗆 🗙
<u>F</u> ile <u>A</u> ctions <u>H</u> elp	
Configuration	Up Time
./conf/rlcenter.conf	0 d, 0 h, 1 m, 1 s
Status	Settings
Act. Hosts/Agents: 0 / 1 Database Schemas: 29	Agent Listener: [Enabled] Listen on Host: All IP:6900
Debug Level: 2	Listen on Host: All IP:6910
Logging Date Time M. 12-30-2010 09:31:16 Main ca 12-30-2010 09:31:16 MTA Main ca 12-30-2010 09:31:16 MACA 12-30-2010 09:31:16 Kacoun 12-30-2010 09:31:16 Kacoun 12-30-2010 09:31:16 Kacoun 12-30-2010 09:31:16 HTTP S 12-30-2010 09:31:16 HTTP S 12-30-2010 09:31:18 Redline 12-30-2010 09:31:36 Checkin 12-30-2010 09:31:51 Checkin 12-30-2010 09:32:06 Checkin	essage ache folder import thread started. essage Import Service started. ting import thread started. ot/Scheduler Service started. istener Service started. ervice started. ervice started. control Center is up and running. ng cache folders. ng cache folders. ng cache folders.

Start Agent on Linux

Redline on Linux can run as a background process and, mostly for debugging purposes, as a foreground process with a screen similar to the NetWare screen. There is a start/stop script in the folder /etc/init.d. To start the Agent, go to /etc/init.d and type ./rlagent start.

```
gwava@linux-o3in:~> su
Password:
linux-o3in:/home/gwava # cd /etc/init.d
linux-o3in:/etc/init.d # ./rlagent start
```

In order to start the Agent with a GUI screen, make sure you have the GNOME desktop installed. It is possible to use the KDE desktop as well, but the GTK libraries need to be installed on your system. In order to start the Agent with a screen:

> go to the folder **/opt/beginfinite/redline/bin**

```
cd /opt/beginfinite/redline/bin/
```

> start the agent with the command line switch --show

```
./rlagent -c /opt/beginfinite/redline/conf/rlagent.conf --show
```

If the Agent is started the very first time and the configuration file has not yet been modified, you will be asked for Registration Name, Registration Code, Control Center IP address and port. Everything else can be configured through the Control Center web interface.

Control Cent	ter Connection Config	uration _ □ ×
Registration Name:	Your Company Name	
Registration Code:	012345678901234567	
Control Center Address:	127.0.0.1	
Control Center Port:	6900	
	ок	Cancel

The Agent Screen on Linux shows up with a couple of options available through the main menu.

Redline Agent 3.1.0 ((908) - Data Collection Agent _ 🗆 🗙
<u>Eile A</u> ctions <u>H</u> elp	
Configuration	Up Time
/opt/beginfinite/redline/conf/rlage	ent.conf 0 d, 0 h, 0 m, 7 s
Status	Settings
Monitored Agents: 3 (3 Active) Database Schemas: 30 Loaded Modules: 24 Loops OK (Stuck): 2 (0) Logging Date [Time M 02-05-2008 [22:45:07 C 02-05-2008 [22:45:07 A 02-05-2008 [22:45:07 A 02-05-2008 [22:45:07 R 02-05-2008 [22:45:08 R	HTTP Monitor: [Enabled] Logfile Monitor: [Enabled] File Sys Monitor: [Enabled] GWCheck Monitor: [Enabled] GWCheck Monitor: [Enabled] GWCheck Monitor: [Enabled] defile Agent Version 3.1.0 (Build: 308) bredline so Version 3.1.0 (Build: 908) bredline so Version 3.1.0 (Build: 907) ime Service successfully started. gent Monitor Service successfully started. soptimeout is 120 seconds. egister Agent Ikuli to Control Center. egister Agent GMS-sanbon to Control Center. egister Agent GMS-sanbon to Control Center. edine Agent is up and running.

Linux Cluster Installation

To install Redline into a Linux Cluster environment, a few things need to be changed, mainly, where Redline is installed.

- Install Redline to one of the cluster nodes according to the normal procedure for Linux. (rpm -U redline-<version number>-1.<platform>.rpm)
- Redline installs to /opt/beginfinite/redline by default. Copy the entire Redline directory to each of the resources. (resourcevol/redline)
- Navigate to /etc/init.d directory on the machine you installed Redline, and rename the rlagent file to rlag.

NOTE: The default installation installs both Redline Agent and Control Center. It is recommended to run the command: "chkconfig --del rlcenter" to stop the Control Center from automatically loading. Once the Redline Agent has been copied to all the resources in the cluster, the default installation folder on the node can be removed.

- > Copy the newly renamed rlag file to the resourcevol/redline/bin on each resource.
- Edit the newly renamed rlag file. Every listed directory in that file must now point to the resource directory. (Defaults will look like: /opt/beginfinite/redline/bin) Modify the path to reflect the resource volume, ie. /resourcevol/redline/bin . There will be 5 to 6 paths to modify. Save the file. Edit the rlag file for each resource.
- Open the rlagent.conf file that was copied over to the cluster volume. In the "conf" folder, the "rlagent.conf" file needs to be edited. Remove the "NEWINSTALL" line at the top. Input the correct Control Center information in the [CCenter1] section, (IP, Port, Registration information needs to match the information put into the Control Center configuration file.) There are two other special settings that need to be set for the cluster environment. The [HOST] and [GLOBAL] sections must be modified. For the [HOST] section under the Agent=enabled, add a line: AgentName=HOST RESOURCE NAME

Modify each cluster resource appropriate name; the name can be anything desired, but it is recommended to name it the resource so it is easily recognized in the Control Center. The [GLOBAL] section is very similar, the RedlineAgentName parameter is commented out, enable it and specify: RedlineAgentName=RLAgent_RESOURCE_NAME. You'll want to change the volume name for each cluster.

- Startup the individual agent by specifying the path to: /resourcevol/redline/bin/rlag start Unload the individual agents by referencing the same path: /resourcevol/redline/bin/rlag stop These are the start and stop scripts.
- Finally make sure that you have the Redline libraries installed on each node. Locate the Redline.tar.gz file, located in the install folder where Redline was downloaded. Go to redline/linux.suse< 32 or 64 as appropriate>/redline You should find two files: redline-<version number>-1.<platform>.rpm redline.tar.gz

Unzip the redline.tar.gz file. A new directory called 'bintree' will appear which will contain a file called "libredline.so.3.5.0". Copy the 'libredline.so.3.5.0 file to the lib directory (/lib or /lib64) of each of the nodes.

On each of the nodes, run the command: Idconfig NOTE: Idconfig must be run in order to create the necessary links and cache, (used by the run-time linker, Id.so), to the most recent shared libraries found in the directories specified on the command line, in the file /etc/Id.so.conf, and in the trusted directories, (/usr/lib and /lib).

NetWare Installation

There are two ways to install Redline on a NetWare Server. The Windows based installer and the NetWare based install script. The Windows install script is, by far, the preferred and best method. With the NetWare install script you can install Redline to any NetWare Server through any remote console like RCONSOLE, SSH or RCONJ. The Windows Installer requires an up to date NetWare client, logged into each server that Redline is to be installed onto with a user with sufficient rights to the SYS volume.

The Windows Installer

> From the /redline/netware/ folder run the **setup.exe**. Click **Next**.

Redline for NetWare - Welco	me 🔀
Redline	Many Thanks for your interest in Redline
	This Wizard will guide you through the Installation process. ATTENTION: After Installation you need
	from the Control Center.
	< Back Next > Cancel

> Accept the license agreement. Click **Next**.

Redline for NetWare - Licens	e Agreement 🛛 🔀
Redline Installation	License Agreement for - Redline USER AGREEMENT AND SOFTWARE LICENSE TERMS. BEFORE YOU CLICK ON THE ACCEPT BUTTON AT THE BOTTOM, CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. BY CHECKING THE "ACCEPT BUTTON, YOU ARE CONSENTING TO BE BOUND BY
	< Back Next > Cancel

> Select the server that the Control Center will run on. Click **Next**.

Redline for NetWare - Choose	e Control Center Server
Redline Installation	Please select the servers where you want to install the Redine Control Center NetWare Server PROV01 TEST
	< Back Next > Cancel

Select the server or servers that the Agents will run on. It is possible to install the Control Center and Agents with one setup on multiple machines. Click **Next**.



Select Install / Update and click Finish. It is possible to have the installer configure Redline to run in a protected address space. That way it isn't necessary to modify the NCF files to start Redline in protected memory. By default, Redline installs two files, RLCCP.NCF and RLAGP.NCF which can be used to start the Control Center or Redline Agent into a protected address space at any time.

NOTE: Protected memory should not be utilized on NetWare systems running 6.5 SP 7 or 8, as it contains a bug causing problems with the libraries used by Redline.

Redline for NetWare - Install	/Uninstall
Redline Installation	Please specify if you want to Install / Update or Uninstall - Redline - Install / Update Iministall Into Protected Address Space Uninstall ATTENTION: If you uninstall Redline the Agent and Control Center will be removed from the server.
	< Back Finish Cancel

> The Windows Installer updates your AUTOEXEC.NCF file after successful installation automatically.

The NetWare Install Script

> Run **NWCONFIG** from the NetWare System Console and select **Product Options**.

river Options (load/unload disk and network drivers)
raditional Disk Options (configure NetWare partitions/volumes) SS Disk Options (configure NSS storage and volumes) icense Options (install or renove licenses) irectory Options (create/edit server startup files) ulti CPU Options (otstall/vuninstall SNP) (oduct Options (other optional installation itens)

> Select Install a product not listed from the menu

NetWare Configuration	
Other Installation Items/Products — Add additional Language to the server Change the Language on this server	
Other Installation Actions	
Choose an item or product listed above Install a product not listed View/Configure/Renove installed products Return to the previous menu	

> Specify a directory path where Redline was unpacked after download.





- > Accept the license agreement.
- > Update **AUTOEXEC.NCF** after installation.

Update	AUTOEXEC.NCF?
No	
Yes	

> After Installation you can start the Control Center from the installation script.

Start	Redline	Control	Center?
No			
Yes			

After successful installation Redline shows up in the list of installed products.

Install Control Center to a non SYS Volume on NetWare

Redline expects to be installed on the SYS volume in a NetWare system. To move Redline to another volume requires several steps. The example assumes that the new volume is named MYRL, and Redline is to be moved directly under the root. (e.g. MYRL:\opt\Beginfinite\Redline is the product path)

- > Stop the Redline Control Center. If an Agent is running on the same server, stop the agent as well.
- Check your search paths and look for the Redline search path with the SEARCH command. Look which search number the redline path has. In our case the Redline search path is number 18. It is likely that this number is different in your environment.

ULIX:se	earch
Search	1: [Server Path] SYS:\SYSTEM\
Search	2: [DOS Path] C:\NWSERVER\ (default directory)
Search	3: [Server Path] SYS:\JAVA\NWGFX\
Search	4: [Server Path] SYS:NJAVANNJCLU2NBINN
Search	5: [Server Path] SYS:\JAVA\BIN\
Search	6: [Server Path] SYS:\NSEARCH\
Search	7: [Server Path] SYS:NBINN
Search	8: [Server Path] SYS:NLIBN
Search	9: [Server Path] SYS:NUSRNLOCALNBINN
Search	10: [Server Path] SYS:\TOMCAT\33\BIN\
Search	11: [Server Path] SYS:\XTIER\
Search	12: [Server Path] SYS:\APACHE\
Search	13: [Server Path] SYS:\PHP\
Search	14: [Server Path] SYS:\APACHENIFOLDERNSERVERN
Search	15: [Server Path] SYS:TESTKITSNTCN
Search	16: [Server Path] SYS:\APACHE2\
Search	17: [Server Path] SYS:SYSTEMN
Search	18: [Server Path] SYS:\OPT\BEGINFINITE\REDLINE\BIN\
ULIX:_	

> Remove the current search path

SEARCH DEL 18 (Or whatever the number is in your environment)

- Move the entire SYS:\opt\beginfinite\redline tree to MYRL:\opt\beginfinite\redline, including all subdirectories.
- Create an empty folder on SYS, which will be a placeholder. It is recommended to create a folder SYS:\mnt\posix\myrl. Do not create any subfolders in this new folder. This is necessary because Redline is a POSIX application on NetWare, and SYS is the virtual root on Netware, comparable with / on Linux or UNIX.
- Type EDIT SYS:\etc\pathtab at the system console. If prompted to create a new file, do so. Add the following line to PATHTAB and save it:

/mnt/posix/myrl <space> myrl:, where <space> is a space character. This step enables POSIX mapping between the /mnt/posix/myrl mount point on SYS and the real Netware volume where Redline was copied to.

- Type EDIT myrl:\opt\Beginfinite\redline\bin\rlcc.ncf . Correct the path, which currently points to SYS. Be aware that you need to specify a NetWare style path here; which means you need a path in the form VOLUME:\opt\beginfinite\redline\conf\rlcenter.conf.
- Add the new search path

SEARCH ADD MYRL:\opt\beginfinite\redline\bin

- **EDIT AUTOEXEC.NCF**, and add the same search path. Remove any old obsolete search path.
- On NetWare 6.5 and OES you can test if POSIX paths are working, if BASH is installed on your system. type:

BASH cd /mnt/posix/myrl ls

- You should see the content of MYRL:\ in the folder sys:\mnt\posix\myrl..
- Edit myrl:\opt\beginfinite\redline\conf\rlcenter.conf and change all path names. add /mnt/posix/myrl to all path names:

LogFilePath=/mnt/posix/myrl/opt/beginfinite/redline/logs DataPath=/mnt/posix/myrl/opt/beginfinite/redline/db ConfigPath=/mnt/posix/myrl/opt/beginfinite/redline/conf ImportPath=/mnt/posix/myrl/opt/beginfinite/redline/imp SoftwarePath=/mnt/posix/myrl/opt/beginfinite/redline/software

CCTemplatePath=/mnt/posix/myrl/opt/beginfinite/redline/CC-Templates

You should now be able to run the Control Center from volume MYRL by typing RLCC. If more information on pathtab and POSIX path names is needed, check the Appendix of this manual.

Start Control Center on NetWare

During installation a search path to SYS:\OPT\BEGINFINITE\REDLINE\BIN was added to AUTOEXEC.NCF and executed on the command line.

To start the Control Center, type RLCC on the System Console:

ULIX:rlcc	
Loading Module	RLCCLOAD.NLM
Loading Module	RLCC6.NLM
Auto-Loading	Module NWSNUT.NLM
Auto-Loading	Module LIBREDLL.NLM
ULIX:_	

RLCC is a NCF file which loads RLCCLOAD.NLM. This is a NLM which checks whether LIBC.NLM, the NetWare Version, and Support Pack Version are current enough. If this check fails, the Redline Control Center will not start and returns a message to the user that the system needs to be updated. This avoids possible ABENDs on the NetWare server. RLCCLOAD.NLM loads RLCC6.NLM, which is the main Control Center binary.

If you want to run the Control Center in a protected address space on NetWare, it is possible to simply use **RLCCP.NCF** instead of RLCC.NCF. Alternatively, you can edit RLCC.NCF and replace **rlccload.nlm** with **load protected rlcc6.nlm**. In protected memory, Redline needs its own address space; you can't start it with another application in the same address space.

NOTE: Protected memory should not be utilized on NetWare systems running 6.5 SP 7 or 8, as it contains a bug causing problems with the libraries used by Redline.

NetWare Text Editor 8.00.	NetWare Loadable Module
Current File "SYS:OPTNBEGINFIN	ITENREDLINENBINNRLCC.NCF"
Load protected rlcc6.nlm -c sys:\opt\begi	nfinite\redline\conf\rlcenter.conf -d

If the Control Center was loaded successfully on NetWare, you can see the Control Center screen. Redline 3.5 © 2011 GWAVA Inc.

Redline Control Center 3.5.0 (999)	NetWare Loadable Module
Configuration : sys:\opt\beginfini Agent Listener : [Enabled] Listen on Host : All IP Listen on Port : 6900 Act. Hosts/Agents: 0 / 1	ite\redline\conf\rlcenter.conf HTTP Server : [Enabled] HTTP Listen Host: All IP HTTP Listen Port: 6910 Uptime : Od Oh Om 2s
Date Time Message 11-16-2010 14:51:41 Graph Service star 11-16-2010 14:51:41 Import Service star 11-16-2010 14:51:41 Import Service star 11-16-2010 14:51:41 MTA Message Import 11-16-2010 14:51:41 SnapShot/Scheduler 11-16-2010 14:51:41 Agent Listener Ser 11-16-2010 14:51:41 Time Service start 11-16-2010 14:51:41 Import Monitor suc 11-16-2010 14:51:41 Main cache folder 11-16-2010 14:51:41 Redline Control Ce	rted. Arted. Service started. Service started. rvice started. ed. ced. ccessfully started. import thread started. thread started. enter is up and running.

Start Agent on NetWare

During installation a search path to SYS:\OPT\BEGINFINITE\REDLINE\BIN was added to AUTOEXEC.NCF and executed on the command line.

To start the Agent, type **RLAG** on the System Console:



RLAG is a NCF file which loads RLAGLOAD.NLM. This is a NLM which checks if LIBC.NLM, the NetWare Version and Support Pack Version are current enough. If not, the Redline Agent will not start and returns a message to the user that the system needs to be updated. This avoids possible ABENDs on the NetWare Server. RLAGLOAD.NLM loads RLAG6.NLM, which is the main Agent binary.

If you want to run the Agent in a protected address space on NetWare, edit RLAG.NCF and replace **rlagload.nlm** with **load protected rlag6.nlm**. When run alone, Redline needs a dedicated address space. You can't start it with another application in the same address space.

NOTE: Protected memory should not be utilized on NetWare systems running 6.5 SP 7 or 8, as it contains a bug causing problems with the libraries used by Redline.



If the Agent is started the very first time, you will be asked for Registration Name, Registration Code, Control Center IP address and port. Everything else can be configured through the Control Center web interface.

Control Center Connection Configuration				
Your Company Name				
012345678901234567				
127.0.0.1				
6900				

If the Agent was loaded successfully on NetWare, you can see the Agent screen.

Redline Agent 3.5.0 (999)	NetWare Loadable Module
Configuration : sys:\opt\beginfini HTTP Monitor : [Enabled] FileSys Monitor : [Enabled] GWCheck Monitor : [Enabled] Monitored Agents : 2 (2 Active)	te\redline\conf\rlagent.conf Logfile Monitor : [Enabled] Stuck Loops : 0 Loops Agent : 1 Uptime : 0d 0h 0m 2s
Date Time Message 11-16-2010 14:52:30 LIBREDLL.NLM Versi 11-16-2010 14:52:30 Time Service succe 11-16-2010 14:52:30 Agent Monitor Service 11-16-2010 14:52:30 Agent Monitor Loop 11-16-2010 14:52:30 Register Agent RLA 11-16-2010 14:52:30 Send Agent RLAgent 11-16-2010 14:52:31 Start _ADMIN copy 11-16-2010 14:52:31 Redline Agent is u 11-16-2010 14:52:31 Redline Agent RLE 11-16-2010 14:52:31 Redline Agent REI 11-16-2010 14:52:31 Redline Agent REI 11-16-2010 14:52:31 Redline Agent REI 11-16-2010 14:52:31 Redither Agent REI 11-16-2010 14:52:32 Agent Monitor Loop	on 3.5.0 (LIBC, Build 999) essfully started. vice successfully started. o running (timeout is 120 seconds). Agent-REDLINE35 to Control Center. c-REDLINE35 (2) Update to Control Center. process. up and running. DLINE35 to Control Center. 235 (3) Update to Control Center. o finished.

Netware Cluster Installation

For High availability it is beneficial to run GroupWise in a Cluster environment. In such a scenario, multiple servers make up a cluster, and every application is running as a resource on the cluster. For more details about NetWare Clusters refer to the Novell Cluster Services documentation.

Control Center

If you want to install the Redline Control Center on a Cluster, create a resource for the Control Center. Make sure that no other POSIX application is running in the same resource, because you cannot run more than one POSIX application in the same address space.

The next step is to install the Control Center as described earlier in this documentation on one of the server nodes, as if this is a single server. Then move the installation to a shared cluster volume. Let's assume MYRL: is a volume on a shared storage device.

- Move the entire SYS:\opt\beginfinite\redline tree to MYRL:\opt\beginfinite\redline, including all subdirectories.
- Create an empty folder on SYS, which will be a placeholder. It is recommended to create a folder SYS:\mnt\posix\myrl. Do not create any subfolders in this new folder. This is necessary because Redline is a POSIX application on NetWare, and SYS is the virtual root on Netware, comparable with / on Linux or UNIX.
- Type EDIT SYS:\etc\pathtab at the system console. If prompted to create a new file, do so. Add the following line to PATHTAB and save it:

/mnt/posix/myrl <space> myrl:, where <space> is a space character. This step enables POSIX mapping between the /mnt/posix/myrl mount point on SYS and the real Netware volume where Redline was copied to. *Do this on every cluster node*.

- Type EDIT myrl:\opt\beginfinite\redline\bin\rlcc.ncf. Correct the path, which currently points to SYS. Be aware that you need to specify a NetWare style path here; which means you need a path in the form VOLUME:\opt\beginfinite\redline\conf\rlcenter.conf.
- > Add the new search path

SEARCH ADD MYRL:\opt\beginfinite\redline\bin

- Edit the start script of the cluster resource and add the same search path. "Add load address space = rlcc rlcc6 -c myrl:\opt\beginfinite\redline\conf\rlcenter.conf" to your resource script to load the Control Center. NOTE: if multiple resources exists in the cluster, and it is possible for them to mount to the same node, different address space names must be specified.
- > Add "rlcenter unload" to your stop script for the Control Center resource.
- On NetWare 6.5 and OES you can test if POSIX paths are working, if BASH is installed on your system. type:

BASH cd /mnt/posix/myrl ls

You should see the content of MYRL:\ in the folder sys:\mnt\posix\myrl..

Edit myrl:\opt\beginfinite\redline\conf\rlcenter.conf and change all path names. add /mnt/posix/myrl to all path names: LogFilePath=/mnt/posix/myrl/opt/beginfinite/redline/logs DataPath=/mnt/posix/myrl/opt/beginfinite/redline/db ConfigPath=/mnt/posix/myrl/opt/beginfinite/redline/conf ImportPath=/mnt/posix/myrl/opt/beginfinite/redline/imp SoftwarePath=/mnt/posix/myrl/opt/beginfinite/redline/software

CCTemplatePath=/mnt/posix/myrl/opt/beginfinite/redline/CC-Templates

You should now be able to run the Control Center from volume MYRL by typing RLCC. If more information on pathtab and POSIX path names is needed, check the Appendix of this manual.

Make sure you test the failover case. You can do so by moving the Control Center resource from one node to another. A real life way is to use an Abend simulation tool. The Redline Agent can be used to simulate an Abend. Start the Redline agent with the startup parameter -a (or --abend) and hit SHIFT-F4. This will generate a Page Fault Abend, and if everything is configured correct, the Control Center resource should move to another node.

Agent

To monitor your clustered system, you must install the Redline Agent on every resource running a GroupWise agent. To install the Redline Agent on a Cluster, create or locate a resource for the Agent. Make sure that no other POSIX application is running in the same resource, because it isn't possible to run more than one POSIX application in one address space.

The next step is to install the Redline Agent as described earlier in this documentation on one of the server nodes, as if this is a single server. Then move the installation to a shared cluster volume. Let's assume MYRL: is a volume on a shared storage device.

- Move the entire SYS:\opt\beginfinite\redline tree to MYRL:\opt\beginfinite\redline, including all subdirectories.
- Create an empty folder on SYS, which will be a placeholder for the Volume. It is recommended to create a folder SYS:\mnt\posix\myrl. Do not create any subfolders in this new folder. This is necessary because Redline is a POSIX application on NetWare, and SYS is the virtual root on Netware, comparable with / on Linux or UNIX. Complete this step for every node the Redline Agent's resource can failover to.
- Type EDIT SYS:\etc\pathtab at the system console. If prompted to create a new file, do so. Add the following line to PATHTAB and save it: /mnt/posix/myrl <space> myrl:\, where <space> is a space character. This step enables POSIX mapping between the /mnt/posix/myrl mount point on SYS and the real Netware volume where Redline was copied to. Do this on every cluster node the Redline Agent's resource can failover to.
- Type EDIT myrl:\opt\beginfinite\redline\bin\rlag.ncf. Correct the path, which currently points to SYS. Be aware that you need to specify a NetWare style path here; which means you need a path in the form VOLUME:\opt\beginfinite\redline\conf\rlagent.conf.
- > Add the new search path

SEARCH ADD MYRL:\opt\beginfinite\redline\bin

> Edit the start script of the cluster resource and add the same search path. Add "load address

space = rlag rlag6 -c myrl:\opt\beginfinite\redline\conf\rlagent.conf" to your resource script to load the Redline Agent. *NOTE: if multiple resources exists in the cluster, and it is possible for them to mount to the same node, different address space names must be specified.*

- > Add "rlagent unload" to your stop script for the Redline Agent resource.
- On NetWare 6.5 and OES you can test if POSIX paths are working, if BASH is installed on your system. type:

BASH cd /mnt/posix/myrl ls

You should see the content of MYRL:\ in the folder sys:\mnt\posix\myrl..

Edit myrl:\opt\beginfinite\redline\conf\rlagent.conf and change all path names. add /mnt/posix/myrl to all path names:

> LogFilePath=/mnt/posix/myrl/opt/beginfinite/redline/logs DataPath=/mnt/posix/myrl/opt/beginfinite/redline/db BinPath=/mnt/posix/myrl/opt/beginfinite/redline/conf SoftwarePath=/mnt/posix/myrl/opt/beginfinite/redline/software

You should now be able to run the Redline Agent from volume MYRL by starting the cluster resouce. If more information on pathtab and POSIX path names is needed, check the Appendix of this manual.

Make sure you test the failover case. You can do so by moving the Redline Agent resource from one node to another. A real life way is to use an Abend simulation tool. The Redline Agent can be used to simulate an Abend. Start the Redline agent with the startup parameter -a (or --abend) and hit SHIFT-F4. This will generate a Page Fault Abend, and if everything is configured correct, the Redline Agent resource should move to another node.

IMPORTANT:

If you run the Redline Agent on a Cluster, you should overwrite the Agent Name reported to the Control Center. In the rlagent.conf file, in the [GLOBAL] section, locate the "# Override the Redline Agent with" option and remove the 'Override' section, leaving the 'RedlineAgentName= section and fill it in. Under the [HOSTS] section, add the 'AgentName=HOST-CLUSTER-X' line. This ensures that the Redline Agent will send information with the same ID regardless from which node data is send. Uncommented lines should include the following in their respective sections:

[GLOBAL] Agent=enabled RedlineAgentName=Redline-CLUSTER-X

[HOST] Agent=enabled AgentName=HOST-CLUSTER-X

All GroupWise components monitored on a cluster should be monitored through the virtual cluster IP.

Windows Installation

Only RLAGENT is provided for the Windows platform – you must run RLCENTER on a NetWare or Linux server. You must use the Windows-based installer to install Redline.

- > Unzip the Redline package onto your Windows desktop.
- > From the /redline/windows/ folder run the **setup.exe**. Click **Next**.



> Accept the license agreement. Click **Next**.

Redline for Windows - Licens	e Agreement 🛛 🔀
Redline Installation	License Agreement for - Redline USER AGREEMENT AND SOFTWARE LICENSE TERMS. BEFORE YOU CLICK ON THE ACCEPT BUTTON AT THE BOTTOM, CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. BY CHECKING THE "ACCEPT" BUTTON, YOU ARE CONSENTING TO BE BOUND BY
	< Back Next > Cancel

Select the drive letter where you want to install the agent. This is necessary if you want to install the agent in a Windows Cluster.



 Select Install / Update and click Finish. Optional you can select to install the agent as a Windows Service.

Redline for Windows - Install	/Uninstall
Redline Installation	Please select what you want to do: Install/Update Uninstall Install Agent as a Service Control Center Address: 192.168.0.1 Control Center Port: 6900 Registration Name: Your Company Name Registration Code: 012345678901234567
	< Back Finish Cancel

Start Agent on Windows

Redline on Windows can run as a Windows Service and, mostly for debugging purposes, as a foreground process with or without a screen similar to the NetWare screen. It is recommended to first launch Redline 'with screen' to ensure that the configuration is correct. After configuring, shut down the service and restart without the screen. In order to start the agent, double click on one of the icons:





If you installed the agent as a service, the agent is not started. It is important to start the agent manually after installation.

If the Agent is started the very first time and the Registration Name is still the default, you will be asked for Registration Name, Registration Code, Control Center IP address and port. If you start the Agent as a service, this dialog does not show up. Everything else can be configured through the Control Center web interface.

🔲 Control Center Connection Configuration 📃 🗖 🔀				
Registration Name:	Your Company Name			
Registration Code:	012345678901234567			
Control Center Address:	127.0.0.1			
Control Center Port:	6900			
	OK Cancel			

The Agent Screen on Windows shows up with all the log entries, similar to the Linux and NetWare agent screen.



It is recommended to run the agent as a Windows Service. A Service is started without logging in to the server, just by booting the machine. That way the Redline Agent is started every time the server is restarted.

Multiple Redline Agents on Windows

It is possible to run multiple instances of the Redline Agent on a Windows box as a server. In order to set this up, you need to do the following:

- Copy the folder c:\opt\beginfinite\redline to c:\beginfinite\redline2 (or another folder like redline3, redline 4 etc.)
- > Open a cmd prompt
- Go to the folder where you've copied your new Redline Agent installation conf folder (c:\opt\beginfinite\redline\conf2
- Edit rlagwin.conf and adjust the folders for LogFilePath, DataPath, BinPath and SoftwarePath
- > Go to the bin folder of your new Redline Agent installation
- Run rlagent install RedlineAgent2 (or any other unique name for this service)

C:\>cd c:\opt\beginfinite\redline2\bin C:\opt\beginfinite\redline2\bin>rlagent install RedlineAgent2 C:\opt\beginfinite\redline2\bin>_

> Wait a moment until a message appears that the agent has been installed successfully.



 (Optional) In order to uninstall the service, type rlagent uninstall RedlineAgent2 (or whatever name you've given the service).

Now you can run the Redline Agent multiple times on your Windows Server:

🍇 Services (Local)						
Redline Agent	Name A	Description	Status	Startup Type	Log On As	
<u>Stop</u> the service <u>Restart</u> the service	Portable Media Serial Number Service Print Spooler Protected Storage	Retrieves the serial Manages all local a Protects storage of	Started Started	Manual Automatic Automatic	Local System Local System Local System	
Description: Monitoring and Reporting for GroupWise	Redline Agent Redline Agent_RedlineAgent2 Remote Access Auto Connection M	Monitoring and Rep Monitoring and Rep Detects unsuccessf	Started	Automatic Automatic Manual	Local System Local System Local System	



Access Control Center

Redline is a full Web Based Application. By default Redline is listening on port 6910. After Installation the default administrator **username** is **admin**, and the **password** is **password**. To access the Web Interface, type

http://a.b.c.d:6910

Where a.b.c.d is the IP address of your Control Center.

Redline ^{3.5}	Login
USER NAME: admin Password:	
C login	

You will be asked for the username and password. The first you will see is the Redline Dashboard. The default username and password is 'admin' and 'password'.

The Dashboard gives an overview of your System, which includes Redline itself and all registered GroupWise components.



Install License

Upon installation, a special 30 day Registration Code was generated for temporary use on all the Control Centers and Redline Agents, along with the Registered Company (which defaults to "Your Company

Name"). The Registered Company field can be changed but make certain you also update every Control Center and Redline Agent configuration file. If the Control Center is running with the 30 day Registration Code, there are NO limitations in functionality, however, the Redline system will become completely inactive after the temporary registration code expires.

When you purchase Redline, you will receive a new pem license file. This file contains all your license information and needs to be installed.

The Registration Name and Code must be on all Redline Control Center and Agent installs. The Name and Code are used to authenticate the agents to the Control Center every time an Agent wants to send data.

Kedline ^{3.5}									4	🛚 Logout 🎯 Adm	in Guide 🎯 Install Gui
	Dashboard	Alerts	System View		Reports	Mes	sage Tracking		Configure	Favorites	Auto Refresh
CONFIGURE	TCP/IP Analyzer	Web Inter	face Database	Manage	Maintenance	License	Online Update	About	Thanks To		
Control Center	Redline Reg	gistratio	n / License								Help
🛨 🏟 Thresholds	👌 Registration										
Recommend	Registration Name:	red	line								
Notification Reports	Registration Code:	492	82								
+ 🚽 Graphs			ok 🔾								
🛨 🙎 User	🥚 🤳 Active Licen	se									
	License Type:	Full L	icensed Version								
					Brows	e_ Instal	License				
	🤳 Installed Lice	enses									
	File RD-3.0.pem	Licens GWAVA	ed to Technologies Inc.			Product Ve 3.0	rsion	T) Fu	ype JII Lioense	Valid until 2018-11-02	Action

- Log in using the web interface
- > Click the **Configure** tab
- > Click the **License** tab
- > Enter the Registration information.
- > Ensure all Redline Agents are updated with this information as well
- Install the license file

Both the Redline Agent and the Redline Control Center use the Registration Name and Registration Code information for two purposes:

- The Redline Agent uses these values as an encryption key when communicating with the Control Center. The Redline Agent has its own copy of the above information, stored in RLAGENT.CONF. If the two do not match, the Redline Agent is unable to contact the Control Center and generates an error on the Redline Agent console.
- These values are also used for license enforcement by the Redline Control Center. The Control Center may determine a license is invalid or the evaluation license has expired. In this case, the Redline Agent will not be able to contact the Control Center any longer, because the Control Center shuts down the listening port for the Redline Agents. An error is generated on the Redline Agent console.

Update Redline

The Update process is exactly the same as the installation process. All installers detect if a previous version is there and make sure that all customer settings aren't touched.

After an update Redline should work immediately as it has done before. No NCF files on NetWare, thresholds, recommendations, all database records, Redline Agent and Redline Control Center configuration files are overwritten. Sometimes new values will be added.

Uninstall Redline

Redline's ability to drill deep into even the most complex GroupWise message system offers network administrators, and business owners an ability to understand the inner workings of their e-mail system. We sincerely hope that Redline has provided powerful functionality that you cannot find elsewhere.

If you are uninstalling Redline, and have questions about your trial, please feel free to contact us at <u>info@gwava.com</u>.

NetWare

- > Stop the Redline Agent and Control Center
- > Delete the SYS:\opt\Beginfinite\redline tree
- Remove modifications from sys:system\autoexec.ncf

Note: The Windows-based installer can do this automatically. Run SETUP and click through the prompts to select **Uninstall** at the end.

Windows

- Stop RLAGENT
- > Start the Windows Setup.exe and click through the prompts. On the last page select Uninstall.

Linux

Automatically: In a graphical Linux environment, use the YaST command. From the command line do the following:

- Login as root or use su to switch to root. gwava@linux-o3in:/root> su Password:
- uninstall the rpm package with the rpm command rpm -e redline-3.0.0-1.i586.rpm

Manually:

- Stop both Redline programs: To stop RLAGENT, type /etc/init.d/rlagent stop at the command line and to stop the Control Center,, type /etc/init.d/rlcenter stop at the command line
- > Delete the /opt/Beginfinite/redline tree
- Remove /etc/init.d/rlcenter and /etc/init.d/rlagent
- Remove /lib/libredline.so.3.5.0

Configure Redline Agent; Monitor GroupWise

Every Agent must have a unique name to successfully register to the Control Center. If, for some reason, two agents have the same name, the one that registers second is rejected by the Control Center. In that case you must either overwrite the name with another name, or add a prefix or suffix. Having a unique name is important because several Reports, analysis, graphs etc. are based on the agent name.

The GUID is used by Redline to make sure an agent once registered with a unique name will always be assigned to the same name. This can be necessary if the Redline Agent is reinstalled. The GUID's are managed by Redline, and you shouldn't touch or add any GUID anywhere.

Advansys Archive2Go

Archive2Go from Advansys is one of the Applications which does not require a Redline Agent. It talks directly to the Control Center. Redline is used as the auditing tool for Archive2Go in order to meet requirements enforced by laws or other regulations.

Choose an option for auditing the archiving process in the auditing dialog.

There are two ways where Redline is involved in the auditing process. One is where auditing to Redline is enforced, and Archive2Go doesn't work if Redline is not available, and another option where auditing can fall back to a text file as soon as Redline is not available.

Auditing Specify audit settings. Choose an audit target Use a text file for auditing. Use Redime for auditing. If Redime is/becomes unavailable, audit to a text file. Use Redime for auditing. If Redime is/becomes unavailable, stop archiving. Text File Settings Audit Folder: C: Varchives/Audits Maximum Size (KB): Immum free disk space (MB): Immum free disk space (MB): Server IP Address: Server Port: Server Port: Server Timeout (milliseconds): IO0 Server Timeout (milliseconds): Registration Name: Acme Corp Registration Code: AHGA732H8364JJJUP3	@ Advansys Archive To Go - bs	mith	
Choose an audit target Use a text file for auditing. Use Redline for auditing. If Redline is/becomes unavailable, audit to a text file. Use Redline for auditing. If Redline is/becomes unavailable, stop archiving. Text File Settings Audit Folder: Maximum Size (KB): Iminimum free disk space (MB): Iminimum free disk space (MB): Iminimum free disk space (MB): Server IP Address: Server Port: Server Port: Server Prot: Acme Corp Registration Name: Acme Corp Registration Code: AHGA732H8364UJUP3	Auditing Specify audit settings.		No.
Use a text file for auditing. Use Redline for auditing. If Redline is/becomes unavailable, audit to a text file. Use Redline for auditing. If Redline is/becomes unavailable, stop archiving. Text File Settings Audit Folder: Audit Folder: Maximum Size (KB): Hedline Settings Redline Settings Redline Settings Server IP Address: 60.18.200.1 Server IP Address: 60.18.200.1 The file 'Icenter.cont' contains these settings. This file usually resides on the Redline server in the folder. Server Port: 4500 4 Server Timeout (milliseconds): 100 4 Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3 Load from file	Choose an audit target		
Use Redline for auditing. If Redline is/becomes unavailable, audit to a text file. Use Redline for auditing. If Redline is/becomes unavailable, stop archiving. Text File Settings Audit Folder: Audit Folder: Maximum Size (KB): Audit Folder: Redline Settings Server IP Address: 60.18.200.1 The file 'licenter.con' contains these settings. This file usually resides on the Redline server in the folder. Server Port: 4800 Server Timeout (milliseconds): 100 Registration Name: Acme Corp Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3	Use a text file for auditing.		
Use Redline for auditing. If Redline is/becomes unavailable, stop archiving. Text File Settings Audit Folder: C-Varchives/Vaudits Maximum Size (KB): P def Minimum free disk space (MB): P def Server IP Address: Server IP Address: Server Port: G0.18.200.1 The file 'Icenter.con' contains these settings. This file usually resides on the Redline server in the folder: Server Port: G0.18.200.1 Server Port: G0.18.200.1 Server Timeout (milliseconds): Too Registration Name: Acme Corp Registration Code: AHGA732H8364UJUP3 Load from file	C Use Redline for auditing. If Red	line is/becomes unavailable,	audit to a text file.
Text File Settings Audit Folder: C: Varchives/Audits Maximum Size (KB): Image: Comparison of the settings Redline Settings Server IP Address: 60.18.200.1 Server IP Address: 60.18.200.1 Server Port: 4800 Server Timeout (milliseconds): 100 Registration Name: Acme Corp Registration Code: AHGA732H8364UIUP3	Use Redline for auditing. If Red	lline is/becomes unavailable,	stop archiving.
Audit Folder: C: Varchives/Audits Maximum Size (KB):	Text File Settings		
Maximum Size (KB): Image: Constraint State Minimum free disk space (MB): Image: Constraint State Redline Settings Image: Constraint State Server IP Address: 60.18.200.1 Server IP Address: 60.18.200.1 Server IP Address: 60.18.200.1 Server Port: 4800 Server Timeout (milliseconds): Image: Constraint State Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3	Audit Folder:	C:\Archives\Audits	
Minimum free disk space (MB):	Maximum Size (KB):	0 +	
Redline Settings 60.18.200.1 The file 'Icenter.con' contains these settings. This file usually resides on the Redline server in the folder: Server Port: 4800	Minimum free disk space (MB):		
Server IP Address: 60.18.200.1 Server Port: 4800 Server Port: 100 Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3	Redline Settings		
Server Port: 4800 Server Timeout (milliseconds): 100 Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3	Server IP Address:	60.18.200.1	The file 'ricenter.conf' contains these settings. This file
Server Timeout (milliseconds): 100	Server Port:	4800 🕂	usually resides on the regime server in the folder.
Registration Name: Acme Corp Registration Code: AHGA732HB364UJUP3	Server Timeout (milliseconds):	100 🕂	Sys: \opt\beginninke\realine\conr
Registration Code: AHGA732HB364UJUP3 Load from file	Registration Name:	Acme Corp	
	Registration Code:	AHGA732HB364IJIUP3	Load from file
Help About Cancel <back next=""></back>	Help About		Cancel < Back Next >

It is important to specify the Control Center IP Address, Port, Registration Name and Registration Code. You can find this information in the Redline Control Center Configuration/License tab.

GroupWise API Gateway

The GroupWise API Gateway was introduced in GroupWise 4.1 and has not changed much. Therefore there is no HTTP server to configure; nor is there SNMP support provided. All that is available and required is that you configure the Logging to be on and be verbose, and note the Log Files path on your <u>Appendix</u> work sheet. By default the configuration file for the API Gateway is named ngwapi.prm. It is recommended to set the log days to 7 and the maximum log file size to 1000Kb.

- > /loglevel Verbose
- > /logdays -7

/logmax - 1000 Redline will look for new log file information every 2 minutes. You only need to specify the log file path in Redline. The fields: http username, password, IP address, and port are ignored. The logging files path may be in NetWare, UNC, or POSIX format. We recommend that NetWare or UNC path format be used. For notes

Current File "SYS:\GRPWISE\DOULI\WPGATE\API\NGWAPI.PRM" ;/help ; LOG FILE SWITCHES ; The following switches override default logging values set in Admin ; Override the configured logging level. ; The levels are: Diag, Verbose, Normal, and Off /loglevel-Verbose ; Path to the gateway's log file directory. ;/log-[Full path to log file directory] ; Number of days that log files are allowed to age. /logdays-7 ; Maximum K bytes that log files are allowed to use. ; The default is set in Admin /logmax-1000

about using POSIX format (/path1/path2/path3), see Appendix

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the API Gateway. Specify the Path to the API Gateway 000.PRC folder.

Redline ^{3.5}										📲 Logout 🎯 J	Admin Guide	Install Guide
	Dashboard	Alerts	Sys	tem View	Reports	M	essage Trac	king	Configure	Favorites	A	uto Refresh
SYSTEM VIEW OW System Dest Redline Agent Redline Database	Summary State State Redline Agent Informate Description Global Unique ID Monitored	Agent: RLAg	gs Alerts ent-ricenterx	Reports 0 32, Version: 3.5.	Braphs Configu 0 (1002), Platform: Lit	Manage nux 2.6.27.19-5-	pae, Uptime: Oc	l Oh Om				Value 2
	Agents:	Type HOST	Description Host	Unique II 3	D Agent N	ame	Status enabled	HTTP IP Addres	5	HTTP IP Port	SSL -	Action
	Add or Edit Agent Type: Status: Agent Path: Agent Name: Agent Name Sufficient	c Konitored	d Agent GW API Gate	way	v							
			I OK)								

After 2-3 minutes, a message should appear on the Redline Agent that the API agent has been registered to the Control Center and shows up in the Control Center.

GroupWise Async Gateway

The Async Gateway provides a http interface similar to most other GroupWise Agents. You need to enable and configure this interface via ConsoleOne. Specify a username and password for the Async Gateway in the GroupWise/Optional Gateway Settings tab.

Optional you can configure the http interface by editing the agent configuration file, which is async.cfg by default and located in the same folder as the ASYNC binary file. The following switches need to be added.

- /http Enable HTTP Interface
- /httpport –port number HTTP port to listen on (There is no default port, we suggest 9999)
- /httpuser -[username] Specify the Username for the HTTP interface

orts Domain Connections GroupWise Remote Profiles	: Queue Maintenance	GroupWise ▼ Optional Gateway Settings	NDS Right
Directory Sync/Exchange:	None		¥
Accounting:	Yes		*
Convert Status to Messages:	No		¥
Outbound Status Level:	Open		*
Enable Recovery:	Yes		*
Retry Count:	10 🗘 (1	1-99)	
Retry Interval:	60 🖨 s	econds	
Failed Recovery Walt:	3600 🖨 s	econds	
Network Reattach Command:			
Correlation Enabled:	Yes		*
Correlation Age:	14 🚔 d	ays	
HTTP Settings			
HTTP User Name:			
HTTP Password: Set Pa	ssword		
		-1 (1

- > **/httppassword -[password]** specify the Password for the HTTP interface
- > /loglevel -verbose turns on verbose logging

Save the file and restart the agent by unloading and reloading.

Test by opening a web browser by typing <u>http://ipaddress:httpPort</u>. For example, if the agent were running on a server with an IP address of 192.168.2.3, and an HTTP port of 9999, *http://192.168.2.3:9999*. You should be prompted for the username and password just assigned

> Do not proceed until this is working

If you want to have accounting information for reports and message tracking, enable "Accounting" and specify a gateway accountant. The accounting log files will be sent to this user and can be imported into Redline via SOAP automatically.

	GroupWise Remote Profiles	Gueue Maintenance	GroupWise Gateway Admini	strators	NDS Rights (
			[Add	Delete
Administrator Role				Add	Delete
Administrator Role			[Add	Delete
Administrator Role			[Add	Delete
Administrator Role]	Add	Delete
Administrator Role Operator Accountant Postmaster Foreign Operator]	Add	Delete

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Async Gateway. Specify the IP Address, Port, Username and Password.

1 Sem											
The	Redline ^{3.5}								📲 Logout 🥝 A	lmin Guide	Install Guide
		Dashboard	Aler	ts Sys	tem View	Reports	Message Trac	king Cont	īgure Favorites	Αι	ıto Refresh
SYST	EM VIEW	Summary Stat	us Sett	ings Alerts	Reports Graphs	Configure M	anage				
F 🔊	GW System	🔘 💰 Redline	Agent: RL	Agent-ricenterx	32, Version: 3.5.0 (100	2), Platform: Linux 2.6.2	7.19-5-pae, Uptime: 00	d 0h 0m			🥥 Help
•	Host	Agent Informa	tion								_
•	Redline Agent	Description									Value
🛨 🍵	Redline Database	Global Unique ID	(GUID)								2
		Agents:	Type	Description	Unique ID	Acent Name	Status	HTTP IP Address	UTTP IP Port	991	Action
		-	HOST	Host	3	-	enabled	-	-	-	2
		Add or Ed	it Monito	red Agent							_
		Agent Type:		GW Async Ga	ateway 🔻	•					
		Status:		Enabled							
		HTTP Address:									
		HTTP Port:									
		HTTP Username:		admin							
		HTTP Password:		•••••							
		Use SSL:		Ves							
		Agent Name:									
		A gent Name		_							
		Agent Name Suff	DC								
				Ø OK							

After 2-3 minutes, a message should appear on the Redline Agent that the Async Gateway has been registered to the Control Center and shows up in the Control Center.

GroupWise Document Viewer Agent (GroupWise 7.0+ only)

The Document Viewer Agent (GWDVA) is used to convert attachments for viewing in the WebAccess client. Redline3.0 and above support monitoring this agent. There is no ConsoleOne interface for this agent. Instead, open the GWDVA configuration file in a text editor. This file is normally named gwdva.dva and is located in the same directory that the GroupWise WebAccess Internet Agent (GWINTER) is installed.

On NetWare the part in the configuration file looks like this:

NetWare Text Editor	8.00.	1	letWare	Loadable	Module
C	urrent File "S	YS:SYSTEMNGWDVA.D	JA"		
Default: Off					
/http					
: HTTP monitoring port Default port: 7439					
/httpPort-7439					
: User name for authen	ticating reque	ster of HTTP info	mation		
/httpuser-admin					
: User password for au	thenticating 1	equester of HTTP	informat	ion	
/httppw-password_					

Add the following switches manually:

- > /http Enable HTTP Interface
- /httpport -7439 HTTP port to listen on (7439 recommended)
- /httpuser -[username] Specify the Username for the HTTP interface
- /httppw -[password] specify the Password for the HTTP interface
- > /loglevel verbose turns on verbose logging

Save the file and restart the DVA by unloading and reloading the WebAccess Agent. Test by opening a web browser by typing <u>http://ipaddress:httpPort</u>. For example if the GWDVA agent were running on a server with an IP address of 192.168.2.3, and an HTTP port of 7439, http://192.168.2.3:7439

You should be prompted for the username and password you just assigned

> Do not proceed until this is working

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Document Viewer Agent. Specify the IP Address, Port, Username and Password.

Yes	Redline ^{3.5}								📲 Logout 🥝 Ad	lmin Guide	Install Guide
		Dashboard	Ale	rts Syste	em View	Reports	Message Trac	king Config	ure Favorites	A	uto Refresh
	EM VIEW GW System Host Redline Agent Redline Database	Summary Stat Summary Redline Agent Informat Besoription Global Unique ID Monitorec Agents:	Ale us Set Agent: RL (GUID) I Agents Type HOST	Agent-ricenterx3	Reports Graphs 2, Venion: 3.5.0 (1002 Unique ID 3	Agent Name	NGSSAGE FIELD	I On Om HTTP IP Address	HTTP IP Port	SSL -	Action
		Agent Type:		GW DocView	Agent -						
		Status:		Enabled							
		HTTP Address:									
		HTTP Port:									
		HTTP Username:		admin							
		HTTP Password:		•••••							
		Use SSL:		Yes							
		Agent Name:									
		Agent Name Suff	ix:								
				🤌 ОК							

After 2-3 minutes, a message should appear on the Redline Agent that the Document Viewer Agent has been registered to the Control Center and shows up in the Control Center.

GroupWise Message Transfer Agent

Begin by writing down the IP address for this component on the installation work sheet.

Open the MTA object in ConsoleOne. Select the **GroupWise/Network Address** tab.

Ensure that SSL is disabled and that the HTTP port is assigned (the default is 7180). Note this port on the installation worksheet.

Properties of MTA					×
GroupWise VIDS Rights VIDS Ri	Other Rights to Files and	l Folders			1
TCP/IP Address: IPX/SPX Address:	192.168.2.3				
Port Message Transfer: 7100 🖈	SSL Disabled ¥ Disabled ¥				
Page Options		OK	Cancel	Apply	Help

Next, go to the **GroupWise/Agent Settings** tab. A screen similar to the example will be presented:

Assign a HTTP username and password. This should not be the same as a valid eDirectory account. Include this information in the <u>Appendix</u> work sheet as well.

The MTA already defaults to having SNMP on (unless /nosnmp is in the startup file), but please assign a community name here (other than public or blank) to reduce security risks.

Click **OK** to save your settings.

roperties of MTA		x
GroupWise ▼ NDS Rights ▼ Other Agent Settings	Rights to Files and Folders	1
Scan Cycle:	15 seconds	
Scan High:	5 🚔 seconds	
Attach Retry:	600 📥 seconds	
🔽 Enable Automatic Database Recove	ry	
🔲 Use 2nd High Priority Scanner		
🔲 Use 2nd Mail Priority Scanner		
SNMP Community "Get" String:		
HTTP Settings		
HTTP User Name:	admin	
HTTP Password:	Set Password	
		_
Page Options	OK Cancel Apply He	lp

Testing

Wait one minute for the GroupWise configuration to propagate. Test your configuration with a web browser by typing: <u>http://ipaddress:httpPort</u>

For example: if the MTA were running on a server with an IP address of 192.168.2.3, and an HTTP port of 7180, <u>http://192.168.2.3:7180</u>

You should be prompted for the username and password just assigned. If this does not occur, recheck the settings in ConsoleOne, and open the agent's startup file to verify that no startup switches have overridden this configuration. Also, try restarting the agent.

> Do not proceed until this is working

Return to ConsoleOne and reopen the agent. Go to the **GroupWise/Log Settings** tab to verify logging is on and set to verbose.

Properties of MTA	×
Properties of MTA GroupWise → NDS Rights → Other R Message Log Settings Message Log File Path: Correlate Delivery Status Reports Collect Delivery Status Reports Collect Other Status Reports Track Administrative Messages Delete Reports After:	grits to Files and Folders
Page Options	OK Cancel Apply Help

If you want to use Message Tracking you need to enable Message Logging for every MTA. This is disabled by default.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the MTA Agent. Specify the IP Address, Port, Username and Password.

	Dashboard	Alerts	System View	Reports	Message	Tracking	Configure	Favorites	Au	to Refre
	Summary Status	Set	ttings Alerts Reports	Graphs Cor	figure Manag	e				
W System	S 💰 99.27 X	GW I	Message Transfer Agent: RLAgen	t-RETAIN2, Versi	on: 3.5.0 (1003), Pla	tform: Linux 2	.6.27.19-5-pae, Uptime	0d 10h 38m		Help
W Internet Agent	Agent Informatio	n								
W Message Transfer Agent	Description									v
W Post Office Agent	Global Unique ID (G	UID)								
WAVA 4.x/5	Monitored A	gents								
ost	Agents:	Туре	Description	Unique ID	Agent Name	Status	HTTP IP Address	HTTP IP Port	SSL	Action
edline Agent		GW4V4	GWAVA 4.x/5	11	gwava 5	enabled	192.168.1.104	49282	disabled	
edline Database		GWIA	Gw Internet Agent	6	-	enabled	192.108.1.104	9850	disabled	
lyGroup		мта	GW Message Transfer Agent	15		enabled	-	- 7180	- disabled	
		POA	GW Post Office Agent	13		enabled	192 168 1 104	7181	disabled	72 2
	Agent Type:		GW Message Transfer A	Agent -						
	Status:		Enabled							
	HTTP Address:		192.168.1.104							
	HTTP Port:		7180							
	HTTP Username:		redline							
	HTTP Password:		•••••							
	Use SSL:		Yes							
	Agent Name:									
	Agent Name.									

After 2-3 minutes, a message should appear on the Redline Agent that the MTA agent has been registered to the Control Center and the GroupWise Domain shows up in the Control Center.
GroupWise Exchange Gateway

The Exchange Gateway provides an http interface similar to most other GroupWise Agents. You need to enable and configure this interface via ConsoleOne. Specify a username and password for the Exchange Gateway in the GroupWise/Optional Gateway Settings tab and specify the http port on the Network Address tab.

Optional you can configure the http interface by editing the agent configuration file, which is exchange.cfg by default and located in the same folder as the Exchange Gateway binary file. The following switches need to be added.

ther Rights to Files and Folders	
None	*
Yes	٣
No	¥
Open	*
Yes	-
10 🚔 (1-99)	
60 seconds	
3600 🖨 seconds	
Yes	*
14 🚔 days	
Pot Password	
	ther Rights to Files and Folders

- > /http Enable HTTP Interface
- /httpport -portnumber HTTP port to listen on (There is no default port, we suggest 9997)
- > **/httpuser -[username]** Specify the Username for the HTTP interface
- /httppassword -[password] specify the Password for the HTTP interface
- /loglevel -verbose turns on verbose logging

Save the file and restart the agent by unloading and reloading.

operties of Exchange						2
GroupWise - NE Network Address)SRights ╺ │ Other	Rights to Files and Fold	iers			
TCP/IP Address:						
PX/SPX Address:	TCD4D Address	1				
Denu Exclusively to	Port					
Message Transfer:	0 🖨					
HTTP:	0 🖨					
Page Options			ок	Cancel	Apply	Help

Test by opening a web browser by typing <u>http://ipaddress:httpPort</u>. For example, if the agent were running on a server with an IP address of 192.168.2.3, and an HTTP port of 9999, *http://192.168.2.3:9999*. You should be prompted for the username and password just assigned

> Do not proceed until this is working

If you want to have accounting information for reports and message tracking, enable "Accounting" and specify a gateway accountant. The accounting log files will be sent to this user and can be imported into Redline via SOAP automatically.



From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Exchange Gateway. Specify the IP Address, Port, Username and Password.

Redline ^{3.5}									📲 Logout 🎯 A	dmin Guide	Install Guide
	Dashboard	Ale	rts Sy:	stem View	Reports	Message Track	ing	Configure	Favorites	A	uto Refresh
SYSTEM VIEW (*) (*) GW System (*) (*) Redline Agent (*) (*) Redline Agent (*) (*) Redline Database	Summary Sta C & Redlin Agent Informa Description Global Unique ID Pursitiones	tus Sett e Agent: RL tion	tings Alerts Agent-ricenter:	Reports Graph: x32, Version: 3.5.0 (100	s Configure N 2), Platform: Linux 2.6.2	anage 7.19-5-pse, Uptime: 0d I	Oh Om				Help Value 2
	Agents: Agents: Agent Type: Status: HTTP Address: HTTP Port: HTTP Password: Use SSL: Agent Name: Agent Name: Age	Type HOST	Pesaription Host GW Exchang Enabled admin Yes OK	Unique ID 3	Agent Name	Status enabled	HTTP IP Address		HTTP IP Pot	SSL	Action

After 2-3 minutes, a message should appear on the Redline Agent that the Exchange Gateway has been registered to the Control Center and shows up in the Control Center.

GroupWise Internet Agent (GWIA)

Begin by writing down the IP address for this component. Record this information on your worksheet. Open the GWIA object in ConsoleOne, and go to the **GroupWise/Network Address** tab.

Ensure SSL is disabled and that the HTTP port is assigned (the default is 9850). Note this port for the work sheet as well.



operties of C	IWIA					
POP3/MAP4	Server Directories	Access Control	- Reattach	Post Office Links	GroupWise	গ ন
Directory Syr	nc/Exchange:		None			¥
Accounting:			Yes			*
Convert State	us to Messages:		No			*
Outbound Str	atus Level:		Undeliver	red		-
Enable Reco	very:		Yes			Ŧ
Retry Count:				10 🛓 (1-99)		
Retry Interva	k.			5 🚔 second	s	
Failed Recov	ery Wait:			3600 🚔 second	s	
Network Rea	ttach Command:					
Correlation E	nabledt		Yes			¥
Correlation A	ge:			14 🚔 days		
HTTP Settin	igs					
HTTP Use	r Name:	admin				
HTTP Pas	sword	Set	Password			
	1				1 1 1	
Page Option	s			OK	Cancel Apply	Help

Next, select the **GroupWise/Optional Gateway** Settings tab.

Assign a HTTP username and password. This should not be the same as a valid eDirectory account. Include this information in the work sheet as well.

Select the **GroupWise Identification** tab. SNMP is automatically enabled for the GWIA, but you should assign a community name here (other than public or blank, which present security risks). Click **OK** to save your settings. Wait one minute for the GroupWise configuration to propagate. Test in a browser by typing <u>http://ipaddress:httpPort</u>

AP	POP3/MAP4	Server Directories	Access Control - Reattach Post Office Links GroupWise - NDS Ri(-
			Identification
omai	n.Gateway:		MJBPRI.GVMA
escri	iption:		
ubdir	ectory:		
ime Z	Ione:		(GMT-08:00) Pacific Time (US & Canada); Tijuana 💌
atabi	ase Version:		6
latfor	m:		Windows 👻
atev	лау Туре:		internet Agent
atevi	vay Alias Type:		
oreig	n ID:		mibtest.com
NMP	Community "Ge	t" String:	

For example if the GWIA were running on a server with an IP address of 192.168.2.3, and an HTTP port of 9850, <u>http://192.168.2.3:9850</u>

You should be prompted for the username and password just assigned. If this does not occur, recheck the

settings in ConsoleOne, and open the agent's startup file to verify that no startup switches have overridden this configuration. Also, try restarting the agent.

> Do not proceed until this is working

Return to ConsoleOne and reopen the agent. Go to the **GroupWise/Log Settings** tab to verify logging is on and set to verbose.

Properties of GWIA		x
LDAP POP3/IMAP4 Server Directories	Access Control • Reattach Post Office Links Control • NDS Rig	◄►
Log File Path:		
Logging Level	Verbose	-
Max Log File Age:	7 📥 days	
Max Log Disk Space:	65536 🚔 KBytes	
Page Options	OK Cancel Apply He	qle

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Internet Agent. Specify the IP Address, Port, Username and Password. Optionally, you can enable a connection test, which will connect to the SMTP port every 2 minutes and tests the gateway for availability and if SSL over SMTP is supported or not.

Redline ^{3.5}									📲 Logout 🎯 Ac	lmin Guide	Install Guide
	Dashboard	Ale	erts Syst	em View	Reports	Message Trac	king	Configure	Favorites	A	ıto Refresh
SYSTEM VIEW	Summary Sta	tus Set	ttings Alerts	Reports Graphs	Configure Ma	inage					
🕒 🕞 GW System	🔘 💰 🛛 Redlin	e Agent: RL	Agent-rlcenterx	2, Version: 3.5.0 (1002)	, Platform: Linux 2.6.27	.19-5-pae, Uptime: 00	i 0h 0m				Help
🕂 📑 Host	Agent Informa	ation									
🛨 🍈 Redline Agent	Description										Value
🛨 🍵 Redline Database	Global Unique II										2
	Agents:	Type	Description	Unique ID	Agent Name	Status	HTTP IP Address		HTTP IP Port	SSI	Action
		HOST	Host	3	-	enabled	-		-	-	2 2
	Add or E Agent Type: Status: HTTP Address: HTTP Port: HTTP Username HTTP Password: Use SSL:	dit Monito	GW Internet A GW Internet A Enabled admin	gent -							
	Use SSL:		Yes								
	Agent Name:		_								
	Agent Name Sut	ffix:									
	😡 Connecti	on Test									
	The GWIA will be	e tested base	d on a SMTP connect	ion, default on port 25, a	and SSL encryption sup	oort will be checked.					
	Address:										
	Port:										
	Username:										
	Password:										
			🤌 ОК								

After 2-3 minutes, a message should appear on the Redline Agent that the Internet Agent has been registered to the Control Center and shows up in the Control Center.

GroupWise Messenger Agent

Begin by including the IP address for this component on the work sheet. Open the Messaging Agent object in ConsoleOne, and go to the Agent/Web Console tab.

Ensure SSL is disabled and that the HTTP port is assigned (the default is 8311). Note this port on the work sheet as well.

Assign a HTTP username and password. This should not be the same as a valid eDirectory account. Include this information in the work sheet as well.

Next, select the **Agent/General** tab. Ensure SNMP is enabled.

Click **OK** to save your settings. Wait one minute for the GroupWise configuration to propagate and then test by opening a web browser by typing <u>http://ipaddress:httpPort</u>

For example if the Messenger agent were running on a server with an IP address of 192.168.2.3, and an HTTP port of 8311, *http://192.168.2.3:8311*

You should be prompted for the username and password just assigned. If you are not, recheck your settings in ConsoleOne, and open the agent's startup file to verify that no startup switches override this configuration. Also, try restarting the agent.

> Do not proceed until this is working

 Properties of MessagingAgent
 X

 Agent

 NDS Rights

 Other
 Rights to Files and Folders

 HTTP Port:
 71 90

 HTTP Authentication

 Username:
 admin

 Password:
 get Password

 Enable SSL for Web Console

 Page Options...

 OK
 Cancel

 Apply

 Help

Properties of Messaging	JAgent				×
Agent → NDS Rights General	Other Rights to Files and Folders				
Enable Messeng	er Services				
-Path Settings					
Work Path:	NW51\SYS\NovelINMtemp				
Restore Default S	iettings				
Page Options		OK	Cancel	Apply	Help

Properties of MessagingAgent				×
Agent NDS Rights Other Rights to Files and Folders Log Settings				
Log Level: Verbose				
🔽 Enable disk logging				
Log Files Path: \\\NW51\SYS\Novell\NM\ma\logs	•			
Log M <u>a</u> ximum Age (days): 14 🛨				
Log Maximum <u>S</u> ize (MB): 128				
Page Options	0K	Cancel	Apply	Help

Return to ConsoleOne and reopen the agent.

Go to the Agent/Log Settings tab to verify logging to disk is on and set to verbose.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Messenger Agent. Specify the IP Address, Port, Username and Password.

Redline 3.5								📲 Logout 🙆 Adm	in Guide	Install Guide
r Realine	Dashboard	Alerts	System	View R	Reports M	essage Tracki	ng Config	ure Favorites	A	uto Refresh
SYSTEM VIEW	Summary Stat	us Set X Redli	tings Alerts	Reports ent-ricenterx3	Graphs Configu 32, Version: 3.5.0 (1003	Manage	x 2.6.27.19-5-pae, Uptim	ie: Od 3h 35m) Help
🛨 🍵 Redline Database	Description Global Unique ID	(GUID)								Value 2
	Monitored	Agents								
	Agents: Agent Type: Status: HTTP Address: HTTP Port: HTTP Port: HTTP Password: Use SSL: Agent Name: Agent Suffi	rype HOST it Monito	Pescription Host	Unique ID 3	Agent Name	Status enabled	HTTP IP Address	HTTP IP Port	SSL .	Action
			🤌 ОК							

After 2-3 minutes, a message should appear on the Redline Agent that the Messenger Agent has been registered to the Control Center and shows up in the Control Center.

GroupWise Messenger Archive Agent

The Messenger Archiving Agent is configured almost identically – Open the Archiving Agent object in Console One, and go to the Agent/Web Console tab.

Assign a HTTP username and password. This should not be the same as a valid eDirectory account. Write down this information in the work sheet as well.

Ensure SSL is disabled and that the HTTP port is assigned (the default is 8313). Note this port in the work sheet.

Properties of MessagingAgent Agent NDS Rights Other Rights to Files and Folders Web Console	1			×
HTTP Port: 7190				
HTTP Authentication				
Username: admin				
Password: Set Password				
Page Options	OK	Cancel	Apply	Help

Next, select the **Agent/General** tab. Ensure SNMP is enabled.

Click **OK** to save your settings. Wait one minute for the GroupWise configuration to propagate.

Test it in a web browser by typing http://ipaddress:httpPort

For example if the Archiving agent were running on a server with an IP address of 192.168.2.3 and an HTTP port of 8313: http://192.168.2.3:8313

gent → NDS Right eneral	Is ▼ Other Rights to Files and Folders
✓ Enable Messer ✓ Enable SNMP	iger Services
Path Settings	
Restore Defaul	t Settings

You should be prompted for the username and password just assigned. If you are not, recheck your settings in ConsoleOne, and open the agent's startup file to verify that no startup switches override this configuration. Also, try restarting the agent.

> Do not proceed until this is working

Return to ConsoleOne and reopen each of the agents. Go to the **Agent/Log Settings** tab to verify logging to disk is on and set to verbose.

operties of MessagingAgent	×
Agent VIDS Rights VI Other Rights to Files and Folders	
Log Level: Verbose	
Log Maximum Size (MB): 129	
	Liele
Page options	Help

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Messenger Archive Agent. Specify the IP Address, Port, Username and Password.

X	Redline ^{3.5}										-3	Logout 💿 Adm	in Guide	Install Guide
		Dashboard	Ale	erts	System V	'iew	Reports	Mes	sage Traci	king	Configure	Favorites	A	uto Refresh
SYS	TEM VIEW	Summary	Status	Settings	Alerts	Reports	Graphs	Configure	Manag	e				
•	GW System	0 💰 🚺	.00 %	Redline Age	ent: RLAge	nt-ricenter	x32, Version:	3.5.0 (1003), F	Platform: Lin	ux 2.6.27.19-5	pae, Uptime: 0d	3h 35m) Help
Đ 🍕	Redline Agent	Agent Infor	mation											
•	Redline Database	Description Global Unique	e ID (GUID))										Value 2
		🀉 Monito	ored Age	ents										
		Agents: Agents: Agent Type: Status: HTTP Address HTTP Port: HTTP Port: HTTP Port: Agent Name: Agent Name: Agent Name:	Typ Hos	Desce ST Host	Agent W Messen Enabled Imin Yes	Unique ID 3	Agent I	Name	Status enabled	HTTP IP Ad	dress	HTTP IP Port	SSL -	Action

After 2-3 minutes, a message should appear on the Redline Agent that the Messenger Archive Agent has been registered to the Control Center and shows up in the Control Center.

GroupWise Mobile Server

Since Version 7.0.1 Novell ships the GroupWise Mobile Server, which is used to connect mobile devices like PDA's, phones etc to GroupWise.

Redline ships with configuration files for GroupWise Mobile Server 2.x/3.x, and the files must be copied into the GroupWise Mobile Server.

If you are running **GW Mobile Server 2**, copy the file .../redline/conf/GWMobileServer/**redline.jsp** and

.../redline/conf/GWMobileServer/**rlaccounts.jsp** to your Mobile Server Program Files/Intellisync Mobile Suite/admin/diag folder.

On Linux, the files go in /opt/ims/www/admin/diag.



For Redline to access this file it is necessary to create a new administrator account. Start the Intellisync Admin Console, right click on WebAdmin and select Launch WebAdmin.



In WebAdmin, select Administrators and create a new Administrator which will be used in Redline.

Novell GroupWise powered by Nokia Intellisync	Mobile Server Suite Co	onsole, you are logged in as admin		Nove
Expand all Collapse all	Management > Administrators			Logout Help
Dashboard	Administrators			
Users				
Devices	Done New Delete	Export Print		
Groups				
Reports	All Columns	Search		
Logs	2 items			
Lines Onthings	Administrator Name	Description	Status	Created
User Settings		Initial administrator	Active	01/03/2011 05:00:00 PM
System Settings	redline	For Redline Integration	Active	01/04/2011 02:46:36 PM
Management				
Servers				
Administrators				
Documentation				
© Nokia 2007				

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Mobile Server. Specify the IP Address, Port, Username and Password. Make sure that you select GW Mobile Server 1 or 2x/3x, depending on what Version you are running.

Podling 3.5								📲 Logout 🙆 Adm	in Cuido	🔊 Inotall Guida
Redime			1					- Logout C Aum	in Guiue	Install Guide
	Dashboard	Alerts	System	/iew R	eports M	essage Track	ting Config	ure Favorites	A	uto Refresh
SYSTEM VIEW	Summary Stat	us Set	ttings Alerts	Reports	Graphs Configu	re Manage	e			
🕀 🌇 GW System	0 😻 100.00	Kedl	ine Agent: RLAge	ent-ricenterx3	2, Version: 3.5.0 (1003), Platform: Linu	ux 2.6.27.19-5-pae, Uptim	e: 0d 3h 35m		Help
🛨 🌰 Redline Agent	Agent Informat	ion								
🛨 🍵 Redline Database	Description Global Unique ID	(GUID)								Value 2
	🀉 Monitored	Agents								
	Agents: Agent Type: Status: HTTP Address: HTTP Port: HTTP Port: HTTP Password: Use SSL: Agent Name: Agent Name Suffi	Type HOST it Monito	Description Host	Unique ID 3 Server 2.x/3.x	Agent Name 	Status enabled	HTTP IP Address .	HTTP IP Port	SSL .	Action

After 2-3 minutes, a message should appear on the Redline Agent that the GW Mobile Server has been registered to the Control Center and shows up in the Control Center.

GroupWise Notes Gateway

The Notes Gateway provides a http interface similar to most other GroupWise Agents. You need to enable and configure this interface via ConsoleOne. Specify a username and password for the Notes Gateway in the GroupWise/Optional Gateway Settings tab.

Optional you can configure the http interface by editing the agent configuration file, which is notes.cfg by default and located in the same folder as the Notes Gateway binary file. The following switches need to be added.

- > **/http** Enable HTTP Interface
- /httpport-portnumber HTTP port to listen on (There is no default port, we suggest 7175)
- /httpuser-[username] Specify the Username for the HTTP interface

Required Parameters	GroupWise Optional Gateway Settin	NDS Rights Other Rights to Files and Folders gs	
Directory Sync/Excl	hange:	Nane	-
Accounting:		Yes	•
Conver! Status to N	dessages:	Na	•
Outbound Status L	.evel:	Open	•
Enable Recovery:		Yes	-
Retry Count:		10 🔷 (1-99)	
Retry Interval:		60 🗧 seconds	
Failed Recovery W	'ait:	3600 🖨 seconds	
Network Reattach	Command:		
Correlation Enable	ed:	Yes	•
Correlation Age:		14 🖨 days	
HTTP Settings			
HTTP User Nar	ne:		
HTTP Passwor	d	Set Password	
	1		1

- > **/httppassword-[password]** specify the Password for the HTTP interface
- > /loglevel -verbose turns on verbose logging

Save the file and restart the agent by unloading and reloading.

GroupWise NDS Rights Other Network Address	Rights to Files a	nd Folders		
TCP/IP Address:				/
IPK/SPX Address:				
Bind Exclusively to TCP/IP Address				
Port				
Message Transfer: 0				
HTTP: 0 🖨				

Test by opening a web browser by typing <u>http://ipaddress:httpPort</u>. For example, if the agent were running

on a server with an IP address of 192.168.2.3, and an HTTP port of 9999, *http://192.168.2.3:9999.* You should be prompted for the username and password just assigned

> Do not proceed until this is working

If you want to have accounting information for reports and message tracking, enable

"Accounting" and specify a gateway accountant.

			1	1
			Add	Delete
Administrator Role			Add	Delete
Administrator Role			Add	Delete
Administrator Role			Add	Delete
Administrator Role			Add	Delete
Administrator Role Coperator Accountant Postmaster Foreign Operator			Add	Delete

×

The accounting log files will be sent to this user and can be imported into Redline via SOAP automatically.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Notes Gateway. Specify the IP Address, Port, Username and Password.

Dast	hboard	Alorte								
		Alerts	System V	liew	Reports N	lessage Track	ing Confi	gure Favorites	A	uto Refresh
	nary Statu	s Sett	ings Alerts	Reports	Graphs Config	ure Manag	e ux 2.6.27.19-5-pae. Uoti	me: 0d 3h 35m) Help
GW System	nt Informati					-,.				
Redline Database Des	cription	on								Value
Glo	bal Unique ID (GUID)								2
and a second sec	Monitored	Agents								
		Type HOST	Description	Unique ID 3	Agent Name	Status	HTTP IP Address	HTTP IP Port	- SSL	Action
Age Stat HTT HTT HTT Use Age	Add or Edit ent Type: tus: TP Address: TP Port: TP Username: TP Password: SSL: ent Name: ent Name Suffix	HOST	Host Ted Agent GW Notes G Enabled admin Yes Kes Kes Kes Kes Kes Kes Kes Kes Kes K	3 Nateway	•	enabled	-	•		

After 2-3 minutes, a message should appear on the Redline Agent that the Notes Gateway has been registered to the Control Center and shows up in the Control Center.

GroupWise Post Office Agent

Begin by writing down the IP address for this component on the work sheet provided in the <u>Appendix</u>.

Open the POA object in ConsoleOne, and go to the **GroupWise/Network Address** tab.

Ensure SSL is disabled and that the HTTP port is assigned (the default is 7181). Note this port on the work sheet as well.

Properties of POA	×
GroupWise ▼ NDS Rights ▼ Other Network Address	Rights to Files and Folders
TCP/IP Address: Proxy Server Address: IPX/SPX Address:	192.188.2.3 2 2 2 2
Message Transfer: 7101 ★ HTTP: 7181 ★ Local Intranet Client/Server: 1677 ★ Internet Proxy Client/Server: 0 ★ IMAP: 143 ★ CAP: 1026 ★	SSL SSLPort Disabled ▼ Disabled ▼ Disabled ▼ Disabled ▼ Disabled ▼
Page Options	OK Cancel Apply Help

Next, select the **GroupWise/Agent Settings** tab. Assign an HTTP username and password. This should not be the same as a valid eDirectory account. Write down this information in the work sheet as well.

Make sure SNMP is turned on. You probably want to assign a community name, other than public or blank (which defaults to public), to reduce the security risk.

Click **OK** to save your settings.

🔽 Enable Caching					
CPU Utilization (NLM):		85	🔹 pe	rcent	
Delay Time (NLM):		100	🖨 mil	iseconds	
Max Thread Usage for Priming and Moves		20	🗘 pe	rcent	
Enable IMAP					
Max IMAP Threads:		50	÷		
Enable CAP					
Max CAP Threads:		50	÷		
Enable SOAP					
Enable SNMP					
SNMP Community "Get" String:					
HTTP Settings					
HTTP User Name:	admin				
	1 1				

Testing

Wait one minute for the GroupWise configuration to propagate. Test in a web browser by typing: <u>http://ipaddress:httpPort</u>

For example if the POA were running on a server with an IP address of 192.168.2.3, and an HTTP port of 7181, <u>http://192.168.2.3:7181</u>

You should be prompted for the username and password just assigned. If this does not occur, recheck the settings in ConsoleOne, and open the agent's startup file to verify that no startup switches have overridden this configuration. Also, try restarting the agent.

> Do not proceed until this is working

Return to ConsoleOne and reopen the agent. Go to the **GroupWise/Log Settings** tab, and verify logging is both on and set to verbose. It is not necessary to specify the Log File Path. GroupWise will use the default path.

percision rom		
GroupWise ▼ NDS Rights ▼	Other Rights to Files and Folders	
Log File Path:		
Max Log File Age:	7 📥 days	
Max Log Disk Space:	65536 📥 KBytes	

GWCHECK Scheduled Events in the GroupWise POA

Why are GWCHECK log files important?

GWCHECK log files are an important source of user information in Redline. In order to get this information in the correct way, some settings have to be configured in ConsoleOne. If these settings are not correct, incomplete data is created, or no data at all. Several reports depend on these.

GWCHECK always runs on the POA. If administrators want to have information from GWCHECK, they must configure the GWCHECK reports on every POA from which information is needed.

Redline requires three GWCHECK log files. Their default location is: <PathToYourPostOffice>/wpcsout/chk/

If these files are not generated in this folder, Redline will not be able to read and analyze them. The content of these GWCHECK files are different and provides different kinds of data for the reports. These three log files are:

gwaudit.log - GWCHECK Audit report

- User Name
- Post Office Name
- > UserDB file
- Last Active date/time
- Inactive Days
- License Type

gwstats.log - GWCHECK Expire statistics

- User Name
- Post Office Name
- Full Name
- Mailbox Size
- Last DRN
- > User MSG file
- Data Records
- > Deleted Records
- Setup Records
- > Record Bytes

mbstats.log - GWCHECK Mailbox statistics

- User Name
- Post Office Name
- Full Name
- UserDB file
- Last Active date/time
- License Type
- Messages Total
- Messages InBox
- Messages OutBox
- Messages Basket
- ➤ # of Mails
- > # of Notes
- ➤ # of Tasks
- # of Appointments
- # of Phone Messages
- # of Profiles
- # of Attachments
- # of Search folders
- Mailbox Size
- Last DRN
- Data Records
- Record Bytes
- Max. Mailbox Size
- Mailbox Size Threshold

Creating the GWCHECK events

To create the reports, load Console One and open the POA properties. Go to the

GroupWise/Scheduled Events tab. Three different jobs must be created, each under a collective entry of Redline Tasks.

If the Redline Tasks option doesn't already exist, click **Create**, and enter Name, Event Type, and Trigger information exactly as shown below. This instructs the GroupWise POA to generate these



three log files once per day at 12:30 AM. We recommend a daily run of these Redline Tasks.

- Note Until these GWCHECKs run, many reports will be not be populated with data.
- > Note Do not use an Interval in GWCHECK this feature is problematic.

When returning to this screen after configuring the GWCHECK options, ensure the checkbox next to Redline Tasks is enabled.

When creating Redline Tasks, a Default Maintenance task may appear in the Actions frame. It should be left unselected.

Individual GWCheck actions – Audit Report, GW Stats, and MB Stats, must also be created. See the next section for specifics.

Note - Remember to make sure all of the GWCHECK actions are enabled (the checkbox is selected) – when first created. These are disabled by default.

Check the **Results** tab while creating each of the three GWCHECK actions. Make sure that Logfile Results are NOT sent via e-mail to the

ama:		Redline T	aaka	
ame.		Redine i	asks	Tister
/ent Type:		Iманрохгі	prary Maintenance	<u>×</u>
Trigger				
🔿 Weekday				
Oaily	Time:		12:30AM	
C Interval				
GW Stats	Mand UX LID	ary maintens	nice Actions	Edit Delete

Administrator. Otherwise the data is not stored to disk, and Redline has no access to it.

> Each GWCHECK action requires verbose logging to be enabled.

Audit Report (GWAUDIT.LOG)

- > For the name, type in **gwaudit**
- > Change the Action to **Audit Report**
- Click the Logging tab and enter gwaudit.log Check the box for Verbose logging
- Click the **Results** tab and make sure that nothing is checked
- Click OK to confirm your changes or
 Cancel to leave your settings unchanged

C Scheduled Event Action	
Name: Audit Report	ОК
Action: Audit Report	Cancel
Show accounts without activity for previous	Help
Verbose logging	
و <u>و</u> و	
,	

Mailbox Statistics (GWSTATS.LOG)

- > For the name, type **gwstats**
- > Change the Action to **Mailbox Statistics**
- Click the Logging tab and enter gwstats.log Check the box for Verbose logging
- Click the **Results** tab and make sure that nothing is checked
- Click OK to confirm your changes or
 Cancel to leave your settings unchanged



Mailbox analysis (MBSTATS.LOG)

- > For the name, type in **mbstats**
- > Change the Action to Mailbox Statistics
- > Click the radio button for **Expire Statistics**
- Click the Logging tab and enter mbstats.log Check the box for Verbose logging
- Click the **Results** tab and make sure that nothing is checked
- Click OK to confirm your changes or Cancel to leave your settings unchanged

C Scheduled Event Action	
Name: MB Stats	ОК
Action: Mailbox Statistics	Cancel
C Mailbox Statistics Box limit 500	Help
Expire Statistics	
🔽 ttems older than 60 🚔 days	
🔽 Downloaded items older than 🛛 🕄 🖨 days	
I tems larger than 1000 ▲ KB	
☐ Reduce mailbox to 5000 🖨 KB	
Reduce mailbox to limited size	
✓ Received items ✓ Sent items	
Calendar items	
Conly backed-up items	
Only retained items	
Databases Logging Results Misc Exclude	
Log File: mbstats.log	
Verbose logging	

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Post Office Agent. Specify the IP Address, Port, Username and Password. In Addition to that it is possible to run a regular SOAP connection test on the Post Office. The Redline agent will try to connect to the SOAP port every 2 minutes, and generates a report if this is not possible.

Redline ^{3.5}									📲 Logout 🔞	Admin Guide	 Install Guide
	Dashboard		Alerts	System View	Reports	Message Tracki	ng	Configure	Favorites	A	rto Refresh
SYSTEM VIEW GW System Redline Agent	Summary Stat	us Setti	ngs Alerts Rep e Agent: RLAgent-rico	oorts Graphs Confi enterx32, Version: 3.5.0 (10	gure Manage 103), Platform: Linux 2.6.27.19-5-	pae, Uptime: 0d 3h 35m				(Help
🛨 🝵 Redline Database	Description	uon									Value
	Global Unique II	(GUID)									2
	Agents:	Туре	Description	Unique ID	Agent Name	Status	HTTP IP Address		HTTP IP Port	SSL	Action
		HOST	Host	3		enabled					2 *
	🏽 🎥 Add or Ed	lit Monitor	ed Agent								
	Agent Type:		GW Post Office A	gent 🝷							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:										
	HTTP Username		admin								
	HTTP Password:		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Suf	fix:									
	😡 Connectio	on Test									
	The POA will be	checked again	nst the SOAP port and a I	ogin/logout to the defined ac	count will be done.						
	Address:										
	Port:										
	Username:										
	Password:										
			🤌 ОК								

After 2-3 minutes, a message should appear on the Redline Agent that the POA agent has been registered to the Control Center and the GroupWise Post Office shows up in the Control Center.

GroupWise WebAccess Agent

Begin by writing down the IP address for this component. Record this information on your worksheet. Open the WebAccess object in ConsoleOne, and go to the **GroupWise/Network Address** tab.

Ensure SSL is disabled and that the HTTP port is assigned (the default is 7211). This port should be noted in the work sheet as well.

Next, select the GroupWise/Optional Gateway Settings tab.

Assign a HTTP username and password. This should not be the same as a valid eDirectory account. Include this information in the work sheet as well.

Properties of WEBAC65A	×
WebAccess VebPublisher	Access Control • Reattach Post Office Links GroupWise • NDS Rights • ¢ • NDS Rights • ¢
TCP/IP Address: IPX/SPX Address:	192.168.2.3
HTTP: 7211	SSL Disabled
TCP: 7205	Disabled 💌
Page Options	OK Cancel Apply Help

WebAccess WebPublisher Access Co	trol • Reattach Post Office Links GroupWise • NDS Righ (
Directory Sync/Exchange:	None
Accounting:	Yes
Convert Status to Messages:	No
Outbound Status Level:	Open
Enable Recovery:	Yes
Retry Count:	10 🔺 (1-99)
Retry Interval:	5 seconds
Failed Recovery Wait:	3600 seconds
Network Reattach Command:	
Correlation Enabled:	Yes
Correlation Age:	14 📥 days
HTTP Settings	
HTTP User Name:	admin
HTTP Password:	Set Password
Page Options	OK Cancel Apply Help

ties of WEBAC65A

Select the **GroupWise Identification** tab. SNMP is automatically enabled for the WebAccess, but you should assign a community name here (other than public or blank, which present security risks).

Click **OK** to save your settings. Wait one minute for the GroupWise configuration to propagate. Test in a browser by typing <u>http://ipaddress:httpPort</u>

perties of \	WEBAC65A										
VebAccess	VVebPublisher	Access Contr	rol 🗕 🗍 R	eattach	Post Offi	ce Links	Grou Identif	p₩ise → ication	NDS Righ	nts ▼ (ऑर ्
Domain.Gate	way:		MJBPRI.V	VEBAC65	A						
Description:											
Subdirectory	e										-
Time Zone:			(GMT-08	3:00) Paci	fic Time (U	5 & Canac	da); Tiju	ana			•
Database Ve	ersion:		6								Ŧ
Platform:			Window	s							٣
Gateway Ty	pe:		GroupW	ise Web.4	ccess						٣
Gateway Ali	as Type:										
Foreign ID:											
SNMP Comm	unity "Get" String										
Page Option	ns					OK		Cancel	Appl	y	Help

For example if the WebAccess agent were running on a server with an IP address of 192.168.2.3, and an HTTP port of 7211, <u>http://192.168.2.3:7211</u>

You should be prompted for the username and password just assigned. If this does not occur, recheck the settings in ConsoleOne, and open the agent's startup file to verify that no startup switches have overridden this configuration. Also, try restarting the agent.

> Do not proceed until this is working

Return to ConsoleOne and reopen the agent. Go to the **GroupWise/Log Settings** tab, and verify logging is on and set to verbose.

> Note - Some versions of GroupWise will not write the WebAccess logs to disk unless the startup file (strtweb.ncf) is edited to add /logdiskon as a command line switch.

Properties of WEBAC65A	×
WebAccess WebPublisher Access	Control ▼ Reattach Post Office Links GroupWise ▼ NDS Rights ▼ Otf
Log File Path: Logging Level: Max Log File Age: Max Log Disk Space:	Verbose ▼ 7 ▲ days 1024 ▲ KBytes
Page Options	OK Cancel Apply Help

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the WebAccess Agent. Specify the IP Address, Port, Username and Password. In Addition to that it is possible to run a regular connection test. The Redline agent will simulate logging in via a browser and try to do a full login every 2 minutes, and reports if this isn't possible.

Redline ^{3.5}									📲 Logout 🏾 😨	Admin Guide	Install Guide
	Dashboard		Alerts	System View	Reports	Message Tracki	ng	Configure	Favorites	A	uto Refresh
YSTEM VIEW	Summary Stat	us Settir X Redline	Alerts Rep Agent: RLAgent-rlc	orts Graphs Confi enterx32, Version: 3.5.0 (10	gure Manage 103), Platform: Linux 2.6.27.19	5-pae, Uptime: 0d 3h 35m				(🥥 Help
Redline Database	Agent Informa Description Global Unique II	(GUID)									Value 2
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name -	Status enabled	HTTP IP Address		HTTP IP Port	SSL -	Action
	add or Ec	lit Monitore	ed Agent								
	Agent Type:		GW WebAccess	Agent -							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:										
	HTTP Username		admin								
	HTTP Password:		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Suf	fix:									
	🐼 Connectio	on Test									_
	The WebAccess t	est will do a w	to based login to the de	fined account. Default is Port	30.						
	Address:										
	Port:		_								
	Username:		_		_						
	Password		_								
	rassword.		Ø OK								
											_

After 2-3 minutes, a message should appear on the Redline Agent that the WebAccess agent has been registered to the Control Center and the GroupWise WebAccess shows up in the Control Center.

GroupWise WebAccess Application

Beside the WebAccess Agent and the Document Viewer Agent you can monitor the WebAccess Application as well. In order to enable WebAccess Application monitoring, you need to configure the webacc.cfg file. This file is located here:

Windows and NetWare:novell\webaccess\

Linux:	/opt/novell/groupwise/webaccess/	Current File "SYS:NOVELLNWEBAC
		######################################
Enable	the http server for the WebAccess	Admin.WebConsole.username=admin Admin.WebConsole.password=password
Applica	ation by editing webacc.cfg. By default,	Admin.WebConsole.helpPath=/gu/com/novell/webac
the htt	p interface is disabled.	######################################
Restar	IAVA in order to enable the http	# # Specifies the amount of inactive time before # This allows the servlet to free up resource #-
interfa	ce.	Security.timeout=20 #



From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the WebAccess Application. Specify the IP address, port, username and password.

Redline ^{3.5}									📲 Logout 🛛 😨	Admin Guide	Install Guid
Recame	Dashboard		Alerts	System View	Reports	Message Tra	cking	Configure	Favorites	A	uto Refresh
SYSTEM VIEW GW System Redline Agent Redline Database	Summary State State State Agent Informat Description Global Unique ID Monitored	us Setti Redlin ion (GUID)	ings Alerts he Agent: RLAgent	Reports Graphs Co t-ricenterx32, Version: 3.5.0	onfigure Manage (1003), Platform: Linux 2.6.2	7.19-5-pae, Uptime: 0d 3h 35r	n			(Help Value 2
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name -	Status enabled	HTTP IP Address		HTTP IP Port	SSL	Action
	🏽 🏖 Add or Ed	it Monitor	red Agent								_
	Agent Type:		GW WebAcc	ess Appl. 🔹							
	Status:		Enabled							Cogout Admin Guide Install Gu Favorites Auto Refresh	
	HTTP Address:										
	HTTP Port:										
	HTTP Username:		admin								
	HTTP Password:		•••••								
	Use SSL:		🗉 Yes								
	Agent Name:										
	Agent Name Suff	ix:	_								
			🤌 ОК)							

After 2-3 minutes, a message should appear on the Redline Agent that the WebAccess Application has been registered to the Control Center and shows up in the Control Center.

GWAVA

GWAVA 3.5 or higher can be monitored by Redline. Older versions are not supported, and GWAVA 4 is configured differently than GWAVA 3.x. The first part explains the configuration you need to do for

ð	GWAVA Configurat	ion			
	Miscellaneous				
		^	User name	admin To login via the bindery, leave the NDS server field blank. For an NDS login,	
	()		Password	xxxx both the NDS server and User name fields should include the full NDS	
	Notify Options		MTA Server and context	be granted RWCEM Fights to the Domain and Product directories.	
	Miscellaneous		HTTP Server Po	rt 7184 (0 or blank disables service)	
	Licensing		🔲 Preserve stati	istics on restart	
			🔲 GWAVA is ins	stalled in a cluster	
	About		Event T	ext MTA Startup File Message Attachment	
	OK Cancel	Apply	Current MTA Startup F Current Product Direct	File: \\NW65\sys\SYSTEM\dom.mta tory: C:\Program Files\BeginFinite\GWAVA\GWAVA	

GWAVA 3.

GWAVA contains an embedded HTTP server similar to the GroupWise agents. To enable this server, launch the GWAVA Configuration Program. Select the Miscellaneous tab. Ensure the HTTP Server Port entry contains a valid TCP Port (non-zero). 7184 is the recommended default. This port is needed in the RLAGENT configuration file.

GWAVA does not require authentication information. To test this HTTP server, open a command line interface and type Telnet IP address 7184. For example: Telnet 192.168.2.3 7184 should connect to the server. Several carriage returns will exit the server interface. If there is no connection, recheck GWAVA's settings.

Logging

GWAVA's logging must also be on. Go to the Logging tab, and ensure that the **Enable logging** of console information to disk checkbox is enabled. The Level of date/time detail drop-down menu should be set to Display Date/Time.

99 ⁹				
	Enable logging of console informati	on to disk	_	
h/m_	Log files shouldn't exceed	1024	KB	
Logging	Rollover log when older than	1	days	
×.	Level of date/time detail	Display Date/T	ime 🔽	
Location of Files	Offline logging	3. ¹		
	Verbose logging			
Server Profile	Automatically prune logs			
	Remove logs older than	7	days	
Surveillance =	Remove at	2 hour (023	3]	
	Bemote IP Logging	Event Logging		
Notifu Options		e ronk eogging		
	Reports	Scheduled Output		

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the GWAVA 3.x Agent. Specify the IP Address, Port. Username and Password are ignored.

Redline ^{3.5}									📲 Logout 🏼 😨	Admin Guide	🍘 Install Guide
	Dashboard		Alerts	System View	Reports	Message Trac	cking	Configure	Favorites	A	uto Refresh
SYSTEM VIEW • Solution System • Redline Agent • Redline Database	Summary Stat	tus Setti Redlin ation D (GUID) d Agents	ngs Alerts e Agent: RLAgent-	Reports Graphs Co rlcenterx32, Version: 3.6.0	onfigure Manage 1 (1003), Platform: Linux 2.6	27.19-5-pae, Uptime: 0d 3h 35n	n			(Help Value 2
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name -	Status enabled	HTTP IP Address		HTTP IP Port	SSL -	Action
	🀉 Add or Ed	dit Monitor	ed Agent								
	Agent Type:		GWAVA 3.X	•							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:		7184								
	HTTP Username	e.	admin								
	HTTP Password:		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Sut	ffix:									
			Ø OK								

After 2-3 minutes, a message should appear on the Redline Agent that the GWAVA 3.x agent has been registered to the Control Center and shows up in the Control Center.

GWAVA 4x / 5x

GWAVA 4 is entirely web based and all that is necessary is to create an administrator account for Redline. Log into the web interface, go to System Management/Administrator accounts and specify the new username and password.

Home GWAVA.com Support Help Log	^{jout} SSUser Accounts		Save C	hanges 昃		\$	ÿ	2	2
Walcome	Login Name	redline							1
Quarantine manager	Password	•••••							
Documentation	Confirm Password	*******	Add Nev	v Administrato	or				
Bookmarks System Management	redline		Set Password	Pref	erence	es		8	
□ ↓ System management ▲ ▲ Administrator accounts ● ↓ System information ● Default settings ● ↓ Servers ● ▲ Advanced	Admin		Set Password	Pref	erence	25		8	

Note – It is important to know that GWAVA 3 and GWAVA 4 are configured differently in Redline. If you do it manually, make sure you use the correct configuration block in rlagent.conf.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the GWAVA 4.x/5 Agent. Specify the IP address, port, username and password. GWAVA 4.x/5 requires a username and a password.

Dealling 35											
Kealine		_							- Logout 🐨	Admin Guide	Install Guide
	Dashboard		Alerts	System View	Reports	Message Trac	king	Configure	Favorites	Au	to Refresh
SYSTEM VIEW	Summary Sta	Redlin	ngs Alerts e Agent: RLAgent	Reports Graphs Cont -ricenterx32, Version: 3.5.0 (1	igure Manage 003), Platform: Linux 2.6.27.19	-5-pae, Uptime: 0d 3h 35m					Help
Redline Database	Description Global Unique I	ID (GUID)									Value 2
	🀉 Monitore	d Agents									
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name	Status enabled	HTTP IP Address		HTTP IP Port	SSL -	Action
	🏽 🏖 Add or E	dit Monitor	ed Agent								
	Agent Type:		GWAVA 4.x/5	•							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:										
	HTTP Username	e:	admin								
	HTTP Password		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Su	iffix:									
			🧼 ОК)							

After 2-3 minutes, a message should appear on the Redline Agent that the GWAVA 4.x agent has been registered to the Control Center and shows up in the Control Center.

GWAVA Reload

GWAVA Reload is a tool for backing up, and accessing multiple data sets of your post offices on NetWare, Linux, and Windows. GWAVA Reload creates 'Hot Backups' that can be accessible to a GroupWise client within minutes.

To configure Reload to operate with Redline, administrators should know the IP address and port of the GWAVA Reload server's HTTP/HTTPS monitoring port. GWAVA Reload has everything you need for Redline automatically available, and you don't need to configure anything in GWAVA Reload.

For full monitoring capabilities and reports, you need to run a Redline Agent on the reload box, because it needs access to some log files.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the GWAVA Reload Agent. Specify IP address and port of your GWAVA Reload server. Username and password only are utilized if Reload has been configured to require authentication for the web user interface.

Redline ^{3.5}									📲 Logout	Ø Admin Guide	Install Guide
	Dashboard		Alerts	System View	Reports	Message Ti	racking	Configure	Favorites	Au	ito Refresh
SYSTEM VIEW	Summary Status	s Setti	ings Alerts e Agent: RLAgen	Reports Graphs t-ricenterx32, Version:	Configure Manage 3.5.0 (1003), Platform: Linux 2	.6.27.19-5-pae, Uptime: 0d 3h 3	35m				🥥 Help
+ 💮 Redline Agent + 📑 Redline Database	Agent Information Description Global Unique ID (on GUID)									Value 2
	🀉 Monitored .	Agents									
	Agentx Add or Edit Agent Type: Status: HTTP Address: HTTP Port:	Type HOST	Description Host	Unique ID 3) Agent Name	Status enabled	HTTP IP Address		HTTP IP Port	SSL -	Action
	HTTP Username:		admin								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Suffix		Ø OK)							

After 2-3 minutes, a message should appear on the Redline Agent that the Reload agent has been registered to the Control Center and shows up in the Control Center.

GWAVA Retain

Retain is a new archiving solution for GroupWise, which is based on two components: Retain Server and Retain Worker. Both components can be monitored with Redline, and all you need to do is enable monitoring in Redline.

Because of the fact that Retain is a Java application and uses Tomcat for the web interface, you need to use port 48080 for monitoring. Specify IP address, port, username and password.

Padling 35										Admin Cuide	S. In stall Cuide
Realine		_							- Logout	Admin Guide	
	Dashboard		Alerts	System View	Reports	Message Trac	king	Configure	Favorites	Au	to Refresh
SYSTEM VIEW	Summary Sta	tus Setti	ings Alerts	Reports Graphs Config	gure Manage					_	
🕀 🎦 GW System	0 🚳 100.00	Kedlin	e Agent: RLAgent	-ricenterx32, Version: 3.5.0 (10	03), Platform: Linux 2.6.27.1	3-5-pae, Uptime: 0d 3h 35m					Help
🛨 🍈 Redline Agent	Agent Informa	ition									
(±) 🗧 Redine Database	Global Unique I	D (GUID)									2
	A Monitore	d Agents									
	Agents:	Туре	Description	Unique ID	Agent Name	Status	HTTP IP Address		HTTP IP Port	SSL	Action
		HUST	HOST	3		enabled	•		•		•
	🏖 Add or E	dit Monitor	red Agent								
	Agent Type:		Retain Server	r 🔹							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:		7184								
	HTTP Username		admin								
	HTTP Password		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Su	ffix:									
			🧼 OK								

After 2-3 minutes, a message should appear on the Redline Agent that the Retain Server or Worker has been registered to the Control Center and shows up in the Control Center. Make sure to configure both, Retain Server and Worker separately in Redline.

GWAVA Reveal

Reveal is a powerful tool for examining the contents of a live GroupWise system and a Reload System. Authorized administrators may access any mailbox without special rights. To enable auditing security, GWAVA Reveal 1.1 or higher provides an option to produce auditing information and send it to the Redline Control Center automatically.

GWAVA Reveal COnfigure auditi Reveal will not work withou	ng t proper auditing. This, to enforce	existing business and legal policies.	
ecide which auditing met	hod to use		?
 Use Redline for auditing. If Use Redline for auditing. If Use simple textfile auditing 	Redline becomes unavailable, au Redline becomes unavailable, shu only.	to-fallback to textfile auditing. utdown Reveal.	
Note: If no auditing is p	ossible, Reveal will shutdown	immediately!	
onfigure Redline auditing	settings	Redline	?
Server IP address:	192.168.10.96	Redline - Complete GroupWise Monitoring and Reporting at your)
Server port:	6900	linger ups. Hore information <u>nere</u>	
Registration name:	•	?	x
Registration code:		X	
onfigure textfile auditing	settings		?
Auditing directory:	\\WW65\sys\tmp		
Maximum logfile size (kb):	1024		
Minimum free disk space (MB):	50		
Note: Make sure users	nave read/write access to th	e chosen auditing directory.	
		OK L CY	acel
			icei

After Redline is installed, in Reveal, go to Administration/Auditing Settings, and click the **Lookup** button. Provide the path to RLCENTER.CONF file of the server running the Redline Control Center. This is typically in /opt/beginfinite/redline/conf and should automatically populate the rest of the page. Otherwise one must manually enter information such as the Redline Control Center IP Address and Port, as well the Registration Name and Code for Redline.

Reveal can automatically communicate directly with the Redline Control Center. It does not need to use a Redline Agent at all.

Host Platform

The Host monitoring agent is added automatically on install, though if the monitored agent is ever removed from the Redline system, it can be re-added without hassle.

ONLY add the host if it is missing, or has been removed from the system.

Every host platform (Linux, NetWare, and Windows) is important for running applications on top of it. If something is not correct with the host, the application usually can't perform as it potentially would.

CPU speed, disk space, available memory, etc. are all important parameters. Every host where a Redline agent is running on can be monitored. In order to enable host monitoring, you only need to enable this through the Control Center web interface:

Redline 3.5									📲 Logout	Admin Guide	Install Guide
	Dashboard		Alerts	System View	Reports	Message Tracking		Configure	Favorites	4	Auto Refresh
	Summary State	s Setti	ngs Alerts R e Agent: RLAgent-r	eports Graphs Conf Icenterx32, Version: 3.5.0 (1	figure Manage 003), Platform: Linux 2.6.27.19	8-5-pae, Uptime: 0d 3h 35m					lelp
Redline Agent Redline Database	Agent Informat Description Global Unique ID	ion (GUID)									Value 2
	🀉 Monitored	Agents									
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name -	Status enabled	HTTP IP Address	н	TTP IP Port	SSL -	Action
	🏽 🏖 Add or Ed	t Monitor	ed Agent								
	Agent Type:		Host	-							
	Status:		Enabled								
	Agent Name:										
	Agent Name Suff	×									
			🤌 ОК								

After 2-3 minutes, a message should appear on the Redline Agent that the Host has been registered to the Control Center and shows up in the Control Center.

NotifyLink 4

NotifyLink 4 is supported in all NotifyLink builds from September 2005 onwards. The NotifyLink Enterprise Server for GroupWise requires three components to be installed - the SQL Database, the Web Server and the Messaging Server. The system and server requirements vary depending on the components being installed, and whether or not they are on a single or multiple servers. Obviously, the installation and configuration of NotifyLink systems are beyond the scope of this manual; however, in general, the components that must be installed with a NotifyLink Enterprise Server are:

- > Messaging Engine
- Database
- > Web Interface
- > Device Client

Please consult the NotifyLink 4 documentation for further details.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the NotifyLink Agent. Specify IP address, port, username and password of your NotifyLink server.

😹 Redline 3.5									📲 Logout 🛛 🞯	Admin Guide	Install Guide
	Dashboard		Alerts S	ystem View	Reports	Message Trac	king	Configure	Favorites	A	uto Refresh
SYSTEM VIEW	Summary Stat	us Setti	ngs Alerts Repor	ts Graphs Configu	re Manage						
🛨 🐑 GW System	0 😺 100.00	Redlin	e Agent: RLAgent-ricent	terx32, Version: 3.5.0 (1003), Platform: Linux 2.6.27.19-	5-pae, Uptime: 0d 3h 35m				(Help
🛨 🌰 Redline Agent	Agent Informa	tion									
🔋 Redline Database	Description Global Unique I	(GUID)									Value 2
	A Monitored	Agents									
	Agents:	Type HOST	Description Host	Unique ID 3	Agent Name	Status enabled	HTTP IP Address		HTTP IP Port	SSL	Action
	add or Ed	it Monitor	ed Agent								
	Agent Type:		NotifyLink Server	-							
	Status:		Enabled								
	HTTP Address:										
	HTTP Port:		7184								
	HTTP Username		admin								
	HTTP Password:		•••••								
	Use SSL:		Yes								
	Agent Name:										
	Agent Name Suf	fix:									
			🔌 ОК								

After 2-3 minutes, a message should appear on the Redline Agent that the NotifyLink server has been registered to the Control Center and shows up in the Control Center.

Redline Agent

Every Redline Agent (Linux, NetWare, and Windows) needs some sort of self monitoring to make sure alerts are generated correctly and information is collected on a regular basis. If something is wrong with the Redline agent, it may inhibit data collection, resulting in incorrect reports, graphs, alerts, etc.

Every Redline agent can be monitored. In order to enable Redline Agent monitoring, you only need to enable this through the Control Center web interface:

X	Redline ^{3.5}								📲 Logout 🎯 Ad	min Guide	Install Guide
		Dashboard	Alerts	System View	Reports	Message T	racking	Configure	Favorites	Au	to Refresh
SYST	EM VIEW	Summary Sta	tus Set	tings Alerts Reports	Graphs Cor	figure Manage	e				
۲	GW System		GW I	Nessage Transfer Agent: RLAge	nt-RETAIN2, Versi	on: 3.5.0 (1003), Pla	tform: Linux 2	2.6.27.19-5-pae, Uptime:	0d 10h 38m		Help
🗄 🔶	GW Internet Agent	Agent Informa	tion								
E 🌍	GW Message Transfer Agent	Description									Value
🛨 📻	GW Post Office Agent	Monitoro	d Agonte								4
± 😭	GWAVA 4.x/5	Agents	u Agents								
🕀 💽	Host	, gans,	Type GW4V4	GWAVA 4 x/5	Unique ID	Agent Name	Status	192 168 1 104	49282	disabled	Action
🕀 🏀	Redline Agent		GWIA	GW Internet Agent	6	-	enabled	192 168 1 104	9850	disabled	
🙂 🍵	Redline Database		HOST	Host	5		enabled				72 2
۲	MyGroup		MTA	GW Message Transfer Agent	15		enabled	192,168,1,104	7180	disabled	72
			POA	GW Post Office Agent	13		enabled	192.168.1.104	7181	disabled	RX X
				, i i i i i i i i i i i i i i i i i i i							-
		add or Ed	lit Monito	red Agent							
		Agent Type:		Redline Agent	•						
		Status:		Enabled							
		Agent Name:									
		Agent Name Suff	ix:								
				Ø OK							

After 2-3 minutes, a message should appear on the Redline Agent that the Redline Agent has been registered to the Control Center and shows up in the Control Center.

Blackberry Enterprise Server

The BlackBerry Enterprise Server components can be installed on one server, or on multiple servers. Obviously, the installation and configuration of BlackBerry servers and clients are beyond the scope of this manual; some basic GroupWise requirements for BES are:

GroupWise Requirements

- Novell GroupWise system version 6.5 SP1 or later for post offices containing BlackBerry users. The GroupWise system must be installed on a computer different than the computer running the BlackBerry Enterprise Server.
- A trusted application key is generated to enable communication between the BlackBerry Enterprise Server and the primary domain of the GroupWise system. The trusted application key is used by subsequent secondary domains. If there are multiple BlackBerry Enterprise Servers in a BlackBerry Domain, each BlackBerry Enterprise Server uses the same trusted application key to access GroupWise.
- The trusted application key must be provided during the BlackBerry Enterprise Server installation. If a new trusted application key is generated after installing the BlackBerry Enterprise Server, update the BlackBerry Enterprise Server configuration with the new key.

Configuring Blackberry Enterprise Server

In the Windows Control Panel, select the BlackBerry Server Configuration panel. Note the Logs directory shown at the top. This is the location that must be specified as the PATH parameter in Redline.

Leave Log File Prefix blank, and ensure the **Create Daily** Log Folders checkbox is enabled

Scroll through the BlackBerry Service Log Settings and set the various services as follows:

- > Debug log identifier -Leave unchanged
- > Debug log daily file Yes
- > Debug log level 4
- > **Debug Log Size (MB)** 0 (unlimited size)
- > Debug log auto-roll Yes
- Debug log maximum daily file age 7-14 days (0 keeps logs forever)

BlackBerry Server Configuration ? X BlackBerry Server Configuration Panel BlackBerry. GroupWise Settings Mobile Data Service Attachment Server Database Connectivity | BlackBerry Server Logging BlackBerry Router Files\Research In Motion\BlackBerry Enterprise Server\Logs\ Browse... Log file prefix 🛛 🔽 Create daily log folder BlackBerry Service Log Settings Reset All Setting . Service Name BlackBerry Attachment Service Aller Debug log identifier: ASRV ♥ Debug log daily file: yes 12 Debug log level: 4 22 Debug log size (MB): 0 ¥ Debug log auto-roll: ves 22 Debug log maximum daily file age: 14 🌃 BlackBerry Attachment Conversion Aller Debug log identifier: ACNV 🎗 Debug log daily file: yes 🕫 Debug log level: 4 12 Debug log size (MB): 0 🎗 Debug log auto-roll: yes • ΟK Cancel Apply

Reboot the BES server. The log file settings take effect only after reboot, or after restarting all BlackBerry services.

From the Redline Control Center, go to the System View and pick the Redline Agent which will monitor the Blackberry Enterprise Server. Specify the path to the log folder.

Redline ^{3.5}											-8	Logout	Ø Admin Guid	le 💿 Install Gu	uide
	Dashboard		Alerts	System V	iew	Reports	Message	Tracking		Configure		Favorites		Auto Refresh	
SYSTEM VIEW	Summary Sta	tus Setti	ngs Alerts	Reports Gr	aphs Config	gure Manage									
🕀 🀑 GW System	0 😺 100.00	X Redlin	e Agent: RLAgen	t-rlcenterx32, v	Version: 3.5.0 (10	03), Platform: Linux 2.6.2	7.19-5-pae, Uptime: 0d 3	ih 35m						🛛 🥥 Help	4
🛨 🌰 Redline Agent	Agent Informa	tion													
🛨 🍵 Redline Database	Description Global Unique I	D (GUID)												Value 2	
	🏽 🀉 Monitore	d Agents													
	Agents:	Туре	Description	U	nique ID	Agent Name	Status	HTTP	IP Address		HTTP IF	P Port	SSL	Action	
		HOST	Host	3			enabled							2 × 1	
	Pr Add or E	dit Manitor	od Arout												
	a Add of Ed	ant monitor		0											4
	Agent Type:		RIM DIACKDE	erry Server	v										
	Status:		Enabled												
	Agent Path:														
	Agent Name:														
	Agent Name Sur	ffix:													
			🤌 ОК)											

After 2-3 minutes, a message should appear on the Redline Agent that the Blackberry Enterprise server has been registered to the Control Center and shows up in the Control Center.

Vertigo

Redline monitoring in Vertigo is accomplished without any Redline agent. Vertigo reports and connects directly to Redline. All configuration required for Vertigo monitoring is contained inside Vertigo.

To configure Vertigo to connect to Redline:

- Start Vertigo and connect to the GroupWise system.
- Select 'Auditing' from the 'Settings' menu.
- From the 'Configure Auditing' menu, select the desired one of the two options:
 - 1. Use Redline for Auditing. If unavailable, auto fall-back to text auditing.
 - 2. Use Redline for Auditing. If unavailable, shutdown Vertigo.
- Enter the IP address or host name of the Redline Server
- Select the port that the Control Center is currently listening on (default port 6900)
- Specify the timeout, set in number of seconds (300 is default and recommended)
- The registration must match the registration code and company name configured in Redline. (The registration code and name is used by the Control Center to communicate with agents.)

Configure auditing	
GWAVA Vertigo can store an au	dit trail in in order to enforce existing business and legal policies.
Decide which sudifies method to use	
becide which addicing method to use	
Use Redline for auditing. If unavailable	, auto-fallback to textfile auditing.
Use Redline for auditing. If unavailable	, shutdown Vertigo.
Use simple textfile auditing only. If una	available, shutdown Vertigo
No Auditing	
Configure Redline auditing settings	
Server DNS name or IP address:	10.1.9.25
Server port:	6900 🔛
Server timeout (ms):	300
Registration details:	
Registration name:	Company Name
Registration code:	12345
Configure textfile auditing settings	
Auditing directory:	C:\Program Files\GWAVA\Vertigo
Maximum logfile size (MB):	10
Minimum free disk space (MB):	1000

The registration may be configured in two different methods: automatic, or manual. If manual: input the registration code and company name, leaving the registration details blank. If automatic: upload the rlcenter.conf file from the Control Center by using the browse button on the 'registration details' line. The correct information will be added automatically.

After filling out registration, Vertigo will register and appear in Redline automatically.

Sett	ings
<u>Ω</u>	Debugging •
	Send logfiles to GWAVA Support
1	Auditing
~	Single User Mode
	Multi-User Mode
~	Show Distribution Lists
~	Show External Entities
~	Show Resources
~	Show Users

Appendix

POSIX, UNC, and NetWare Paths

There are four common file path formats that Redline uses.

- UNC (Universal Naming Convention) is used commonly on Windows and occasionally on NetWare. An Example of UNC is <u>\\servername\volumename\path</u>
- > Mapped Drive format is used exclusively on Windows. An example is driveletter:\path1\path2
- NetWare path format is used exclusively on NetWare. An Example is volumename:\path1\path2, or server/volume:\path1\path2
- > POSIX is used on Linux, but also is used on NetWare by Redline. A POSIX example is /path1/path2

Although Redline gathers the majority of its information via HTTP (and thus is file system independent), there are several circumstances when file paths must be specified (and hence the specific format used is important):

- > The RLAGENT and RLCENTER configuration files specify directory paths for internal Redline directories such as the Database or Reports locations.
- The RLAGENT file may contain PATH specifications for integrated components such as BES, Guinevere, and the API Gateway that do not have HTTP servers.
- Behind the scenes, Redline gathers log file information from many agents. These log files must be located in an accessible location.

On Linux and Windows systems, the rules are fairly straightforward:

- For Linux boxes, all paths must be POSIX format. UNC, mapped drive, or NetWare paths will not function. When first installed, all your paths will be in POSIX, and you must keep them that way.
- For Windows, you may use either mapped drive or UNC format. POSIX, NetWare paths will not function correctly. When first installed, all your paths will be in mapped drive format, and you may alter them between mapped drive and UNC as desired.

On NetWare the situation is a bit more complicated. As long as Redline is installed in its default location, and all of the component agents are on the SYS volume, all should work perfectly. Otherwise:

- Regarding issue 1, if you actually need to change these paths (and in normal operation, even when moving Redline to another volume, this is not needed), POSIX format is required. See below for the POSIX and NetWare path discussion
- Regarding issue 2: POSIX, NetWare, and UNC paths are all accepted in the PATH section. Hence, it is recommended that you use NetWare or UNC paths, and avoid the POSIX path issues described below
- Regarding issue 3: Redline will automatically deal with NetWare Log File paths read from the HTTP server and convert them to POSIX format internally, creating mount points as needed (under sys:\mnt\posix\volumename). So, no extra configuration is normally needed. If you really want to understand more about mount points, read on.

NetWare and POSIX Path Conversion

Consider a standard Netware server, named MJBSERVER, with 2 volumes, SYS and DATA1. Now let's take the example of GroupWise being installed on this server, first on the SYS volume and then the DATA1 volume. For simplicity, we'll assume the GroupWise agents are all installed under a directory right off the root of the volume named GRPWISE.

Start with the GRPWISE directory on SYS, the Netware path is volume:\path, so in this case it is the straightforward SYS:\GRPWISE. POSIX format is /path1/path2. In this case it is simply /grpwise. The only change is to eliminate the volume name and changed to forward slashes.

Other examples of path conversions on SYS would be SYS:\system vs. /system, or SYS:\novell\webacc vs. /novell/webacc. It may be clear that an issue will arise shortly: namely that POSIX paths don't include volume names.

Let us move the GroupWise system to the volume DATA1

The NetWare path will still be straightforward. It will be DATA1:\grpwise. But what is the POSIX path? The way that Novell solved this problem was to allow users and programs to provide a "mapping" between POSIX paths and Netware volumes. More specifically, there is a file (which doesn't exist by default) in SYS:\ETC called PATHTAB which contains entries such as: POSIXPath<space>NetwarePath

You may specify as many as you wish, using any text editor you please. So the first thing an administrator might do is create an entry like this: /mygw<space>DATA:\

One might then expect that I could use /mygw/grpwise to refer in POSIX format to DATA1:\grpwise. Similarly if another directory was off the root of DATA1 called EXAMPLE. I could refer to in NetWare format as DATA1:\example and in POSIX as /mygw/example

There is one complication, that isn't so obvious: NetWare is really using a "mount point" to represent the NetWare volume. **The "mount point" must always exist on SYS**, and can be more or less arbitrarily named (but shouldn't collide with other directories on SYS)

This is a roundabout way of saying that whatever POSIX path specified in PATHTAB must have a corresponding directory structure on SYS. Let's take another step-by-step example.

 Create a POSIX path, and I have a directory named ANOTHEREXAMPLE off my GOOGLE volume. The NetWare path would be GOOGLE:\ANOTHEREXAMPLE
- Open SYS:\etc\pathtab, and add a mount point. Remember that I can name it how I want. In this case I'm going to decide that I want a POSIX path of /mnt/myothervol/anotherexample in the end.
- > Add: /mnt/myothervol<space>GOOGLE:\
- I'll save PATHTAB, and then I will create off SYS the following: SYS:\mnt, SYS:\mnt\othervol. Their contents do not matter. A POSIX compliant program should now be able to use /mnt/myothervol/example and be redirected to GOOGLE:\anotherexample.

How is this relevant to Redline?

- If you must change the internal configuration paths of Redline, they must be valid POSIX paths, constructed as above. If you have integrations that use the PATH entry in RLAGENT.CONF, and for some reason WANT to use POSIX, you can, but you must follow these guidelines.
- Redline handles the issue of log files transparently. All it does is create mount points named sys:\mnt\posix\volume name and create a PATHTAB entry for you. This is done behind the scenes, so normally you don't need to worry about it.

Print this sheet. Fill out the fields for each GroupWise agent that must b	e monitored
	Sheet Number
ServerName	ServerName
NOS Agent Type	NOS Agent Type
HTTPAddress	HTTPAddress
HTTPPort	HTTPPort
HTTPUserName	HTTPUserName
HTTPPassword	HTTPPassword
Logging	Logging
Message Logging	Message Logging
GWCHECK	GWCHECK
ServerName	ServerName
NOS Agent Type	NOS Agent Type
HTTPAddress	HTTPAddress
HTTPPort	HTTPPort
HTTPUserName	HTTPUserName
HTTPPassword	HTTPPassword
Logging	Logging
Message Logging	Message Logging
GWCHECK	GWCHECK
Server Name - File Server Name NOS - Windows, Linux, Netware HTTPAddress - IP Address HTTPPort - TCP Port of agent's HTTP server HTTPPassword - Password for agent's HTTP server Logging - Turmed Logging on, set to Verbose. Enter Yes or No GWCHECK - Yes or No, valid only for POA	Agent Type - MTA, POA, GWIA, WebAccess, Messenger, Messenger Archive, API Gateway HTTPUsername - Username for accessing agent's HTTP server Message Logging - Yes or No, valid only for MTA The RLAGENT configuration file needs this information for each component.

Installation Worksheet

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