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About This Guide

This Novell GroupWise Troubleshooting 3 Guide provides diagrams to help you understand the structure and functioning of your GroupWise system. The guide is divided into the following sections:

- “Message Flow Diagrams” on page 11
- “Directory Structure Diagrams” on page 55

Other sources of troubleshooting assistance include:

- Novell Support and Knowledgebase (http://www.novell.com/support)
  To search the GroupWise documentation from the Novell Support Web site, click Advanced Search, select Documentation in the Search In drop-down list, select GroupWise in the Products drop-down list, type the search string, then click Search.
- GroupWise Support Community (http://www.novell.com/support/products/groupwise)
- GroupWise Cool Solutions (http://www.novell.com/communities/coolsolutions/gwmag)

Audience

This guide is intended for network administrators who install and administer GroupWise.

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Additional Documentation

For additional GroupWise documentation, see the following guides at the GroupWise 8 Documentation Web site (http://www.novell.com/documentation/gw8):

- Installation Guide
- Administration Guide
- Multi-System Administration Guide
- Interoperability Guide
- Troubleshooting 1: Error Messages
- Troubleshooting 2: Solutions to Common Problems
- GroupWise Client User Guides
- GroupWise Client Frequently Asked Questions (FAQ)
This part of *Troubleshooting 3: Message Flow and Directory Structure* helps you understand how messages travel between GroupWise users and how administrative updates to GroupWise databases occur.

- Chapter 1, “Message Delivery in the Local Post Office,” on page 13
- Chapter 2, “Message Delivery to a Different Post Office,” on page 19
- Chapter 3, “Message Delivery to a Different Domain,” on page 25
- Chapter 4, “Message Delivery to and from the Internet,” on page 33
- Chapter 5, “Message Delivery through a Modem Connection,” on page 47
- Chapter 6, “Administrative Database Update,” on page 53
1 Message Delivery in the Local Post Office

The GroupWise 8 client always uses client/server access to the post office but it can interact with the POA for the post office in different ways. For a review, see “Changing GroupWise Modes” in “Getting Organized” in the GroupWise 8 Windows Client User Guide.

- Section 1.1, “Online Mode,” on page 13
- Section 1.2, “Caching Mode,” on page 14
- Section 1.3, “Remote Mode,” on page 17

1.1 Online Mode

This message flow diagram illustrates how a GroupWise message travels from one user to another in the local post office when the client and POA communicate by way of TCP/IP and the users are accessing their Online mailboxes.

*Figure 1-1  Message Flow in Online Mode*
### Table 1-1  Message Flow in Online Mode Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Sender</td>
<td><img src="sender.png" alt="Sender Icon" /></td>
<td>The user sends a message to recipients in the same post office. The access mode setting for the post office is Client/Server Only.</td>
</tr>
<tr>
<td>2. Sender's GroupWise Client</td>
<td><img src="sender_client.png" alt="Sender's Client Icon" /></td>
<td>The GroupWise client communicates with the POA by way of TCP/IP.</td>
</tr>
<tr>
<td>3. POA for Local Post Office</td>
<td><img src="poa.png" alt="POA Icon" /></td>
<td>The POA receives the message from the GroupWise client and performs the following actions for the sender:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (msgnnn.db) assigned to the sender.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender's mailbox as a sent item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The POA also performs the following actions for the recipient:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in each recipient’s user database (userxxx.db) to the message in the message database (msgnnn.db) so the new message appears in the recipient's mailbox.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Updates the message in the message database (msgnnn.db) with a Delivered status for each recipient.</td>
</tr>
<tr>
<td>4. POA for Local Post Office</td>
<td><img src="poa.png" alt="POA Icon" /></td>
<td>The POA communicates to the GroupWise client by way of TCP/IP that a new message has arrived.</td>
</tr>
<tr>
<td>5. Recipient's GroupWise Client</td>
<td><img src="recipient.png" alt="Recipient Icon" /></td>
<td>The Notify component of the recipient’s GroupWise client notifies the recipient that a new message has arrived.</td>
</tr>
<tr>
<td>6. Recipient</td>
<td><img src="recipient.png" alt="Recipient Icon" /></td>
<td>Each recipient opens the message in the GroupWise client.</td>
</tr>
<tr>
<td>7. Recipient's GroupWise Client</td>
<td><img src="recipient.png" alt="Recipient Icon" /></td>
<td>Each recipient’s GroupWise client communicates the Opened status to the POA by way of TCP/IP.</td>
</tr>
<tr>
<td>8. POA for Local Post Office</td>
<td><img src="poa.png" alt="POA Icon" /></td>
<td>The POA receives the Opened status from the GroupWise client and updates the message in the message database with the Opened status for each recipient who opens the message.</td>
</tr>
<tr>
<td>9. POA for Local Post Office</td>
<td><img src="poa.png" alt="POA Icon" /></td>
<td>The POA communicate the Opened status to the sender's GroupWise client by way of TCP/IP.</td>
</tr>
<tr>
<td>10. Sender</td>
<td><img src="sender.png" alt="Sender Icon" /></td>
<td>When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays a status of Delivered for each recipient (and possibly Opened as well if the recipient has opened the message).</td>
</tr>
</tbody>
</table>

### 1.2 Caching Mode

This message flow diagram illustrates how a GroupWise message travels from one user to another in the local post office when the users are accessing their Caching mailboxes.
**Figure 1-2  Message Flow in Caching Mode**

**Table 1-2  Message Flow in Caching Mode Stages**

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sender</td>
<td>🧑‍💼</td>
<td>The user sends a message to recipients in the same post office. The user is in Caching mode.</td>
</tr>
<tr>
<td>2 Sender's GroupWise Client</td>
<td>🧑‍💼</td>
<td>The GroupWise client updates the sender's Caching mailbox (\novell\groupwise\gwxxxxxx\rofdata) by performing the following actions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (rofdata\msg.db) in the Caching mailbox. This database is local equivalent of the msgnnn.db database in the post office.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the sender's user database (rofdata\user.db) in the Caching mailbox so the message appears in the sender's mailbox as a sent item. This database is the local equivalent of the userxxx.db database in the post office.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places attachments larger than 2 KB in the rofdata subdirectory in the Caching mailbox and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.) There is no local equivalent to the offiles subdirectory in the post office, so attachments are placed directly in the rofdata subdirectory in the Caching mailbox.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places a copy of the message in the rofdata\wpcsin\1 priority subdirectory to await the next connection to the POA.</td>
</tr>
<tr>
<td>3 Sender's GroupWise Client</td>
<td>🧑‍💼</td>
<td>In Caching mode, sending a message always initiates an immediate connection with the POA in order to send the message. The GroupWise client communicates the message to the POA and deletes the copy in the rofdata\wpcsin\1 priority subdirectory when the POA has processed the message.</td>
</tr>
<tr>
<td>Stage</td>
<td>Icon</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>POA for Local Post Office</td>
<td>🔄</td>
<td>The POA receives the message from the GroupWise client and performs the following actions for the sender to update the sender's Online mailbox:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (<em>msgnnn.db</em>) assigned to the sender in the post office.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the sender's user database (<em>userxxx.db</em>) in the post office.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places attachments larger than 2 KB in one of the <em>post_office\offiles\fd0-F6</em> subdirectories in the post office and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td>The POA also performs the following actions for the recipients to update their Online mailboxes:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in each recipient's user database (<em>userxxx.db</em>) to the message in the message database (<em>msgnnn.db</em>) in the post office so that the new message appears in each recipient's mailbox.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Updates the message in the message database (<em>msgnnn.db</em>) in the post office with a Delivered status for the recipients.</td>
</tr>
<tr>
<td>POA for Local Post Office</td>
<td>🔄</td>
<td>Because the recipients are also in Caching mode, they do not receive immediate notification that a new message has arrived in their Online mailboxes. Based on the <em>Send/Retrieve All Marked Accounts Every nn Minutes</em> option under Accounts &gt; Account Options &gt; General, each recipient's GroupWise client sends a request to the POA for items that have arrived in the recipient's Online mailbox since the last connection with the POA.</td>
</tr>
<tr>
<td>POA for Local Post Office</td>
<td>🔄</td>
<td>The POA responds by sending information to update each recipient's Caching mailbox and communicates to the GroupWise client that a new message has arrived.</td>
</tr>
<tr>
<td>Recipient's GroupWise Client</td>
<td>🔄</td>
<td>Each recipient's GroupWise client updates the recipient's Caching mailbox by performing the following actions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (<em>rofdata\msg.db</em>) in the recipient's Caching mailbox.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the recipient's user database (<em>rofdata\user.db</em>) to the message in the message database (<em>rofdata\msg.db</em>) so the new message appears in the recipient's Caching mailbox.</td>
</tr>
<tr>
<td>Recipient's GroupWise Client</td>
<td>🔄</td>
<td>The Notify component of each recipient's GroupWise client notifies the recipient that a new message has arrived.</td>
</tr>
<tr>
<td>Recipient</td>
<td>🔄</td>
<td>Each recipient opens the message in the GroupWise client.</td>
</tr>
<tr>
<td>Recipient's GroupWise Client</td>
<td>🔄</td>
<td>Each recipient's GroupWise client generates an Opened status and places it in the rofdata\wpcsin\1 priority subdirectory to await the next connection with the POA.</td>
</tr>
</tbody>
</table>
Before you can use Remote mode, you must create a Remote mailbox on your computer and have a connection to your master GroupWise system. See Chapter 5, “Message Delivery through a Modem Connection,” on page 47.
2 Message Delivery to a Different Post Office

The MTA handles message transfer between post offices.

- Section 2.1, “TCP/IP Link Open: Transfer between Post Offices Successful,” on page 19
- Section 2.2, “TCP/IP Link Closed: Transfer between Post Offices Delayed,” on page 22

The message flow diagrams in GroupWise 8 Troubleshooting 3: Message Flow and Directory Structure focus on TCP/IP links because they are the most common and convenient (unless you have a post office and a domain on the same server). For diagrams that include mapped/UNC links, see GroupWise 6.5 Troubleshooting 3: Message Flow and Directory Structure (http://www.novell.com/documentation/gw65/gw65_tsh3/data/a4ehibh.html). For an explanation of link types and link protocols, see “Understanding Link Configuration” in “Domains” in the GroupWise 8 Administration Guide.

2.1 TCP/IP Link Open: Transfer between Post Offices Successful

This message flow diagram illustrates how a GroupWise message travels from one user to another between post offices in the same domain when the TCP/IP link between the post office and the domain is open.

Figure 2-1  Message Flow When the TCP/IP Link is Open
### Table 2-1 Message Flow When the TCP/IP Link is Open Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1 Sender | 🧵 | The user sends a message to recipients in a different post office in the same domain.  
In this diagram, the access mode setting in the local post office is Client/Server Only. |
| 2 Sender’s GroupWise Client | 🌏 | The GroupWise client communicates the message to the POA by way of TCP/IP. |
| 3 POA for Sender’s Post Office | 🌐 | The POA receives the message from the GroupWise client and performs the following actions for the sender:  
- Adds the message to the message database (msgnnn.db) assigned to the sender.  
- Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.  
- Places attachments larger than 2 KB in one of the `post_office\offiles\f0-F6` subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)  
- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed. |
| 4 POA for Sender’s Post Office | 🌐 | The POA then communicates the message to the MTA by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful.  
To see what happens if the TCP/IP link to the MTA is closed, see Section 2.2, “TCP/IP Link Closed: Transfer between Post Offices Delayed,” on page 22. |
| 5 MTA for Local Domain | 🌐 | The MTA receives the message and places it into the MTA “in progress” (gwinprog) queue. |
| 6 MTA for Local Domain | 🌐 | The MTA then communicates the message to the POA in the recipient’s post office by way of TCP/IP. When the transmission is successful, the MTA deletes the message from the MTA “in progress” queue.  
If the TCP/IP link to the recipient’s post office is closed, the message is placed in the closed post office’s holding queue in the MTA’s mslocal directory for later transfer. The resulting message flow is parallel to what occurs when a domain is closed. See Section 3.2, “TCP/IP Link Closed: Transfer between Domains Delayed,” on page 28 for a similar message flow that illustrates how messages to closed locations are handled. |
POA for Recipient’s Post Office

When the POA receives the new message from the MTA, it places it into the MTA output queue in the post office (wpcsout\ofs\0-7) on behalf of the MTA. Then, the POA for the recipient’s post office performs the following actions:

- Adds the message to the message database (msgnnn.db) corresponding to the one assigned to the sender.
- Creates a pointer in the recipient’s user database (userxxx.db) so the new message appears in the recipient’s mailbox and updates the notification information in the user database so the recipient can be notified of the message.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a Delivered status message in the appropriate priority 0-7 subdirectory of the MTA input queue in the recipient’s post office. It also communicates the Delivered status message directly to the MTA by way of TCP/IP. When that transmission is successful, the copy in the MTA input queue is deleted.

POA for Local Post Office

The POA communicates to the GroupWise client by way of TCP/IP that a new message has arrived.

Recipient’s GroupWise Client

The Notify component of the recipient’s GroupWise client notifies the recipient that a new message has arrived.

Recipient

Each recipient opens the message in the GroupWise client.

Recipient’s GroupWise Client

Each recipient’s GroupWise client communicates the Opened status message to the POA by way of TCP/IP.

POA for Recipient’s Post Office

The POA for the recipient’s post office communicates the status message to the MTA by way of TCP/IP.

MTA for Local Domain

The MTA places the status message into the MTA “in progress” (gwinprog) queue.

MTA for Local Domain

The MTA communicates the status message to the POA for the sender’s post office by way of TCP/IP.

POA in Sender’s Post Office

The POA for the sender’s post office updates the sender’s message database (msgnnn.db) with the Delivered status information (and possibly Opened as well if the recipient has opened the message).

POA for Local Post Office

The POA communicates the status to the sender’s GroupWise client by way of TCP/IP.

Sender

When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays a status of Delivered for each recipient (and possibly Opened as well if the recipient has opened the message).
2.2 **TCP/IP Link Closed: Transfer between Post Offices Delayed**

This message flow diagram illustrates how a GroupWise message travels from one user to another between post offices in the same domain when the TCP/IP link between the post office and the domain is closed.

*Figure 2-2  Message Flow When the TCP/IP Link is Closed*

![Message Flow Diagram](image)

*Table 2-2  Message Flow When the TCP/IP Link is Closed Stages*

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1 Sender | ![Icon](image) | The user sends a message to recipients in a different post office in the same domain.  
In this diagram, the access mode setting in the local post office is Client/Server Only. |
| 2 Sender’s GroupWise Client | ![Icon](image) | The GroupWise client communicates the message to the POA by way of TCP/IP. |
POA for Sender’s Post Office

The POA receives the message from the GroupWise client and performs the following actions for the sender:

- Adds the message to the message database (msgnnn.db) assigned to the sender.
- Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed.

The POA then attempts to communicate the message to the MTA by way of TCP/IP, but the MTA does not respond. The POA leaves the copy of the message in the MTA input queue and periodically attempts to contact the MTA. When the MTA responds again, the POA communicates the message and deletes the copy in the MTA input queue after the TCP/IP transmission to the MTA is successful.

MTA for Local Domain

The MTA receives the message and places it into the MTA “in progress” (gwinprog) queue.

The MTA then communicates the message to the POA in the recipient’s post office by way of TCP/IP. When the transmission is successful, the MTA deletes the message from the MTA “in progress” (gwinprog) queue.

If the TCP/IP link to the recipient’s post office is closed, the message is placed in the closed post office’s holding queue in the MTA’s mslocal directory for later transfer. The resulting message flow is parallel to what occurs when a domain is closed. For a similar message flow that illustrates how messages to closed locations are handled, see Section 3.2, “TCP/IP Link Closed: Transfer between Domains Delayed,” on page 28.

POA for Recipient’s Post Office

When it receives the new message, the POA for the recipient’s post office performs the following actions:

- Adds the message to the message database (msgnnn.db) corresponding to the one assigned to the sender.
- Creates a pointer in the recipient’s user database (userxxx.db) so the new message appears in the recipient’s mailbox and updates the notification information in the user database so the recipient can be notified of the message.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a Delivered status message in the appropriate priority 0-7 subdirectory of the MTA input queue in the recipient’s post office. It also communicates the Delivered status message directly to the MTA by way of TCP/IP and when that transmission is successful, the copy in the MTA input queue is deleted.
<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POA for Local Post Office</td>
<td>![POA]</td>
<td>The POA communicates to the GroupWise client by way of TCP/IP that a new message has arrived.</td>
</tr>
<tr>
<td>Recipient's GroupWise Client</td>
<td>![Recipient]</td>
<td>The Notify component of the recipient’s GroupWise client notifies the recipient that a new message has arrived.</td>
</tr>
<tr>
<td>Recipient</td>
<td>![Recipient]</td>
<td>Each recipient opens the message in the GroupWise client.</td>
</tr>
<tr>
<td>Recipient's GroupWise Client</td>
<td>![Recipient]</td>
<td>Each recipient’s GroupWise client communicates the Opened status message to the POA by way of TCP/IP.</td>
</tr>
<tr>
<td>POA for Recipient's Post Office</td>
<td>![POA]</td>
<td>The POA for the recipient’s post office communicates the status message to the MTA by way of TCP/IP.</td>
</tr>
<tr>
<td>MTA for Local Domain</td>
<td>![MTA]</td>
<td>The MTA places the status message into the MTA “in progress” (<code>gwinprog</code>) queue.</td>
</tr>
<tr>
<td>MTA for Local Domain</td>
<td>![MTA]</td>
<td>The MTA communicates the status message to the POA for the sender’s post office by way of TCP/IP.</td>
</tr>
<tr>
<td>POA in Sender's Post Office</td>
<td>![POA]</td>
<td>The POA for the sender’s post office updates the sender’s message database (<code>msgnnn.db</code>) with the Delivered status information (and possibly Opened as well if the recipient has opened the message).</td>
</tr>
<tr>
<td>POA for Local Post Office</td>
<td>![POA]</td>
<td>The POA communicates the Opened status to the sender’s GroupWise client by way of TCP/IP.</td>
</tr>
<tr>
<td>Sender</td>
<td>![Sender]</td>
<td>When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays a status of Delivered for each recipient (and possibly Opened as well if the recipient has opened the message).</td>
</tr>
</tbody>
</table>
3 Message Delivery to a Different Domain

The MTA handles message transfer between domains.

- Section 3.1, “TCP/IP Link Open: Transfer between Domains Successful,” on page 25
- Section 3.2, “TCP/IP Link Closed: Transfer between Domains Delayed,” on page 28

The message flow diagrams in *GroupWise 8 Troubleshooting 3: Message Flow and Directory Structure* focus on TCP/IP links because they are the most common and convenient (unless you have two domains on the same server). For diagrams that include mapped/UNC links, see *GroupWise 6.5 Troubleshooting 3: Message Flow and Directory Structure* (http://www.novell.com/documentation/gw65/gw65_tsh3/data/a4ehibh.html). For an explanation of link types and link protocols, see “Understanding Link Configuration” in “Domains” in the *GroupWise 8 Administration Guide*.

3.1 TCP/IP Link Open: Transfer between Domains Successful

This message flow diagram illustrates how a GroupWise message travels from one user to another when the domains are connected by a TCP/IP link and the link is open.

*Figure 3-1 Message Flow When the TCP/IP Link is Open*
Table 3-1 Message Flow When the TCP/IP Link is Open Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Sender</td>
<td></td>
<td>The user sends a message to recipients in a post office in a different domain. In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td><strong>2</strong> Sender’s GroupWise Client</td>
<td></td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
<tr>
<td><strong>3</strong> POA for Sender’s Post Office</td>
<td></td>
<td>The POA receives the message from the GroupWise client and performs the following actions for the sender:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Adds the message to the message database (msgnnn.db) assigned to the sender.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed.</td>
</tr>
<tr>
<td><strong>4</strong> POA for Sender’s Post Office</td>
<td></td>
<td>The POA then communicates the message to the MTA for the sender’s domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To see what would happen if the TCP/IP link to the MTA is closed, see Section 2.2, “TCP/IP Link Closed: Transfer between Post Offices Delayed,” on page 22.</td>
</tr>
<tr>
<td><strong>5</strong> MTA for Sender’s Domain</td>
<td></td>
<td>The MTA for the sender’s domain receives the message and places it into the MTA “in progress” (gwinprog) queue.</td>
</tr>
<tr>
<td><strong>6</strong> MTA for Sender’s Domain</td>
<td></td>
<td>The MTA for the sender’s domain then communicates the message to the MTA for the recipient’s domain by way of TCP/IP. If the TCP/IP link to the recipient’s domain is closed, the message is placed in the closed domain’s holding queue in the MTA’s mlocal directory for later transfer. See Section 3.2, “TCP/IP Link Closed: Transfer between Domains Delayed,” on page 28.</td>
</tr>
<tr>
<td><strong>7</strong> MTA for Recipient’s Domain</td>
<td></td>
<td>The MTA for the recipient’s domain receives the message and places it into the MTA “in progress” (gwinprog) queue.</td>
</tr>
<tr>
<td><strong>8</strong> MTA for Recipient’s Domain</td>
<td></td>
<td>The MTA for the recipient’s domain then communicates the message to the POA in the recipient’s post office by way of TCP/IP.</td>
</tr>
</tbody>
</table>
When it receives the new message, the POA for the recipient's post office performs the following actions:

- Adds the message to the message database (msgnnn.db) corresponding to the one assigned to the sender.

- Creates a pointer in the recipient's user database (userxxx.db) so the new message appears in the recipient's mailbox and updates the notification information in the user database so the recipient can be notified of the message.

- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)

- Creates a Delivered status message in the appropriate priority 0-7 subdirectory of the MTA input queue in the recipient's post office. It also communicates the Delivered status message directly to the MTA by way of TCP/IP and when that transmission is successful, the copy in the MTA input queue is deleted.

The POA for the recipient's post office communicates to the GroupWise client by way of TCP/IP that a new message has arrived.

The Notify component of the recipient's GroupWise client notifies the recipient that a new message has arrived.

Each recipient opens the message in the GroupWise client.

Each recipient's GroupWise client communicates the Opened status message to the POA by way of TCP/IP.

The POA for the recipient's post office communicates the status message to the MTA for the recipient's domain by way of TCP/IP.

The MTA for the recipient's domain places the status message into the MTA “in progress” (gwinprog) queue.

The MTA for the recipient’s domain communicates the status message to the MTA for the sender's domain by way of TCP/IP.

The MTA for the sender’s domain places the status message into the MTA “in progress” (gwinprog) queue.

The MTA for the sender’s domain communicates the status message to the POA for the sender’s post office by way of TCP/IP.
3.2 TCP/IP Link Closed: Transfer between Domains Delayed

This message flow diagram illustrates how a GroupWise message travels from one user to another when the domains are connected by a TCP/IP link and the link is closed.

Figure 3-2  Message Flow When the TCP/IP Link is Closed

Table 3-2 Message Flow When the TCP/IP Link is Closed Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sender</td>
<td></td>
<td>The user sends a message to recipients in a post office in a different domain.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td>2 Sender’s GroupWise Client</td>
<td></td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
</tbody>
</table>
The POA receives the message from the GroupWise client and performs the following actions for the sender:

- Adds the message to the message database (msgnnn.db) assigned to the sender.
- Creates a pointer in the sender's user database (userxxx.db) so the message appears in the sender's mailbox as a sent item.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender's post office, in case the TCP/IP link to the MTA is currently closed.

The POA then communicates the message to the MTA for the sender's domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful.

To see what would happen if the TCP/IP link to the MTA is closed, see Section 2.2, “TCP/IP Link Closed: Transfer between Post Offices Delayed,” on page 22.

The MTA for the sender's domain receives the message and places it into the MTA “in progress” (gwinprog) queue.

The MTA for the sender's domain then attempts to communicate the message to the MTA for the recipient's domain by way of TCP/IP, but the recipient MTA does not respond. Therefore, the MTA stores the message in its holding queue for the recipient's domain in the mshold directory.

When the MTA in the recipient's domain responds again, the MTA for the sender's domain transfers the delayed message from the domain holding queue to the MTA in the recipient's domain by way of TCP/IP.

The MTA for the recipient's domain receives the message and places it into the MTA “in progress” (gwinprog) queue.

The MTA for the recipient's domain then communicates the message to the POA in the recipient's post office by way of TCP/IP.
When it receives the new message, the POA for the recipient’s post office performs the following actions:

- Adds the message to the message database (msgnnn.db) corresponding to the one assigned to the sender.
- Creates a pointer in the recipient’s user database (userxxx.db) so the new message appears in the recipient’s mailbox and updates the notification information in the user database so the recipient can be notified of the message.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a Delivered status message in the appropriate priority 0-7 subdirectory of the MTA input queue in the recipient’s post office. It also communicates the Delivered status message directly to the MTA by way of TCP/IP and when that transmission is successful, the copy the MTA input queue is deleted.

The POA for the recipient’s post office communicates to the GroupWise client by way of TCP/IP that a new message has arrived.

The Notify component of the recipient’s GroupWise client notifies the recipient that a new message has arrived.

Each recipient opens the message in the GroupWise client.

Each recipient’s GroupWise client communicates the Opened status message to the POA by way of TCP/IP.

The POA for the recipient’s post office communicates the status message to the MTA for the recipient’s domain by way of TCP/IP.

The MTA for the recipient’s domain places the status message into the “in progress” (gwinprog) queue.

The MTA for the recipient’s domain communicates the status message to the MTA for the sender’s domain by way of TCP/IP.

The MTA for the sender’s domain places the status message into the MTA “in progress” (gwinprog) queue.

The MTA for the sender’s domain communicates the status message to the POA for the sender’s post office by way of TCP/IP.
The POA for the sender’s post office updates the sender’s message database *(msgnnn.db)* with the Delivered status information (and possibly Opened as well if the recipient has opened the message).

The POA for the sender’s post office communicates the status to the sender’s GroupWise client by way of TCP/IP.

When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays a status of Delivered for each recipient (and possibly Opened as well if the recipient has opened the message).
4 Message Delivery to and from the Internet

- Section 4.1, “TCP/IP Link: Outbound Transfer to the Internet Successful,” on page 33
- Section 4.2, “TCP/IP Link: Outbound Transfer to the Internet Delayed or Unsuccessful,” on page 35
- Section 4.3, “Mapped/UNC Link: Outbound Transfer to the Internet Successful,” on page 38
- Section 4.4, “Mapped/UNC Link: Outbound Transfer to the Internet Delayed or Unsuccessful,” on page 41
- Section 4.5, “TCP/IP Link: Inbound Transfer from the Internet Successful,” on page 43
- Section 4.6, “Mapped/UNC Link: Inbound Transfer from the Internet Successful,” on page 45

4.1 TCP/IP Link: Outbound Transfer to the Internet Successful

This message flow diagram shows how outbound messages travel through the GroupWise directory structure to the Internet when there is a TCP/IP link between the MTA and the Internet Agent and when the Internet Agent can communicate successfully with the Internet host to which the message is addressed.

*Figure 4-1  Message Flow When the TCP/IP Link is Open*
### Table 4-1  Message Flow When the TCP/IP Link is Open Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sender</strong></td>
<td>![User Icon]</td>
<td>The user sends a message to recipients across the Internet by providing their Internet addresses.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td><strong>Sender’s GroupWise Client</strong></td>
<td>![GroupWise Icon]</td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
<tr>
<td><strong>POA for Sender’s Post Office</strong></td>
<td>![POA Icon]</td>
<td>The POA receives the message from the GroupWise client and performs the following actions for the sender:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Adds the message to the message database (msgnnn.db) assigned to the sender.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed.</td>
</tr>
<tr>
<td><strong>POA for Sender’s Post Office</strong></td>
<td>![POA Icon]</td>
<td>The POA then communicates the message to the MTA for the sender’s domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>![MTA Icon]</td>
<td>The MTA for the sender’s domain receives the message and places it into the MTA “in progress” (gwinprog) queue.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>![MTA Icon]</td>
<td>The MTA determines that the message must be sent out across the Internet. Because there is a TCP/IP link between the MTA and the Internet Agent, the MTA creates a copy of the message in the appropriate priority 0-7 subdirectory of the Internet Agent hold queue (mslocal\mshold\gatewayx\0-7), in case the TCP/IP link to the Internet Agent is currently closed.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>![MTA Icon]</td>
<td>The MTA then communicates the message to the Internet Agent for the sender’s domain by way of TCP/IP, and deletes the copy in the Internet Agent holding queue because the TCP/IP transfer to the Internet Agent was successful.</td>
</tr>
<tr>
<td><strong>Internet Agent for Sender’s Domain</strong></td>
<td>![Internet Agent Icon]</td>
<td>The Internet Agent receives the message and places it into the MTA output queue (wpcsout\gwid\0-7) on behalf of the MTA. The MTA output queue is the Internet Agent input queue.</td>
</tr>
</tbody>
</table>
4.2 TCP/IP Link: Outbound Transfer to the Internet Delayed or Unsuccessful

This message flow diagram shows how outbound messages travel through the GroupWise directory structure to the Internet when there is a TCP/IP link between the MTA and the Internet Agent and when the Internet Agent cannot communicate successfully with the Internet host to which the message is addressed.
Table 4-2  Message Flow When the TCP/IP Link is Closed Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sender</td>
<td>📩</td>
<td>The user sends a message to recipients across the Internet by providing their Internet addresses.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td>2 Sender's GroupWise Client</td>
<td>🌐</td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
<tr>
<td>3 POA for Sender's Post Office</td>
<td>💼</td>
<td>The POA receives the message from the GroupWise client and performs the following actions for the sender:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (msgnnn.db) assigned to the sender.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed.</td>
</tr>
<tr>
<td>4 POA for Sender's Post Office</td>
<td>💼</td>
<td>The POA then communicates the message to the MTA for the sender's domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful.</td>
</tr>
</tbody>
</table>
MTA for Sender's Domain
The MTA for the sender's domain receives the message and places it into the MTA "in progress" (gwinprog) queue.

MTA for Sender's Domain
The MTA determines that the message must be sent out across the Internet. Because there is a TCP/IP link between the MTA and the Internet Agent, the MTA creates a copy of the message in the appropriate priority 0-7 subdirectory of the Internet Agent hold queue (mslocal\mshold\gateway\0-7), in case the TCP/IP link to the Internet Agent is currently closed.

MTA for Sender's Domain
The MTA then communicates the message to the Internet Agent for the sender's domain by way of TCP/IP, and deletes the copy in the Internet Agent holding queue because the TCP/IP transfer to the Internet Agent was successful.

Internet Agent for Sender's Domain
The Internet Agent receives the message and places it into the MTA output queue (wpcsout\gwid\0-7) on behalf of the MTA. The MTA output queue is the Internet Agent input queue.

Internet Agent for Sender's Domain
The Internet Agent scans its input queues according to the Idle Sleep Duration setting on the Gateway Time Settings page of the Internet Agent object in ConsoleOne. The Internet Agent picks up the file in binary-encrypted format from the wpcsout\gwid\0-7 directory and converts it. The Internet Agent encodes the message in MIME format with the appropriate encoding scheme.

When the message file is built, the Internet Agent saves it with S as the first character of the filename and places the message file in the domain\wpgate\gwia\send directory for processing.

Internet Agent for Sender's Domain
While the Internet Agent is processing the message file in the send directory, it changes the first character of the filename to P. When processing is completed, the Internet Agent sends the message to the destination host across the Internet.

Internet Agent for Sender's Domain
If the Internet Agent does not receive a 250 OK SMTP reply code from the destination Internet host, the Internet Agent renames the P.*. file back to S.*. and creates a file named R.*. that records the SMTP reply codes (error messages) in the wpgate\gwia\result directory. After the Internet Agent completes the communication with the destination host, it moves the S.*. message file from the send directory to the result directory along with the corresponding R.*. file.

Internet Agent for Sender's Domain
The Internet Agent analyzes the files in the result directory, comparing the SMTP reply codes in the R.*. file.

If the R.*. file has a temporary transmission error (meaning it has a 400-level SMTP reply code such as 450 Host Down), the Internet Agent moves the S.*. message file to the defer directory. Continue with Stage 4

If the R.*. file has a fatal error (meaning it has a 500-level SMTP reply code such as 550 Host Unknown), the Internet Agent deletes the S.*. file because it is undeliverable. Skip to Stage 5

Internet Agent for Sender's Domain
Based on the Intervals to the Retry a Deferred Message setting on the SMTP/MIME Settings property page of the Internet Agent object in ConsoleOne, the Internet Agent requeues the S.*. message file back into the send directory for reprocessing.
4.3 Mapped/UNC Link: Outbound Transfer to the Internet Successful

This message flow diagram shows how outbound messages travel through the GroupWise directory structure to the Internet when there is a mapped/UNC link between the MTA and the Internet Agent and when the Internet Agent can communicate successfully with the Internet host to which the message is addressed.
Table 4-3  Message Flow When the Mapped Link is Open Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sender</td>
<td>The user sends a message to recipients across the Internet by providing their Internet addresses. In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td>2</td>
<td>Sender’s GroupWise Client</td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
</tbody>
</table>
| 3     | POA for Sender’s Post Office | The POA receives the message from the GroupWise client and performs the following actions for the sender:  
  - Adds the message to the message database (msgnnn.db) assigned to the sender.  
  - Creates a pointer in the sender’s user database (userxxx.db) so the message appears in the sender’s mailbox as a sent item.  
  - Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)  
  - Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed. |
<p>| 4     | POA for Sender’s Post Office | The POA then communicates the message to the MTA for the sender’s domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful. |</p>
<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>MTA</td>
<td>The MTA for the sender’s domain receives the message and places it into the MTA “in progress” (gwinprog) queue.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>MTA</td>
<td>The MTA determines that the message must be sent out across the Internet. Because there is a mapped/UNC link between the MTA and the Internet Agent, the MTA places the message in its output queue in the Internet Agent’s gateway directory (domain\wpgate\gwia\wpcsout\gwid\0-7).</td>
</tr>
<tr>
<td><strong>Internet Agent for Sender’s Domain</strong></td>
<td>GWIA</td>
<td>The Internet Agent scans its input queues according to the <em>Idle Sleep Duration</em> setting on the Gateway Time Settings page of the Internet Agent object in ConsoleOne. The Internet Agent picks up the file in binary-encrypted format from the wpcsout\gwid\0-7 directory and converts it. The Internet Agent encodes the message in MIME format with the appropriate encoding scheme. When the message file is built, the Internet Agent saves it with S as the first character of the filename and places the message file in the domain\wpgate\gwia\send directory for processing.</td>
</tr>
<tr>
<td><strong>Internet Agent for Sender’s Domain</strong></td>
<td>GWIA</td>
<td>While the Internet Agent is processing the message file in the send directory, it changes the first character of the filename to P. When processing is completed, the Internet Agent sends the message to the destination host across the Internet.</td>
</tr>
<tr>
<td><strong>Internet Agent for Sender’s Domain</strong></td>
<td>GWIA</td>
<td>If the Internet Agent receives a 250 OK SMTP reply code from the destination Internet host, it places a Transferred status message into the input queue of the MTA for the sender’s domain.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>MTA</td>
<td>Because of its mapped/UNC link with the Internet Agent, the MTA regularly scans its input queue in the Internet Agent’s gateway directory based on the <em>Scan Cycle</em> setting on the Agent Settings page of the MTA object in ConsoleOne. It picks up the Transferred status messages and transfers them to its “in progress” (gwinprog) directory for processing.</td>
</tr>
<tr>
<td><strong>MTA for Sender’s Domain</strong></td>
<td>MTA</td>
<td>The MTA for the sender’s domain communicates the Transferred status messages to the POA for the sender’s post office by way of TCP/IP.</td>
</tr>
<tr>
<td><strong>POA for Sender’s Post Office</strong></td>
<td>POA</td>
<td>The POA for the sender’s post office updates the sender’s message database (msgnnn.db) with the Transferred status information.</td>
</tr>
<tr>
<td><strong>POA for Sender’s Post Office</strong></td>
<td>POA</td>
<td>The POA for the sender’s post office communicates the Transferred status to the sender’s GroupWise client by way of TCP/IP.</td>
</tr>
<tr>
<td><strong>Sender</strong></td>
<td></td>
<td>When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays the Transferred status because the Internet Agent was able to send it successfully.</td>
</tr>
</tbody>
</table>
4.4 Mapped/UNC Link: Outbound Transfer to the Internet Delayed or Unsuccessful

This message flow diagram shows how outbound messages travel through the GroupWise directory structure to the Internet when there is a mapped/UNC link between the MTA and the Internet Agent and when the Internet Agent cannot communicate successfully with the Internet host to which the message is addressed.

Figure 4-4  Message Flow When the Mapped Link is Closed

Table 4-4  Message Flow When the Mapped Link is Closed Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sender</td>
<td>🔄</td>
<td>The user sends a message to recipients across the Internet by providing their Internet addresses.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In this diagram, the access mode setting for the local post office is Client/Server Only.</td>
</tr>
<tr>
<td>2 Sender's GroupWise Client</td>
<td>🔄</td>
<td>The GroupWise client communicates the message to the POA by way of TCP/IP.</td>
</tr>
</tbody>
</table>
### Stage Icon Description

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
</table>
| **POA for Sender's Post Office** | ![POA Icon] | The POA receives the message from the GroupWise client and performs the following actions for the sender:  
- Adds the message to the message database (`msgnnn.db`) assigned to the sender.  
- Creates a pointer in the sender’s user database (`userdata.db`) so the message appears in the sender’s mailbox as a sent item.  
- Places attachments larger than 2 KB in one of the `post_office\offiles\fd0-F6` subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)  
- Creates a copy of the message in the appropriate priority 0-7 subdirectory of the MTA input queue in the sender’s post office, in case the TCP/IP link to the MTA is currently closed. |
| **POA for Sender's Post Office** | ![POA Icon] | The POA then communicates the message to the MTA for the sender’s domain by way of TCP/IP, and deletes the copy in the MTA input queue because the TCP/IP transfer to the MTA was successful. |
| **MTA for Sender's Domain** | ![MTA Icon] | The MTA for the sender’s domain receives the message and places it into the MTA “in progress” (`gwinprog`) queue. |
| **MTA for Sender's Domain** | ![MTA Icon] | The MTA determines that the message must be sent out across the Internet. Because there is a mapped/UNC link between the MTA and the Internet Agent, the MTA places the message in its output queue in the Internet Agent's gateway directory (`domain\wpgate\gwia\wpcsout\gwid\0-7`). |
| **Internet Agent for Sender's Domain** | ![GWIA Icon] | The Internet Agent scans its input queues according to the Idle Sleep Duration setting on the Gateway Time Settings page of the Internet Agent object in ConsoleOne. The Internet Agent picks up the file in binary-encrypted format from the `wpcsout\gwid\0-7` directory and converts it.  
The Internet Agent encodes the message in MIME format with the appropriate encoding scheme.  
When the message file is built, the Internet Agent saves it with S as the first character of the filename and places the message file in the `domain\wpgate\gwia\send` directory for processing. |
| **Internet Agent for Sender's Domain** | ![GWIA Icon] | While the Internet Agent is processing the message file in the send directory, it changes the first character of the filename to P. When processing is completed, the Internet Agent sends the message to the destination host across the Internet. |
| **Internet Agent for Sender's Domain** | ![GWIA Icon] | If the Internet Agent does not receive a 250 OK SMTP reply code from the destination Internet host, the Internet Agent renames the P*. * message file back to S*. * and creates a file named R*. * that records the SMTP reply codes (error messages) in the `wpgate\gwia\result` directory. After the Internet Agent completes the communication with the destination host, it moves the S*. * message file from the send directory to the result directory along with the corresponding R*. * file. |
Message Delivery to and from the Internet

4.5 TCP/IP Link: Inbound Transfer from the Internet Successful

This message flow diagram illustrates how inbound message flow from the Internet through the GroupWise directory structure to the GroupWise recipient. The link between the Internet Agent and the MTA for the recipient’s domain is a TCP/IP link.

### Stage Icon Description

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Internet Agent for Sender’s Domain</td>
<td><img src="image" alt="Internet Agent" /></td>
<td>The Internet Agent analyzes the files in the result directory, comparing the SMTP reply codes in the R*.* file. If the R*.* file has a temporary transmission error (meaning it has a 400-level SMTP reply code such as 450 Host Down), the Internet Agent moves the S*.* message file to the defer directory. Continue with Stage 1. If the R*.* file has a fatal error (meaning it has a 500-level SMTP reply code such as 550 Host Unknown), the Internet Agent deletes the S*.* file because it is undeliverable. Skip to Stage 2.</td>
</tr>
<tr>
<td>2 Internet Agent for Sender’s Domain</td>
<td><img src="image" alt="Internet Agent" /></td>
<td>Based on the Intervals to the Retry a Deferred Message setting on the SMTP/MIME Settings property page of the Internet Agent object in ConsoleOne, the Internet Agent requeues the S*.* message file back into the send directory for reprocessing.</td>
</tr>
<tr>
<td>3 Internet Agent for Sender’s Domain</td>
<td><img src="image" alt="Internet Agent" /></td>
<td>After an S*.* message receives 400-level SMTP reply codes until the Maximum Number of Hours to Retry a Deferred Message setting is reached, or if a message receives 500-level SMTP reply codes, the Internet Agent deletes all related schedule files from the defer directory because the message is undeliverable. The Internet Agent then creates an Undeliverable status message for the MTA to pick up and return to the sender.</td>
</tr>
<tr>
<td>4 MTA for Sender’s Domain</td>
<td><img src="image" alt="MTA" /></td>
<td>Because of its mapped/UNC link with the Internet Agent, the MTA scans its input queue in the Internet Agent’s gateway directory based on the Scan Cycle setting on the Agent Settings page of the MTA object in ConsoleOne. The MTA picks up the Undeliverable status messages and transfers them to its “in progress” (gwinprog) directory for processing.</td>
</tr>
<tr>
<td>5 MTA for Sender’s Domain</td>
<td><img src="image" alt="MTA" /></td>
<td>The MTA for the sender’s domain communicates the Transferred status messages to the POA for the sender’s post office by way of TCP/IP.</td>
</tr>
<tr>
<td>6 POA for Sender’s Post Office</td>
<td><img src="image" alt="POA" /></td>
<td>The POA for the sender’s post office updates the sender’s message database (msgnnn.db) with the Transferred status information.</td>
</tr>
<tr>
<td>7 POA for Sender’s Post Office</td>
<td><img src="image" alt="POA" /></td>
<td>The POA for the sender’s post office communicates the Transferred status to the sender’s GroupWise client by way of TCP/IP.</td>
</tr>
<tr>
<td>8 Sender</td>
<td><img src="image" alt="Sender" /></td>
<td>When the sender checks the sent items in his or her mailbox in the GroupWise client, the message displays the Transferred status because the Internet Agent was able to send it successfully.</td>
</tr>
</tbody>
</table>
**Figure 4-5** Message Flow in From the Internet

**Table 4-5** Message Flow in From the Internet Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Actor</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Internet Agent for Recipient's Domain</td>
<td>GWIA</td>
<td>An Internet user sends a message to a GroupWise user. The Internet Agent receives the message from the external Internet host and places the message file in the <code>wpgate\gwia\receive</code> directory.</td>
</tr>
<tr>
<td>2 Internet Agent for Recipient's Domain</td>
<td>GWIA</td>
<td>The Internet Agent polls the receive directory according to the <em>Idle Sleep Duration</em> setting on the Gateway Time Settings page of the Internet Agent object in ConsoleOne. It picks up the message file, converts it to GroupWise format, and places a copy in the <code>wpgate\gwia\wpcsin\0-7</code> directory, where 0-7 is one of the priority subdirectories from 0-7. The Internet Agent puts messages only in the 4 directory, used for normal priority messages.</td>
</tr>
<tr>
<td>3 Internet Agent for Recipient's Domain</td>
<td>GWIA</td>
<td>The Internet Agent then communicates the message to the MTA for the recipient's domain by way of TCP/IP. When the transmission is successful, it deletes the copy in the in the <code>wpgate\gwia\wpcsin\0-7</code> directory.</td>
</tr>
<tr>
<td>4 MTA for Recipient's Domain</td>
<td>MTA</td>
<td>The MTA for the recipient's domain receives the message and places it into the MTA “in progress” (<em>gwinprog</em>) queue.</td>
</tr>
<tr>
<td>5 MTA for Recipient's Domain</td>
<td>MTA</td>
<td>The MTA determines which post office in the domain the recipient is located in, then moves the message to that post office's hold queue (<code>mslocal\mshold\postx\0-7</code>).</td>
</tr>
<tr>
<td>6 MTA for Recipient's Domain</td>
<td>MTA</td>
<td>The MTA for the recipient’s domain then communicates the message to the POA in the recipient’s post office by way of TCP/IP.</td>
</tr>
</tbody>
</table>
4.6 Mapped/UNC Link: Inbound Transfer from the Internet Successful

This message flow diagram illustrates how inbound message flow from the Internet through the GroupWise directory structure to the GroupWise recipient. The link between the Internet Agent and the MTA for the recipient’s domain is a mapped/UNC link.

*Figure 4-6 Message Flow in From the Internet*
### Table 4-6  Message Flow in From the Internet Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Actor</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Agent for Recipient's Domain</td>
<td><strong>GWIA</strong></td>
<td>An Internet user sends a message to a GroupWise user. The Internet Agent receives the message from the external Internet host and places the message file in the <code>wpgate\gwia\receive</code> directory.</td>
</tr>
<tr>
<td>Internet Agent for Recipient’s Domain</td>
<td><strong>GWIA</strong></td>
<td>The Internet Agent polls the receive directory according to the <em>Idle Sleep Duration</em> setting on the Gateway Time Settings page of the Internet Agent object in ConsoleOne. It picks up the message file, converts it to GroupWise format, and places it in the <code>wpgate\gwia\wpcsin\0-7</code> directory, where 0-7 is one of the priority subdirectories from 0-7. The Internet Agent puts messages only in the 4 directory, used for normal priority messages.</td>
</tr>
<tr>
<td>MTA for Recipient’s Domain</td>
<td><strong>MTA</strong></td>
<td>The MTA polls the <code>domain\wpgate\gwia\wpcsin\fd0-7F</code> directory based on the <em>Scan Cycle</em> setting on the Agent Settings page of the MTA object in ConsoleOne. It picks up the message file and moves it to its “in progress” (<code>gwinprog</code>) queue.</td>
</tr>
<tr>
<td>MTA for Recipient’s Domain</td>
<td><strong>MTA</strong></td>
<td>The MTA determines which post office in the domain the recipient is located in, then moves the message to that post office’s hold queue (<code>mslocal\mshold\postx\0-7</code>).</td>
</tr>
<tr>
<td>MTA for Recipient’s Domain</td>
<td><strong>MTA</strong></td>
<td>The MTA for the recipient’s domain then communicates the message to the POA in the recipient’s post office by way of TCP/IP.</td>
</tr>
<tr>
<td>POA for Recipient’s Post Office</td>
<td><strong>POA</strong></td>
<td>When it receives the new message, the POA for the recipient’s post office performs the following actions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adds the message to the message database (<code>msgnnn.db</code> file) corresponding to the one assigned to the sender.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Creates a pointer in the recipient’s user database (<code>userxxx.db</code> file), so the message appears in the recipient’s Mailbox and updates the notification information in the user database so the recipient can be notified of the message.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Places attachments larger than 2 KB in one of the <code>post_office\offiles\fd0-F6</code> subdirectories and creates pointers from the message to its attachments. (For database efficiency, messages and recipient lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td>Recipient’s GroupWise Client</td>
<td><strong>Recipient</strong></td>
<td>The Notify component of the recipient’s GroupWise client notifies the recipient that a new message has arrived.</td>
</tr>
<tr>
<td>Recipient</td>
<td></td>
<td>Each recipient opens the message in the GroupWise client.</td>
</tr>
</tbody>
</table>
5 Message Delivery through a Modem Connection

GroupWise client users can still access information in their mailboxes even when not connected to the network by running the GroupWise client in Remote mode.

- Section 5.1, ““Hit the Road” Process in Online Mode,” on page 47
- Section 5.2, “Modem Link through the Async Gateway in Remote Mode,” on page 48

5.1 “Hit the Road” Process in Online Mode

This message flow diagram illustrates how a user who will be away from the network prepares to access GroupWise from a remote location by downloading mailbox contents.

![Message Flow for Hit the Road](image)

Table 5-1 Message Flow for Hit the Road Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remote User</td>
<td>The GroupWise user runs Hit the Road in Online mode in order to request items from the master mailbox to be downloaded to the Remote mailbox in preparation for disconnecting from the master GroupWise system. For example, the user could be preparing a laptop computer for use away from the network.</td>
</tr>
</tbody>
</table>
5.2 Modem Link through the Async Gateway in Remote Mode

This message flow diagram illustrates how a GroupWise user in Remote mode can access the master GroupWise system through the GroupWise Async Gateway.
Table 5-2  Message Flow Through a Modem Stages

<table>
<thead>
<tr>
<th>Stage</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Remote User</td>
<td></td>
<td>The GroupWise user, who is working in Remote mode, sends a message to another GroupWise user or creates a request for items from the master mailbox.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The remote user’s computer is not currently connected to the network or the user’s master GroupWise system.</td>
</tr>
<tr>
<td>2  GroupWise</td>
<td></td>
<td>When the remote GroupWise user sends a message to another GroupWise user, the GroupWise client performs the following actions in the user’s Remote</td>
</tr>
<tr>
<td>Client in</td>
<td></td>
<td>mailbox:</td>
</tr>
<tr>
<td>Remote Mode</td>
<td></td>
<td>- Adds the message to the message database (msg.db) on the user’s remote computer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a pointer in the user database (user.db) so the message appears as a sent item in the Remote mailbox on the user’s remote computer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Places attachments larger than 2 KB in the rofdata directory and creates pointers from the message to its attachments on the user’s remote</td>
</tr>
<tr>
<td></td>
<td></td>
<td>computer. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Creates a copy of the message in the wpcsin\1 subdirectory of the GroupWise client’s remote input queue on the user’s remote computer.</td>
</tr>
</tbody>
</table>

When the remote GroupWise user sends a request for items from the master mailbox to be downloaded to the Remote mailbox, the GroupWise client places the request in the wpcsin\1 subdirectory of the GroupWise client’s remote input queue on the user’s remote computer.
When the remote GroupWise user initiates the modem connection, the GroupWise client polls its input queue (wpcsin\1) and compresses the outgoing messages and/or requests into a file. If the compressed file totals over 50 KB, additional compressed files are created.

The GroupWise client moves the compressed message/request files into its output queue (wpgwsend) directory.

The GroupWise client dials in to the gateway, logs in, then transmits the compressed message/request files across the modem connection to the GroupWise Async Gateway in the GroupWise system where the user’s master mailbox is located.

The GroupWise Async Gateway receives the message/request files and places them into its input queue (wpgate\async\asy\xxx\gwin\connection_id\cmp) for processing.

The Async Gateway decompresses the message/request files and moves them into the subdirectory for the remote user’s connection with the master GroupWise system.

With a TCP/IP link, the Async Gateway transfers the decompressed files to the MTA for the remote user’s domain in the master GroupWise system.

With a UNC/mapped link, the Async Gateway places the message/request files into the MTA’s input queue (wpgate\async\wpcsin\1), where the MTA picks up the files.

The MTA for the remote user’s domain receives the message/request files and places them into the MTA “in progress” (gwinprog) queue.

The MTA for the remote user’s domain then communicates the message/request files to the POA for the post office where the remote user’s master mailbox is located.

**NOTE:** This message flow diagram illustrates only the simplest case where the recipient is in the same post office as the remote user’s master mailbox. If the remote user sends a message to a user in any other post office, the MTA routes the message to the appropriate destination.
When the POA receives a message from the remote user, the POA performs the following actions to update the remote user’s master mailbox:

- Adds the message to the remote user’s message database (msgnnn.db) in the Online mailbox.
- Creates a pointer in the recipient’s user database (userxxx.db) in the Online mailbox so that the new message appears in the recipient’s mailbox and updates the notification information in the user database so the recipient can be notified of the message.
- Places attachments larger than 2 KB in one of the post_office\offiles\fd0-F6 subdirectories in the remote user’s post office and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Creates a Delivered status message in the priority 1 subdirectory of the remote user’s MTA input queue (wpcsin) in the post office.

When the POA receives a request for items from the remote user’s master mailbox, the POA performs the following actions:

- Gathers the requested items from the remote user’s master mailbox (msgnnn.db).
- Gathers any attachments for requested items from the post_office\offiles\fd0-F6 subdirectory in the remote user’s post office.
- Compiles the information into a response file and places it in the priority 1 subdirectory of the MTA input queue for return to the remote user.

The POA for the remote user’s post office communicates the Delivered status for messages and the response file for requests to the MTA for the remote user’s domain. When the transfer is successful, the copies in the MTA input queue are deleted.

The MTA for the remote user’s domain places the status/response files into the MTA “in progress” (gwinprog) queue.

With a TCP/IP link, the MTA for the remote user’s domain communicates the status/response files to the Async Gateway in the remote user’s domain.

With a UNC/mapped link, the MTA for the remote user’s domain places the status/response files into the Async Gateway’s input queue (wpgate\async\asyxxx\wpcsout\1), where the Async Gateway picks up the files.

When the MTA in the GroupWise Remote user’s domain detects the response for the GroupWise Remote user, the MTA picks it up from its post office input queue and transfers it to its output queue in the Async Gateway directory under wpgate in the GroupWise Remote user’s domain. The MTA output queue in the Async Gateway directory is the input queue for the Async Gateway.

The Async Gateway places the status/response files into the MTA output queue (wpgate\async\wpcsout\asyxxx\connection_id\1) of the Async Gateway directory.
Async Gateway

If the modem connection to the remote user is still active, the Async Gateway compresses the status/response files and moves them to the cmp directory. If the modem connection is no longer available, the status/response files wait in the `connection_id\1` subdirectory until a new connection is established by the remote user.

Async Gateway with Modem Connection

The Async Gateway transmits the status/response files through the modem connection to the input queue (`wpgwrecv`) for the GroupWise client on the user’s remote computer.

GroupWise Client in Remote Mode

The GroupWise client on the remote computer decompresses the status/response files and places them in its input queue (`wpcsout\ofs\1`) on the user’s remote computer.

GroupWise Client in Remote Mode

Taking the items from its input queue, the GroupWise client performs the following actions to update the Remote mailbox on the user’s remote computer:

- Updates the message database (`msg.db`) with any items requested from the remote user’s master mailbox.
- Creates pointers in the user database (`user.db`) so the messages gathered from the master mailbox appear in the Remote mailbox.
- Places any requested attachments larger than 2 KB in the rofdata directory and creates pointers from the message to its attachments. (For database efficiency, messages and distribution lists larger than 2 KB are also handled as attachments.)
- Updates the remote Address Book (`wprof.db`) to synchronize it with the Address Book in the remote user’s master GroupWise system.

The user’s Remote mailbox now contains current copies of requested items from the remote user’s master mailbox, plus any messages received in the user’s master mailbox from other GroupWise users.

Remote User

The GroupWise user can now review current GroupWise mail when the modem connection to the master GroupWise system is no longer available.
Administrative Database Update

ConsoleOne and the agents handle database updates throughout the GroupWise system.

This message flow diagram illustrates how an administrative message, such as a database update request, passes from ConsoleOne to the agents so that databases are updated throughout the GroupWise system.

*Figure 6-1*  Administrative Message Flow through TCP/IP
<table>
<thead>
<tr>
<th>Stage</th>
<th>Actor</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GroupWise Administrator</td>
<td>The administrator uses the GroupWise Administrator snap-in in ConsoleOne to add, modify, or delete a GroupWise object in a single-domain, single-post office GroupWise system. An object could be a GroupWise user, resource, distribution list, post office, secondary domain, and so on.</td>
</tr>
</tbody>
</table>
| 2     | ConsoleOne | ConsoleOne performs the following actions:  
- Updates the domain database (wpdomain.db) to reflect the addition, modification, or deletion performed in ConsoleOne.  
- Creates an administrative message in the priority 2 subdirectory of the domain’s MTA input queue (wpcsin) to replicate the update. |
| 3     | MTA for Domain | The MTA for the domain transfers the administrative message to the MTA “in progress” (gwinprog) queue. From there, the MTA communicates the administrative message to the POA in the post office by way of TCP/IP. The administrative message notifies the POA that a GroupWise object has been added, modified, or deleted.  
Historical Note: In earlier versions of GroupWise, this function of the POA was handled by a separate agent, the Administration Agent (ADA). The ADA no longer exists in GroupWise. |
| 4     | POA for Post Office | The POA creates a copy of the administrative message in the priority 2 subdirectory of the administrative input queue (wpcsout\ads) in the post office. After the update is made successfully, the copy is deleted. |
| 5     | POA for Post Office | The POA updates the post office database (wphost.db) to reflect the addition, modification, or deletion performed in ConsoleOne and deletes the administrative message from its administrative input queue. |
This part of Troubleshooting 3: Message Flow and Directory Structure helps you understand the structure of GroupWise message transfer/storage directories (such as domains and post offices) and software installation directories.

- Chapter 7, “Message Transfer/Storage Directories,” on page 57
- Chapter 8, “Agent Installation Directories,” on page 99
- Chapter 9, “Web Application Installation Directories on Your Web Server,” on page 133
- Chapter 10, “Software Distribution Directory,” on page 157
- Chapter 11, “GroupWise Client Installation Directories,” on page 173
Message transfer and storage directories are the locations through which messages pass as they travel from user to user through your GroupWise system.

- Section 7.1, “Domain Directory,” on page 57
- Section 7.2, “Post Office Directory,” on page 64
- Section 7.3, “MTA Local Queue Directory,” on page 77
- Section 7.4, “WebAccess Agent Queue Directory,” on page 81
- Section 7.5, “Internet Agent Queue Directory,” on page 83
- Section 7.6, “Caching Mailbox Directory,” on page 89
- Section 7.7, “Remote Mailbox Directory,” on page 94

### 7.1 Domain Directory

- `domain` Domain directory
  - `mslocal` MTA local working directory
  - `wpcsin` MTA input queue directory
    - 0 Live interactive requests
    - 1 Other interactive requests
    - 2 High priority messages
    - 3 High priority status responses
    - 4 Normal priority messages
    - 5 Normal priority status responses
    - 6 Low priority messages
    - 7 Low priority status responses
  - `wptools` Supporting program directory
  - `wpgate` GroupWise gateway directory
  - `wpcsout` MTA output queue directory
Within the GroupWise system, a **domain** is hierarchically the highest level object. It organizes post offices into a logical grouping for addressing and routing purposes. Each user in the domain has an address that consists of the user’s GroupWise user ID, the user’s post office name, and the domain name (`user.post_office.domain`). The explicit name is not displayed in the Address Book, but is stored in the domain database (`wpdomain.db`).

### 7.1.2 wpcsin directory

The `wpcsin` subdirectory in the **domain** is the MTA input queue in each domain. It contains eight priority subdirectories to handle different types of message traffic.

- Incoming user messages are queued by priority for routing to recipients’ post offices in the local domain.
- Incoming status messages are queued by priority for routing to senders’ post offices in the local domain.
- Outgoing administrative messages are queued for replication to other domains.
- In a routing domain, messages pass through this directory on their way to the next domain.
When a new message arrives, the MTA routes it to the appropriate destination.

For TCP/IP links, the MTA is notified immediately when a message arrives for processing. For mapped and UNC links, the MTA scans its input queue for messages to process. You can control the rate at which the MTA scans its input queues. See “Adjusting MTA Polling of Input Queues in the Domain, Post Offices, and Gateways” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name wp cis in for the MTA input queue. Some naming conventions were originally preserved for backward compatibility.

0 directory

The priority 0 subdirectory of the MTA input queue (wp cis in) in the domain is for service requests that demand an immediate response from the MTA. For example:

- ConsoleOne places restart requests and queue reconfiguration requests here for the MTA and gateways.
- MTAs for other domains route Busy Search requests through here when users in other domains check schedules of users in the local domain.

You can increase throughput for the priority 0 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

1 directory

The priority 1 subdirectory of the MTA input queue (wp cis in) in the domain is for service requests of the next highest priority. For example:

- ConsoleOne places directory synchronization requests here for the MTA admin thread.
- ConsoleOne places statistics requests here for the MTA to relay to the message logging module for processing.
- MTAs for other domains route remote GroupWise client requests through here when remote GroupWise users do not connect to the post office where their master mailboxes are located.

You can increase throughput for the priority 1 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

2 directory

The priority 2 subdirectory of the MTA input queue (wp cis in) in the domain is for high priority messages. For example:

- MTAs for other domains place incoming high priority user messages here. The local MTA then routes the messages to recipients’ post offices.
- MTAs for other domains place incoming administrative messages here to replicate database updates in the local domain.
- The MTA admin thread places outgoing administrative messages here to replicate database updates to other domains.
You can increase throughput for the priority 2 and 3 subdirectories. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

### 3 directory

The priority 3 subdirectory of the MTA input queue (wpcsin) in the domain is for high priority status messages routed back to senders in local post offices. For example, MTAs for other domains place status responses to high priority user messages here. The local MTA then routes the status messages to senders’ post offices, so senders’ mailboxes can be updated with current message status.

You can increase throughput for the priority 2 and 3 subdirectories. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

### 4 directory

The priority 4 subdirectory of the MTA input queue (wpcsin) in the domain is for normal priority user messages routed to recipients in local post offices. For example, MTAs for other domains place normal priority user messages here. The local MTA then routes the messages to recipients’ post offices. Most messages in your GroupWise system pass through the priority 4 subdirectory.

You can increase throughput for the priority 4 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

### 5 directory

The priority 5 subdirectory of the MTA input queue (wpcsin) in the domain is for normal priority status messages routed back to senders in local post offices. For example, MTAs for other domains place status responses to normal priority user messages here. The local MTA then routes the status messages to senders’ post offices, so senders’ mailboxes can be updated with current message status.

### 6 directory

The priority 6 subdirectory of the MTA input queue (wpcsin) in the domain is for low priority user messages routed to recipients in local post offices. For example, MTAs for other domains place low priority user messages here. The local MTA then routes the messages to recipients’ post offices.

### 7 directory

The priority 7 subdirectory of the MTA input queue (wpcsin) in the domain is for low priority status messages routed back to senders in local post offices.

For example, MTAs for other domains place status responses to low priority user messages here. The local MTA then routes the status messages to senders’ post offices, so senders’ mailboxes can be updated with current message status.
7.1.3 **wptools directory**

The `wptools` subdirectory in the **domain** contains programs that support GroupWise administration.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in `wptools`. Some naming conventions were originally preserved for backward compatibility.

7.1.4 **wpgate directory**

The `wpgate` subdirectory in the **domain** contains a subdirectory for each GroupWise gateway you have installed in your GroupWise system. For a list of gateways, see the GroupWise Gateways Documentation Web site (http://www.novell.com/documentation/gwgateways). GroupWise 5.5 gateways can be used with GroupWise 6.x, 7, and 8.

7.1.5 **wpcsout directory**

The `wpcsout` subdirectory in the **domain** is the MTA output queue in each domain. It contains subdirectories that function as input queues for the processes to which the MTA delivers messages.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name `wpcsout` for the MTA output queue. Some naming conventions were originally preserved for backward compatibility.

**ads directory**

The `ads` subdirectory of the MTA output queue (`wpcsout`) in the **domain** is the input queue for the MTA admin thread in each domain. It contains priority subdirectories where incoming administrative messages are queued for processing. When a new administrative message arrives, the MTA admin thread performs the requested action.

Historical Note: The MTA admin thread was previously part of a separate agent, the Administration Agent (ADA), which was originally named the Administration Server (ADS). Hence, the directory name `ads`. Some naming conventions were originally preserved for backward compatibility.

**0 directory**

The priority 0 subdirectory of the MTA admin thread input queue (`wpcsout\ads`) in the **domain** is for service requests that demand an immediate response from the MTA admin thread.

For example, when you create or delete a post office in ConsoleOne, a restart request is placed here. The domain MTA admin thread processes the request and then restarts.

**1 directory**

The priority 1 subdirectory of the MTA admin thread input queue (`wpcsout\ads`) in the **domain** is for service requests of the next highest priority.
2 directory

The priority 2 subdirectory of the MTA admin thread input queue (\wpcsout\ads) in the domain is for high priority administrative messages. For example:

- The MTA places administrative messages from other domains here. The administrative messages might instruct the MTA admin thread to add, modify, or delete users, post offices, or other objects in the domain. The MTA admin thread then processes the messages and makes the specified updates.
- When you use the Synchronize utility in ConsoleOne, a synchronization request is placed here. The MTA admin thread then resends the specified administrative messages to produce the required database updates.

css directory

The css subdirectory of the MTA output queue (\wpcsout) in the domain is processed by a specialized MTA thread that responds to requests regarding its own configuration. It contains the eight standard priority subdirectories.

Historical Note: In an earlier version of GroupWise, the Message Transfer Agent (MTA) was called the Connection Server (CS) and this specialized subprocess was called the Connection Server Server (css). Some naming conventions were originally preserved for backward compatibility.

0 directory

The priority 0 subdirectory of the CSS input queue (\wpcsout\css) in the domain is for service requests that demand an immediate response from the MTA.

For example, when you restart the MTA at the MTA agent console or in ConsoleOne, a restart request is placed here. The MTA processes the request and restarts.

1 directory

The priority 1 subdirectory of the CSS input queue (\wpcsout\css) in the domain is for service requests of the next highest priority.

For example, each time the statistics are updated on the MTA agent console, a statistics request is placed here. The MTA then gathers the statistics and displays them on the MTA agent console.

2 directory

The priority 2 subdirectory of the css input queue (\wpcsout\css) in the domain is for non-priority requests.

problem directory

The problem subdirectory of the MTA output queue (\wpcsout) in the domain is where the MTA places message files that cannot be delivered because they are damaged in some way. Message files in the problem directory must be handled by the GroupWise administrator. See “Message Is Dropped in the problem Directory in the Domain” in GroupWise 8 Troubleshooting 2: Solutions to Common Problems.
7.1.6 mtaname file

The mtaname file in the domain provides the domain name associated with the domain directory structure. This can help you locate the domain information for the directory structure in ConsoleOne. It can also help you check links between MTAs.

7.1.7 wpdomain.db file

The wpdomain.db file in the domain is the domain database. It contains all administrative information for the domain.

In the primary domain, the wpdomain.db file contains all administrative information for your entire GroupWise system (all its domains, post offices, users, and so on). Because the wpdomain.db file in the primary domain is so crucial, you should back it up regularly and keep it secure. (You can re-create your entire GroupWise system from the primary domain wpdomain.db file; however, if the primary domain wpdomain.db file becomes unusable, you can no longer make administrative updates to your GroupWise system.)

In a secondary domain, the wpdomain.db file contains administrative information about that secondary domain only.

In GroupWise 8, 7, 6.x, and 5.x domains, the data dictionary for the wpdomain.db file is the gwdom.dc file. In GroupWise 4.x domains, the data dictionary is the wpdomain.dc file. As a result, wpdomain.db files have different structures (schemas) depending on whether they were created for 8/7/6.x/5.x or 4.x domains.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wpdomain.db. Some naming conventions were originally preserved for backward compatibility.

7.1.8 wpdomain.dc file

The wpdomain.dc file in the domain is the data dictionary for rebuilding GroupWise 4.x domain databases (wpdomain.db files) in secondary domains.

If the wpdomain.dc file is missing from the primary domain, you cannot rebuild GroupWise 4.x secondary domains. The original wpdomain.dc file is located in the domain subdirectory of the software distribution directory or on the GroupWise 8 DVD or GroupWise 8 downloaded software image.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wpdomain.dc. Some naming conventions were originally preserved for backward compatibility.

7.1.9 wphost.dc file

The wphost.dc file in the domain is the data dictionary for rebuilding GroupWise 4.x post office databases (wphost.db files).

If the wphost.dc file is missing from a domain, you cannot rebuild GroupWise 4.x post offices in that domain. The original wphost.dc file is located in the domain directory of the software distribution directory or on the GroupWise 8 DVD or GroupWise 8 downloaded software image.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name wphost.dc. Some naming conventions were originally preserved for backward compatibility.
7.1.10 gwdom.dc file

The gwdom.dc file in the domain is the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and 5.x domain databases (wpdomain.db files) in secondary domains.

If the gwdom.dc file is missing from the primary domain, you cannot create or rebuild GroupWise 8/7/6/5.x secondary domains. The original gwdom.dc file is located in the domain directory of the software distribution directory or on the GroupWise distribution media.

7.1.11 gwpo.dc file

The gwpo.dc file in the domain is the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and 5.x post office databases (wphost.db files).

If the gwpo.dc file is missing from a domain, you cannot create or rebuild GroupWise 8/7/6/5.x post offices in that domain. The original gwpo.dc file is located in the domain directory of the software distribution directory or on the GroupWise distribution media.

7.1.12 viewcopy.log file

The viewcopy.log file in the domain is created by the GroupWise Installation program if you update the Windows client software and the Installation program is unable to copy the view files to any post offices in the domain. You can manually update the view files later, as described in “Refreshing the Client View Files in the Post Office” in “Post Offices” in the GroupWise 8 Administration Guide.

7.2 Post Office Directory

- **post_office**
  - Post office directory
  - **wpcsin**
    - MTA input queue directory
    - **0**
      - Live interactive requests
    - **1**
      - Other interactive requests
    - **2**
      - High priority messages
    - **3**
      - High priority status responses
    - **4**
      - Normal priority messages
    - **5**
      - Normal priority status responses
    - **6**
      - Low priority messages
    - **7**
      - Low priority status responses
  - **gwdms**
    - Document Management Services directory
    - **dmsh.db**
      - Shared Document Management Services database
    - **lib00-FF**
      - Library directories
      - **dmxnn01-FF.db**
        - Document databases
      - **index**
        - QuickFinder index for library
      - **archive**
        - Archive directory for library
      - **docs**
        - Large document directory for library
      - **fd00-FF**
        - Subdirectories for documents
ofmsg
  msgnnnn.db Message database directory
  msgwdr.db As many as 255 message databases
  guardbak Deferred message database
  guardbak Backup guardian database

ofuser
  userxxx.db User database directory
  puxxxxx.db User databases (one per user)
  index Databases for shared folders
         QuickFinder index for messages

offiles
  fd0-f6 Attachment store directory
             Subdirectories for attachments

ofviews
  GroupWise client view files

ofwork
  GroupWise working directory
  ofdirect Remote direct connection directory

oftemp
  gwdca GroupWise temporary files
     in Document Conversion Agent temporary files
     out Document Conversion Agent input queue
     problem Document Conversion Agent output queue
     log Document Conversion Agent quarantine
             Document Conversion Agent log files

wpcsout
  MTA output queue directory

ofs
  POA input queue directory
     0 Live interactive requests
     1 Other interactive requests
     2 High priority messages
     3 High priority status responses
     4 Normal priority messages
     5 Normal priority status responses
     6 Low priority messages
     7 Low priority status responses
  defer Directory to temporarily store deferred messages
         mmdddpoa.nnn POA log files
             wprof50.db Downloadable system Address Book

ads
  POA admin thread input queue directory
     0 Restart requests
     1 Directory synchronization requests
     2 Database updates
     3 Reserved; not currently used
     4 Reserved; not currently used
     5 Reserved; not currently used
     6 Reserved; not currently used
     7 Reserved; not currently used
7.2.1 post_office directory

Conceptually, a post office contains mailboxes for a set of network users. The users on the post office send and receive messages through their mailboxes.

Physically, a post office is a directory structure on a network file server. The directory structure contains subdirectories and databases that store messages and the information used to distribute the messages.

7.2.2 wpcsin directory

The wpcsin subdirectory in the post office is the MTA input queue in each post office. It contains eight priority subdirectories to handle different types of message traffic.

- Outgoing user messages are queued by priority for routing to recipients in other post offices.
- Outgoing status messages are queued by priority for routing back to senders' post offices.
- Outgoing Busy Search requests are queued for routing to other post offices so users' schedules can be checked.
- Remote GroupWise client requests are queued for routing to remote GroupWise users' master mailboxes.

When a new message arrives, the MTA routes it to the appropriate destination.

For mapped and UNC links, the MTA scans its input queue for messages to process. You can control the rate at which the MTA scans its input queues. See “Adjusting MTA Polling of Input Queues in the Domain, Post Offices, and Gateways” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

For TCP/IP links, the POA passes messages to the MTA via TCP/IP. A copy is kept in the MTA input queue until the POA has successfully transferred the message.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name wpcsin for the MTA input queue. Some naming conventions were originally preserved for backward compatibility.
0 directory

The priority 0 subdirectory of the MTA input queue (wpcsin) in the post office is for service requests that demand an immediate response from the MTA.

For example, the GroupWise client places Busy Search requests here. The MTA then routes the requests to the appropriate post offices, so users’ schedules can be checked.

For mapped and UNC links, you can increase throughput for the priority 0 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

For TCP/IP links, the 0 subdirectory is used only if the POA is unable to immediately transfer the request to the MTA by way of the TCP/IP link.

1 directory

The priority 1 subdirectory of the MTA input queue (wpcsin) in the post office is for service requests of the next highest priority. For example:

- Remote with a direct connection places requests here for routing to remote GroupWise users’ master mailboxes.
- The POA places outgoing status messages to remote GroupWise users here for routing to the Async Gateway.

For mapped and UNC links, you can increase throughput for the priority 1 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

For TCP/IP links, the 1 subdirectory is used only if the POA is unable to immediately transfer the service request to the MTA by way of the TCP/IP link.

2 directory

The priority 2 subdirectory of the MTA input queue (wpcsin) in the post office is for high priority user messages routed to recipients in other post offices, domains, or systems.

For example, the GroupWise client places high priority user messages here. The MTA then routes the messages to the appropriate destinations.

For mapped and UNC links, you can increase throughput for the priority 2 and 3 subdirectories. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the GroupWise 8 Administration Guide.

For TCP/IP links, the 2 subdirectory is used only if the POA is unable to immediately transfer the high priority user messages to the MTA by way of the TCP/IP link.

3 directory

The priority 3 subdirectory of the MTA input queue (wpcsin) in the post office is for high priority status messages routed back to senders in other post offices, domains, or systems.

For example, the GroupWise client and local POA place status responses to high priority user messages here. The MTA then routes the status messages to the appropriate post offices, so senders’ mailboxes can be updated with current message status.
For mapped and UNC links, you can increase throughput for the priority 2 and 3 subdirectories. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

For TCP/IP links, the 3 subdirectory is used only if the POA is unable to immediately transfer the high priority status responses to the MTA by way of the TCP/IP link.

**4 directory**

The priority 4 subdirectory of the MTA input queue (*wpcsin*) in the post office is for normal priority user messages routed to recipients in other post offices, domains, or systems.

For example, the GroupWise client places normal priority user messages here. The MTA then routes the messages to the appropriate destinations. Most messages in your GroupWise system pass through the priority 4 subdirectory.

For mapped and UNC links, you can increase throughput for the priority 4 subdirectory. See “Adjusting the Number of MTA Scanner Threads for the Domain and Post Offices” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

For TCP/IP links, the 4 subdirectory is used only if the POA is unable to immediately transfer the normal priority user messages to the MTA by way of the TCP/IP link.

**5 directory**

The priority 5 subdirectory of the MTA input queue (*wpcsin*) in the post office is for normal priority status messages routed back to senders in other post offices, domains, or systems.

For example, the GroupWise client and local POA place status responses to normal priority user messages here. The MTA then routes the status messages to the appropriate post offices, so senders’ mailboxes can be updated with current message status.

For TCP/IP links, the 5 subdirectory is used only if the POA is unable to immediately transfer the normal priority status responses to the MTA by way of the TCP/IP link.

**6 directory**

The priority 6 subdirectory of the MTA input queue (*wpcsin*) in the post office is for low priority user messages routed to recipients in other post offices, domains, or systems.

For example, the GroupWise client places low priority user messages here. The MTA then routes the messages to the appropriate destinations.

For TCP/IP links, the 6 subdirectory is used only if the POA is unable to immediately transfer the low priority user messages to the MTA by way of the TCP/IP link.

**7 directory**

The priority 7 subdirectory of the MTA input queue (*wpcsin*) in the post office is for low priority status messages routed back to senders in other post offices, domains, or systems.

For example, the GroupWise client and local POA place status responses to low priority user messages here. The MTA then routes the status messages to the appropriate post offices, so senders’ mailboxes can be updated with current message status.
For TCP/IP links, the subdirectory is used only if the POA is unable to immediately transfer the low priority status responses to the MTA by way of the TCP/IP link.

### 7.2.3 gwdms directory

The gwdms subdirectory in the post office is the Document Management Services (DMS) directory in each post office. It contains the document libraries associated with the post office.

#### dmsh.db file

The dmsh.db file in the document management subdirectory (gwdms) in the post office is a database shared by all libraries in the post office. It contains a list of all available libraries and lookup tables for each library.

#### lib0001-FF directories

The lib0001-FF subdirectories in the gwdms subdirectory in the post office contain the libraries for the post office, with one library per directory. You can create a maximum of 256 libraries in a post office.

#### dmxxnn01-FF.db files

The dmxxnn01-FF.db files in the library subdirectories (lib0001-ff) in the post office are databases for library and document information.

The nn in the filenames represents the partition number, which is generated by a hashing algorithm to guarantee uniqueness.

The 01-ff in the filenames represents the library number, matching the number on the library directory in which the database is found.

- **dmsdn01-ff.db file** The dmsdn01-ff.db file in each library holds system data for the library, such as library configuration information.
- **dmddnn01-ff.db file** The dmddnn01-ff.db file in each library holds document data for the library. Document data is the document property information for documents in the library.
- **dmdlnn01-ff.db file** The dmdlnn01-ff.db file in each library holds document logging data for the library. Document logging data records all activities performed on documents in the library.

#### index directory

The index subdirectories in the library subdirectories (lib0001-ff) in the post office contain the QuickFinder index for the documents contained in the library.

#### archive directory

The archive subdirectories in the library subdirectories (lib0001-FF) in the post office contain an array of subdirectories for holding archived documents. The subdirectories are numbered sequentially. When the first archive subdirectory reaches its maximum allowable size, archived documents are stored in the next sequential directory, and so on.
docs directory

The docs subdirectories in the library subdirectories \texttt{(lib0001-FF)} in the post office contain an array of subdirectories for storing documents.

FD0-FF directories The FD0-FF subdirectories in the docs subdirectory in the post office store documents that are equal to or greater than 2 KB in size. The 0-FF variable represents hexadecimal number 0 through FF, so the subdirectories are named FD0 through FDF. The document databases \texttt{(dmxxnn01-FF.db)} files contain pointers to documents stored in the subdirectories of the docs directory.

7.2.4 ofmsg directory

The ofmsg subdirectory in the post office contains as many as 255 databases where messages are stored. It serves as centralized storage for all users in the post office. A message must be stored only once to be delivered to any number of users in the same post office.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the of in ofmsg. Some naming conventions were originally preserved for backward compatibility.

msgnnn.db file

The msgnnn.db files in the ofmsg subdirectory in the post office are the message databases where users’ messages smaller than 2 KB are stored. To increase database efficiency, messages, attachments, and recipient lists equal to or greater than 2 KB are stored outside the msgnnn.db files in an array of subdirectories in the offiles directory. After the 2 KB limit is reached, only pointers are stored in the message databases.

The nnn variable in the database names is a three-digit number from 0 to 254. A hashing algorithm takes each user’s GroupWise file ID (FID) to derive which database the user’s outgoing mail is assigned to. The contents of the messages databases are encrypted so the text of message can only be read through GroupWise.

Multiple users are assigned to the same message database. You can use GWCheck to determine which database a specific user has been assigned to. See “GroupWise Check” in “Standalone Database Maintenance Programs” in the GroupWise 8 Administration Guide.

ngwdfr.db file

The ngwdfr.db file in the ofmsg subdirectory in the post office holds deferred messages that users have specified for delivery at a later time. When users delay delivery on messages, the messages are transferred to the receiving post office and held in the ngwdfr.db file until the delay expires.

Historical Note: Earlier versions of GroupWise handled deferred messages through the ofpend directory in the post office.

guardbak directory

The guardbak subdirectory in the ofmsg subdirectory in the post office holds a backup copy of the ngwguard.fbk file.
### 7.2.5 ofuser directory

The ofuser subdirectory in the post office contains a separate database (mailbox) for each GroupWise user.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the of in ofuser. Some naming conventions were originally preserved for backward compatibility.

#### userxxx.db file

The userxxx.db files in the ofuser subdirectory in the post office are user databases where the contents of users’ mailboxes are stored, as displayed in the GroupWise client. In addition, each user database contains:

- Some personal GroupWise client program settings
- Personal appointments
- Personal groups
- Personal notes
- Rules

Personal client settings that remain the same regardless of what workstation a user logs in to are stored in the user database. Personal client settings that are customized for a particular workstation are stored in the Windows registry.

The xxx variable in the database names is each user’s GroupWise file ID (FID).

#### puuxxxx.db file

The puuxxxx.db files in the ofuser subdirectory in the post office are databases for replicated items such as shared folders. These databases prevent conflicts between user names of shared items from users in other post offices and user names in the local post office.

#### index directory

The index subdirectory in the ofuser subdirectory in the post office contains the QuickFinder index for users’ messages stored in the post office.

### 7.2.6 offiles directory

The offiles subdirectory in the post office contains subdirectories for messages, attachments, and recipient lists that are equal to or greater than 2 KB in size. These larger messages, attachments, and recipient lists are stored outside the actual message databases in the ofmsg directory to increase database efficiency.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the of in offiles. Some naming conventions were originally preserved for backward compatibility.
**fd0-f6 directories**

The **fd0-f6** subdirectories in the **offiles** subdirectory in the **post office** store messages, attachments, and recipient lists that are equal to or greater than 2 KB in size. The **nn** variable represents hexadecimal number 0 through f6, so the subdirectories are named **fd0** through **fdf6**. The message databases (**msgnn.db** files) contain pointers to messages, attachments, and recipient lists stored in the subdirectories of **offiles**.

**7.2.7 ofviews directory**

The **ofviews** subdirectory in the **post office** contains subdirectories for GroupWise client platforms. Within the platform-specific subdirectories (for example, **win**) are view (***.vew**) files that create the various views displayed in the GroupWise client.

The **gwviewxx.ini** and **ofviewxx.ini** files configure the standard views on the menus where users select views. The **gwviewxx.ini** file configures GroupWise 8, 7, 6.x, and 5.5 standard views. The **ofviewxx.ini** file configures standard views from earlier versions of GroupWise.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the **of** in **ofviews**. Some naming conventions were originally preserved for backward compatibility.

**7.2.8 ofwork directory**

The **ofwork** subdirectory in the **post office** is a working directory for requests from the GroupWise client in Remote mode.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the **of** in **ofwork**. Some naming conventions were originally preserved for backward compatibility.

**7.2.9 ofdirect directory**

The **ofdirect** subdirectory in the working directory (**ofwork**) in the **post office** is used by the GroupWise client in Remote mode for direct connections when the network is available.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the **of** in **ofdirect**. Some naming conventions were originally preserved for backward compatibility.

**7.2.10 oftemp directory**

The **oftemp** subdirectory in the **post office** holds various temporary files such as the MIME files created during access by IMAP e-mail clients.

**gwdca directory**

The **gwdca** subdirectory in the **post office** holds subdirectories used by the Document Conversion Agent as it converts documents to HTML for indexing by the QuickFinder thread. For more information, see “Configuring the Document Conversion Agent for Indexing Specific Document Types” in “Post Office Agent” in the **GroupWise 8 Administration Guide**.
**in directory**

The POA decrypts attachments and delivers them into the *in* directory for processing by the Document Conversion Agent.

**out directory**

The Document Conversion Agent converts documents placed in the *in* directory into HTML, then places them in the *out* directory for indexing by the POA. After the POA indexes each HTML file, it deletes the HTML version.

**problem directory**

If the Document Conversion Agent cannot convert a file, and if *Quarantine Files That Fail during Conversion* is selected on the POA object in ConsoleOne, the Document Conversion Agent places the document in the *problem* subdirectory. Documents in the *problem* directory are not encrypted.

**log directory**

When it starts, the Document Conversion Agent writes its current configuration settings into its log file in the *log* directory. If a document fails conversion, error information is written to the log file.

### 7.2.11 wpcsout directory

The *wpcsout* subdirectory in the *post office* is the MTA output queue in each post office. It contains subdirectories which function as input queues for the other agents to which the MTA delivers messages.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name *wpcsout* for the MTA output queue. Some naming conventions were originally preserved for backward compatibility.

**ofs directory**

The *ofs* subdirectory of the MTA output queue (*wpcsout*) in the *post office* is the POA input queue in each post office. It contains eight priority subdirectories to handle different types of message traffic.

- Incoming user messages are queued by priority for delivery to recipients’ mailboxes in the local post office.
- Incoming status messages are queued by priority for delivery to senders’ mailboxes in the local post office.
- Incoming Busy Search requests are queued for the POA to check users’ schedules in the local post office.

The POA scans these priority subdirectories regularly. When a new message arrives, the POA processes the messages and performs the required actions.
0 directory

The priority 0 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for service requests that demand an immediate response from the POA.

For example, the MTA places Busy Search requests here so the POA can check recipients’ schedules and quickly return the schedule information to the sender.

1 directory

The priority 1 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for service requests of the next highest priority.

For example, the MTA places requests from remote GroupWise users for items in their master mailboxes here. The POA then processes the messages and returns the requested items.

2 directory

The priority 2 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for high priority user messages being delivered to recipients in the local post office.

For example, the MTA places high priority user messages here. The POA then updates the message databases and recipients’ mailboxes.

3 directory

The priority 3 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for high priority status messages coming back to senders in the local post office.

For example, the MTA places status responses to high priority user messages here. The POA then updates the message databases and senders’ mailboxes with current message status.

4 directory

The priority 4 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for normal priority user messages being delivered to recipients in the local post office.

For example, the MTA places normal priority user messages here. The POA then updates the message databases and recipients’ mailboxes. Most messages in your GroupWise system pass through the priority 4 subdirectory.

5 directory

The priority 5 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for normal priority status messages coming back to senders in the local post office.

For example, the MTA places status responses to normal priority user messages here. The POA then updates the message databases and senders’ mailboxes with current message status.

6 directory

The priority 6 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for low priority user messages being delivered to recipients in the local post office.

For example, the MTA places low priority messages here. The POA then updates the message databases and recipients’ mailboxes.
7 directory
The priority 7 subdirectory of the POA input queue (\wpcsout\ofs) in the post office is for low priority status messages coming back to senders in the local post office.

For example, the MTA places status responses to low priority user messages here. The POA then updates the message databases and senders’ mailboxes with current message status.

defer directory
The defer subdirectory of the POA input queue (\wpcsout\ofs) in the post office is used to temporarily store deferred messages when the ngwdfr.db database is locked. This might occur if backup software has locked the ngwdfr.db database. After the ngwdfr.db database is available again, deferred messages are written to the ngwdfr.db database as usual.

mmddpoa.nnn files
The mmddpoa.nnn files are POA log files. The POA creates log files to inform you of its processing and any problems it encounters. By default, these log files are created in the \wpcsout\ofs directory. You can change the location if needed. See “Using POA Log Files” in “Post Office Agent” in the GroupWise 8 Administration Guide guide.

The first two digits of the filename represent the month, the next two digits represent the day of the month, and the next three characters indicate what program created the log. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518poa.002 is the second POA log file created on May 18.

wprof50.db file
The wprof50.db file in the \wpcsout\ofs directory is the downloadable system Address Book for Remote client users. By default, it is automatically re-created once a day to keep it up to date. See “Performing Nightly User Upkeep” in “Post Office Agent” in the GroupWise 8 Administration Guide guide.

ads directory
The ads subdirectory of the MTA output queue (\wpcsout) in the post office is the input queue for the POA admin thread in each post office. It contains priority subdirectories where administrative messages are queued for processing.

Historical Note: The POA admin thread was previously part of a separate agent, the Administration Agent (ADA), which was originally named the Administration Server (ADS). Hence, the directory name ads. Some naming conventions were originally preserved for backward compatibility.

0 directory
The priority 0 subdirectory of the POA admin thread input queue (\wpcsout\ads) in the post office is for service requests that demand an immediate response from the POA admin thread.

1 directory
The priority 1 subdirectory of the POA admin thread input queue (\wpcsout\ads) in the post office is for service requests of the next highest priority.

For example, a directory synchronization request that could not be performed when the POA admin thread received it in its domain input queue would be placed here in the post office for later processing.
2 directory

The priority 2 subdirectory of the POA admin thread input queue (\wpcs\ads) in the post office is for high priority administrative messages.

For example, a database update request that could not be performed when the POA admin thread received it in its domain input queue would be placed here in the post office for later processing.

chk directory

The chk subdirectory of the MTA output queue (\wpcs\) in the post office is the working directory where the multithreaded GWCheck process keeps temporary files during database maintenance and where it tracks the activities of its various threads. The defer subdirectory is used when the ngwcheck.db database is locked, for example, by a backup program.

problem directory

The problem subdirectory of the MTA output queue (\wpcs\) in the post office is a holding area for damaged message files. Problem files are marked with an extension indicating which GroupWise agent placed each file in the problem directory.

You should check this directory periodically for problem files, resolve the problem, then place the files back into the appropriate queue for continued processing. For assistance, see “Message Is Dropped in the problem Directory in the Post Office” in “Strategies for Message Delivery Problems” in the GroupWise 8 Troubleshooting 2: Solutions to Common Problems.

7.2.12 wphost.db file

The wphost.db file in the post office is the post office database. It contains all administrative information for the post office. It also contains the Address Book for the post office.

In GroupWise 8, 7, 6.x, and 5.x post offices, the data dictionary for the wphost.db file is the gwpo.dc file. In GroupWise 4.x post offices, the data dictionary is the wphost.dc file. As a result, wphost.db files have different structures (schemas) depending on whether they were created for GroupWise 8/7/6.x/5.x or 4.x post offices.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name wphost.db. Some naming conventions were originally preserved for backward compatibility.

7.2.13 gwpo.dc file

The gwpo.dc file in the post office is the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and 5.x post office databases (wphost.db files).

If the gwpo.dc file is missing from a post office and its domain, you cannot create or rebuild GroupWise 8/7/6.x/5.x post offices in that domain. The original gwpo.dc file is located in the domain directory of the software distribution directory or on the GroupWise 8 DVD or GroupWise 8 downloaded software image.

7.2.14 ngwguard.db file

The ngwguard.db file in the post office is the guardian database. See “Information Stored in the Post Office” in “Post Office Agent” in the GroupWise 8 Administration Guide.
7.2.15 **ngwguard.dc file**

The *ngwguard.dc* file in the **post office** is the data dictionary for building the following databases in the post office:

- *ngwguard.db* (guardian database)
- *dmxxnn01-ff.db* (document management databases)
- *msgnnn.db* (message databases)
- *userxxx.db* (user databases)
- *puxxxxx.db* (databases for replicated items like shared folders)

7.2.16 **ngwguard.fbk file**

The *ngwguard.fbk* file in the **post office** is a “fall back” copy of the *ngwguard.db* file. If the *ngwguard.db* file becomes damaged, the *ngwguard.fbk* file, along with the *ngsguard.rfl* file, can be used to rebuild a valid, current *ngwguard.db* file. The *ngwguard.fbk* file is so important that an additional copy of it is kept in the *ofmsg\guardbak* subdirectory in case the copy in the post office directory is inadvertently deleted. See “Guardian Databases” in “Databases” in the *GroupWise 8 Administration Guide*.

7.2.17 **ngwguard.rfl file**

The *ngwguard.rfl* file in the **post office** is a roll-forward transaction log of every database transaction that has taken place since the last copy of the *ngwguard.fbk* file was created. See “Guardian Databases” in “Databases” in the *GroupWise 8 Administration Guide*.

7.2.18 **ngwcheck.db**

The *ngwcheck.db* file in the **post office** is the database that controls GWCheck’s multithreaded processing. It contains job and task records that are used to synchronize and summarize GWCheck requests as they progress.

7.3 **MTA Local Queue Directory**

- **mslocal**
  - **mmddxxx.nn**
  - **msglog**
    - **mmddmsg.nn**
  - **gwinprog**
    - **0-7**
  - **msmshold**
  - **domainms**
    - **0-7**
    - **mtaname**

MTA local working directory
MTA log files on NetWare and Windows
Message logging directory
Message logging files
MTA "in progress" queue directory
Priority subdirectories
MTA holding directory
Processing directory for MTA
Priority subdirectories
Location identifier
7.3.1 mslocal directory

The mslocal directory is the MTA local working directory. The /work startup switch of the MTA specifies the location of the mslocal directory. It must be located on the hard disk of the server where the MTA runs so it is always accessible. Adequate disk space must be available to hold messages going to destinations that are temporarily closed.

Initially, the mslocal directory is created as a subdirectory of the domain directory. If the MTA runs on a different server from where the domain directory structure is located, typical locations for the mslocal directory include:

- `sys:\system` on a NetWare server
- `c:\` on a Windows server

To move the mslocal directory to the server where the MTA is running, stop the MTA, the copy the mslocal directory, along with all of its subdirectories, to the new location. Then restart the MTA and specify the new location using the /work startup switch.

Historical Note: In earlier versions of GroupWise, the Message Transfer Agent (MTA) was called the Message Server (MS). Hence, the ms indicator representing the MTA. Some naming conventions were originally preserved for backward compatibility.

**mmddxxx.nnn files**

The mmddxxx.nnn file are MTA log files. The MTA creates log files to inform you of its processing and any problems it encounters. By default, these log files are created in the mslocal directory. You can change the location if needed. See “Using MTA Log Files” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

The first two digits of the filename represent the month; the next two digits represent the day of the month; the next three characters indicate what program created the log. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518mta.002 is the second MTA log file created on May 18.

On Linux, the MTA log files are stored in the /var/log/novell/groupwise/domain.mta directory

Historical Note: In earlier versions of GroupWise, the Message Transfer Agent (MTA) was called the Message Server (MS). Hence, the ms indicator representing the MTA. Some naming conventions were originally preserved for backward compatibility.
7.3.2 **msglog directory**

The `msglog` subdirectory contains message logging files. It is created when you turn on message logging. The MTA receiver threads log messages as they arrive so the MTA worker threads can process messages without having to scan the MTA input queues to look for work.

The resources used for message logging are configurable. See “Optimizing the Routing Queue” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

More detailed message logging by the MTA is also available, but is turned off by default. See “Enabling MTA Message Logging” in “Configuring the MTA” in the *GroupWise 8 Administration Guide*.

**mmddmsg.nnn files**

The `mmddmsg.nnn` files in the message logging subdirectory (`msglog`) in the MTA local directory are used by the MTA to track messages in its “in progress” queue.

The first two digits of the filename represent the month; the next two digits represent the day of the month. The three-digit extension is a sequence number for multiple files created on the same day. For example, `0518msg.002` is the second message logging file created on May 18.

7.3.3 **gwinprog directory**

The `gwinprog` subdirectory is the MTA “in progress” queue. It contains eight priority subdirectories parallel to those found in `wpcsin`. All messages for recipients in the domain pass through `gwinprog`, no matter whether they arrived by way of TCP/IP or by way of message files deposited into the MTA input queue by a POA or another MTA.

The resources used to process the “in progress” queue are configurable. See “Optimizing the Routing Queue” in “Optimizing the MTA” in the *GroupWise 8 Administration Guide*.

7.3.4 **mshold directory**

The `mshold` subdirectory is a holding queue for messages addressed to domains, post offices, or gateways that are currently closed.

A location might be closed because its server is down or because the MTA is unable to communicate with it for any other reason. When a closed location is again open, the MTA moves messages from the holding queue back into the normal message flow.

Historical Note: In earlier versions of GroupWise, the Message Transfer Agent (MTA) was called the Message Server (MS). Hence, the `ms` in `mshold`. Some naming conventions were originally preserved for backward compatibility.

7.3.5 **domainms directory**

The `domainms` subdirectory in the holding directory (`mshold`) is used for internal processing by the MTA. It does not contain any files a GroupWise administrator needs to access.

Historical Note: In earlier versions of GroupWise, the Message Transfer Agent (MTA) was called the Message Server (MS). Hence, the `ms` in `domainms`. Some naming conventions were originally preserved for backward compatibility.
7.3.6 **postx directories**

The postx subdirectories in the holding directory (mshold) represent post offices in the domain. If a post office is closed, the MTA routes messages for that post office into its holding queue in mshold. When the post office is open, the MTA moves the messages from the holding queue back into the regular message flow. For more information, see “Message Delivery to a Different Post Office” on page 19.

The name of the holding queue for each post office consists of the first three characters of the post office name, followed by four hashed characters to ensure uniqueness.

7.3.7 **gatewayx directories**

The gatewayx subdirectories in the holding directory (mshold) represent gateways in the domain. If a gateway is closed, the MTA routes messages for that gateway into its holding queue in mshold. When the gateway is open, the MTA moves the messages from the holding queue back into the regular message flow through the gateway.

The name of the holding queue for each gateway consists of the first three characters of the gateway name, followed by four hashed characters to ensure uniqueness.

7.3.8 **domainx directories**

The domainx subdirectories in the holding directory (mshold) represent domains to which the current domain has a direct link. If a domain is closed, the MTA routes messages for that domain into its holding queue in mshold. When the domain is open, the MTA moves the messages from the holding queue back into the regular message flow. For more information, see “Message Delivery to a Different Domain” on page 25.

The name of the holding queue for each domain consists of the first three characters of the domain name, followed by four hashed characters to ensure uniqueness.

7.3.9 **0-7 directories**

The priority 0-7 subdirectories in each holding queue in the mshold subdirectory correspond to the priority 0-7 subdirectories located in each domain, post office, or gateway. See the following directory structures for more information about its priority 0-7 subdirectories:

- Section 7.1, “Domain Directory,” on page 57
- Section 7.2, “Post Office Directory,” on page 64

7.3.10 **mtaname files**

The mtname files in the closed location holding queues provide the name associated with the domain, post office, or gateway holding queue. They can help you check links between MTAs in ConsoleOne without going to the MTA agent console to determine the location name. To associate a location name with its holding queue directory from the MTA agent console, click Configuration Status > select the location > click Details.
7.3.11 **gwvsscan directory**

The `gwvsscan` subdirectory is the working directory where third-party virus scanning programs that snap in to the MTA can perform their processing.

7.3.12 **mtaconv directory**

The `mtaconv` subdirectory is the working directory where the MTA converts GroupWise 8, 7, 6.x, and 5.x messages to 4.x format for transfer to a GroupWise 4.x system. After the conversion is finished, this directory should be empty.

7.4 **WebAccess Agent Queue Directory**

The following directories and files are found under the `\domain\wpgate\` structure for the WebAccess Agent after the software has been installed and the WebAccess Agent has processed messages.

- **domain\wpgate\webac80a** (GroupWise WebAccess Agent home directory)
- **000.prc** (WebAccess Agent log file processing directory)
- **gwork** (Hold directory for temporary files used during processing)
- **mmd\web.nnn** (WebAccess Agent log files)
- **wpcs\in** (MTA input queue directory)
- **0-7** (Message priority subdirectories)
- **wpcs\out** (MTA output queue)
- **web\xxxx** (System-defined directory for the WebAccess Agent)
- **0-7** (Message priority subdirectories)
- **problem** (Hold directory for damaged outbound messages)
- **gwhold** (Hold directory for delayed delivery messages)
- **gwprob** (Hold directory for damaged inbound messages)
- **template** (Directory for templates for viewing documents)
- **commgr.cfg** (Communications Manager configuration file)
- **comint.cfg** (Communications initialization configuration file)
- **mimetype.cfg** (MIME encoding configuration file for various file types)
- **gwac.db** (Access control database)
- **gwac.dc** (Database dictionary file used to create the gwac.db file)

7.4.1 **domain\wpgate\webac80a directory**

The `domain\wpgate\webac80a` directory is the WebAccess Agent home directory where WebAccess Agent configuration files and queue directories are located. The name is established when you install the WebAccess Agent. The default is `wpgate\webac80a` in the `domain` directory. You can change the location using the `/home` startup switch in the WebAccess Agent configuration file (`webac80a.waa` in the WebAccess Agent installation directory).
7.4.2 000.prc directory

The NetWare and Windows WebAccess Agents use the 000.prc directory to store log files. On Linux, the 000.prc directory is located under /var/log.

mmddlog.nnn file

The mmddlog.nnn files hold error and status messages about the functioning of the WebAccess Agent. The WebAccess Agent creates a log file each day with a unique name, where mm is the month, dd is the day, and nnn is a sequential number indicating the sequence of log files in a single day. For more information about log files, see “Controlling WebAccess Agent Logging” in “WebAccess” in the GroupWise 8 Administration Guide.

7.4.3 wpcsin directory

No longer used. The WebAccess Agent and the MTA communicate by way of TCP/IP and do not need queue directories.

7.4.4 wpcsout directory

No longer used.

7.4.5 gwhold directory

No longer used.

7.4.6 gwprob directory

No longer used.

7.4.7 template directory

The template directory holds the HTML templates used for viewing documents in HTML format.

7.4.8 commgr.cfg file

The commgr.cfg file in the WebAccess Agent queue directory contains information for communication between the WebAccess Agent and the WebAccess Application, including the IP address and port where the WebAccess Agent is running, the number of threads that are running, and the encryption key for the WebAccess Agent. This communications information is gathered during installation. For more information, see “Configuring the GroupWise Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

As part of the installation process, the commgr.cfg file is automatically copied to the Web server installation (sys:\Novell\GroupWise\WebAccess on NetWare, /var/opt/novell/groupwise/webaccess on Linux, and c:\Novell\GroupWise\WebAccess on Windows). The copies are synchronized automatically by the WebAccess Application. The commgr.cfg file is also copied to the webpublisher subdirectory on the Web server.
7.4.9 comint.cfg file

The comint.cfg file in the WebAccess Agent queue directory is read by the WebAccess Agent on startup. It contains the same communications information as the commgr.cfg file and is synchronized with it automatically.

7.4.10 mimetype.cfg file

The mimetype.cfg file enables you to customize MIME content-type mappings for various attachment types. The WebAccess Agent handles this just as the Internet Agent does. For more information, see “Customizing MIME Content-Type Mappings” in “Internet Agent” in the GroupWise 8 Administration Guide.

7.4.11 gwac.db file

The gwac.db file is the access control database that stores information about the classes of service you have created. For more information, see “Maintaining the Access Database” in “WebAccess” in the GroupWise 8 Administration Guide.

7.4.12 gwac.dc file

The gwac.dc file is the data dictionary file from which the gwac.db is created.

7.5 Internet Agent Queue Directory

The following directories and files are found under the \domain\wpgate\structure for the Internet Agent after the software has been installed and the Internet Agent has processed messages.

- **domain\wpgate\gwia**: GroupWise Internet Agent home directory
  - 000.prc: Internet Agent message processing directory
  - cmd: Not currently used
  - gwork: Hold directory for temporary files used during processing
  - mmdlog.nnn: Log files
  - acct: Accounting file
  - set: Settings file for screen colors, log levels, and so on
  - stat: Statistics file for Internet Agent operation
  - proc: Process lock file indicating that the Internet Agent is running
  - pulse.tmp: Temporary file to verify Internet Agent operation
- **wpcsin**: MTA input queue directory
  - 0-7: Message priority subdirectories
- **wpcsout**: MTA output queue
  - gwixxxx: System-defined directory
  - 0-7: Message priority subdirectories
  - problem: Hold directory for damaged outbound messages
- **gwhold**: Message hold directory
  - qfiles: Delayed delivery hold directory
<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>gwprob</td>
<td>Hold directory for damaged inbound messages</td>
</tr>
<tr>
<td>gwchars</td>
<td>Directory for character conversion tables</td>
</tr>
<tr>
<td>save</td>
<td>Directory for old configuration files from reinstalls or upgrades</td>
</tr>
<tr>
<td>gwia.cfg</td>
<td>Internet Agent configuration file for startup switches</td>
</tr>
<tr>
<td>route.cfg</td>
<td>Route configuration file to customize routing</td>
</tr>
<tr>
<td>gwauth.cfg</td>
<td>Host authentication configuration file</td>
</tr>
<tr>
<td>mimetype.cfg</td>
<td>MIME encoding configuration file for various file types</td>
</tr>
<tr>
<td>exepath.cfg</td>
<td>Configuration file pointing ConsoleOne to the gwia.cfg file</td>
</tr>
<tr>
<td>frgnames.cfg</td>
<td>Foreign domain name configuration file</td>
</tr>
<tr>
<td>xspam.cfg</td>
<td>Anti-spam configuration file</td>
</tr>
<tr>
<td>gwac.db</td>
<td>Access control database</td>
</tr>
<tr>
<td>gwac.dc</td>
<td>Database dictionary file used to create the access control database</td>
</tr>
<tr>
<td>preamble.txt</td>
<td>Message for recipients who lack a MIME-compliant mail reader</td>
</tr>
<tr>
<td>preamble.all</td>
<td>Preamble message in various languages</td>
</tr>
<tr>
<td>blocked.txt</td>
<td>List of blocked Internet sites</td>
</tr>
<tr>
<td>statusxx.xml</td>
<td>File for customizing status messages</td>
</tr>
</tbody>
</table>

### 7.5.1 \texttt{domain\wpgate\gwia} directory

The \texttt{domain\wpgate\gwia} directory is the GroupWise Internet Agent home directory where Internet Agent configuration files and queue directories are located. The name is established when you install the Internet Agent. The default is \texttt{wpgate\gwia} in the \texttt{domain} directory. You can change the location using the \texttt{/home} startup switch in the Internet Agent configuration file (\texttt{gwia.cfg}).

### 000.prc directory

The Internet Agent uses the \texttt{000.prc} directory to process messages.

### gwwork directory

The \texttt{gwwork} directory stores temporary files created by the Internet Agent as it converts and builds messages for transfer across the Internet.
**mmddlog.nnn file**

The *mmddlog.nnn* files hold error and status messages about the functioning of the Internet Agent. The Internet Agent creates a log file each day with a unique name, where *mm* is the month, *dd* is the day, and *nnn* is a sequential number indicating the sequence of log files in a single day. For more information log files, see “Using Internet Agent Log Files” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**acct file**

The *acct* file contains information about the messages the Internet Agent sends each day. It is e-mailed to the accounts each day at midnight. For more information about the accounting files, see “Tracking Internet Traffic with Accounting Data” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**set file**

The *set* file stores Internet Agent console settings such as color, log settings, and so on. For more information, see “Using the Internet Agent Server Console”.

**stat file**

The *stat* file stores statistics about the Internet Agent’s functioning. For information about the statistics provided by the Internet Agent, see “Statistics” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**proc file**

The *proc* file is the lock file for the Internet Agent process. The proc file is opened and locked when the Internet Agent starts. This prevents multiple Internet Agents from being started for the same domain.

**pulse.tmp file**

The *pulse.tmp* file is re-created by the Internet Agent every time it completes a cycle (after an idle loop). If you are not at the Internet Agent console but need to know if the Internet Agent is running, you can delete the *pulse.tmp* file. If the Internet Agent is running, it re-creates the file.

**wpcsln directory**

For a mapped/UNC link, the Internet Agent places inbound messages in one of the *wpcsln* priority subdirectories (0-7). Most messages go in the 4 directory, although some administrative and status messages might go in other directories. The Message Transfer Agent retrieves the messages and delivers them to the proper destinations.

For a TCP/IP link, the Internet Agent and the MTA communicate by way of TCP/IP rather than by transferring message files. For a comparison, see Chapter 4, “Message Delivery to and from the Internet,” on page 33.
**wpcsout directory**

For a mapped/UNC link, the wpcsout directory is the MTA output queue as well as being the Internet Agent input queue.

For a TCP/IP link, the Internet Agent and the MTA communicate by way of TCP/IP rather than by transferring message files. For a comparison, see Chapter 4, “Message Delivery to and from the Internet,” on page 33.

**gwixxxx directory**

The gwixxxx directory is a system-defined directory, where gwi represents the first three letters of the Internet Agent object name as defined during installation and displayed in ConsoleOne, and xxxx is a randomly-generated string. Here, the Message Transfer Agent places outbound messages in the appropriate 0-7 priority subdirectory for the Internet Agent to retrieve and process.

**problem directory**

The problem directory holds messages that the MTA cannot process.

You should check this directory periodically for problem files, resolve the problem, then place the files back into the appropriate queue for continued processing. For assistance, see “Message Is Dropped in the problem Directory in the Domain” in “Strategies for Message Delivery Problems” in the GroupWise 8 Troubleshooting 2: Solutions to Common Problems.

**gwhold directory**

The gwhold directory holds messages that are scheduled for delayed delivery.

**qfiles directory**

The qfiles directory holds messages that cannot be sent during the current Send/Receive cycle. The messages are queued to this directory until the next cycle.

The delayed delivery messages waiting in the qfiles directory remain in encrypted format until the Internet Agent transfers them to the send directory for processing by the SMTP service.

**gwprob directory**

The Internet Agent uses the gwprob directory for messages it cannot process. These are usually messages that have been damaged during transmission or that contain incorrectly formed MIME data.

These messages cannot be recovered. You can delete them to conserve disk space.

**gwchars directory**

This directory contains conversion tables that the Internet Agent uses to convert message attachments between character sets.

**save directory**

If you reinstall or upgrade the Internet Agent, your old configuration files are copied to the save directory as a backup. If you reinstall or upgrade repeatedly, the files are overwritten each time.
**gwia.cfg file**

The *gwia.cfg* file is the Internet Agent configuration file that contains startup switches. Some switches are set during installation. You can set others as needed. For more information, see “Using Internet Agent Startup Switches” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

<table>
<thead>
<tr>
<th>Environment</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetWare: The NetWare Internet Agent uses the <em>gwia.cfg</em> file created in <code>sys:\system</code> during installation. The <em>gwia.cfg</em> file under the domain is just a boilerplate file with no switches set during installation.</td>
<td></td>
</tr>
<tr>
<td>Linux: The Linux Internet Agent uses the <em>gwia.cfg</em> file created in <code>/opt/novell/groupwise/agents/share</code> during installation. The <em>gwia.cfg</em> file under the domain is just a boilerplate file with no switches set during installation.</td>
<td></td>
</tr>
<tr>
<td>Windows: Only the Windows Internet Agent actually uses the <em>gwia.cfg</em> file under the domain.</td>
<td></td>
</tr>
</tbody>
</table>

**route.cfg file**

The *route.cfg* file enables you to customize routing for specific hosts. For more information, see “Using a Route Configuration File” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**gwauth.cfg file**

The *gwauth.cfg* file enables the Internet Agent to log in to SMTP hosts that require authentication. For more information, see “SMTP Host Authentication” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**mimetype.cfg file**

The *mimetype.cfg* file enables you to customize MIME content-type mappings for various attachment types. For more information, see “Customizing MIME Content-Type Mappings” in “Internet Agent” in the *GroupWise 8 Administration Guide*.

**exepath.cfg file**

The *exepath.cfg* file is used by ConsoleOne to locate the *gwia.cfg* file. This enables ConsoleOne to write any configuration setting changes to the *gwia.cfg* file or update Novell eDirectory with any changes from the file. The file must contain the path to the *gwia.cfg* file in the `sys:\system` directory on NetWare, the `/opt/novell/groupwise/agents/share` directory on Linux, or the `domain\wpgate\gwia` directory on Windows.

**frgnames.cfg file**

The *frgnames.cfg* file lets you list more Internet domain names than can fit in the *Foreign ID* field on the Identification page of the Internet Agent object in ConsoleOne. For more information, see “Configuring How the Internet Agent Handles E-Mail Addresses” in “Internet Agent” in the *GroupWise 8 Administration Guide*.
xspam.cfg file

The xspam.cfg file lists “X” header fields that your anti-spam service writes to the MIME header, along with the values that flag the message as spam. The Internet Agent examines the MIME header for any field listed in the xspam.cfg file. When a match occurs, the message is marked for handling by the GroupWise client Junk Mail Handling feature. For more information, see “Customized Spam Identification” in “Internet Agent” in the GroupWise 8 Administration Guide.

gwac.db file

The gwac.db file is the access control database that stores information about the classes of service you have created. For more information, see “Maintaining the Access Control Database” in “Internet Agent” in the GroupWise 8 Administration Guide.

gwac.dc file

The gwac.dc file is the data dictionary file from which the gwac.db is created.

preamble.txt file

The preamble.txt file is an ASCII text file that is automatically included with any MIME multipart message and is displayed when the message recipient lacks a MIME-compliant mail reader. For more information, see “Customizing MIME Preamble Text” in “Internet Agent” in the GroupWise 8 Administration Guide.

preamble.all file

The preamble.all file contains the preamble text in multiple languages. For more information, see “Customizing MIME Preamble Text” in “Internet Agent” in the GroupWise 8 Administration Guide.

blocked.txt file

The blocked.txt file contains a list of Internet sites that you have added to the Prevent Messages From list for your default class of service in ConsoleOne. For more information, see “Controlling User Access to the Internet” in “Internet Agent” in the GroupWise 8 Administration Guide.

statusxx.xml file

The statusxx.xml file enables you to customize the messages that users receive regarding message delivery status. For more information, see “Customizing Delivery Status Notifications” in “Internet Agent” in the GroupWise 8 Administration Guide.

7.5.2 gwia directory

The gwia directory is the SMTP service (daemon) home directory where messages are converted between GroupWise format and Internet format. On NetWare and Linux, the default location is wpgate/gwia, the same as the Internet Agent home directory. On Windows, the default location is the Internet Agent installation directory. You can change the location using the /dhome startup switch in the Internet Agent configuration file (gwia.cfg).
send directory

The Internet Agent SMTP service places outbound messages in the send directory after they have been converted out of GroupWise format into SMTP format. The SMTP service polls the send directory and sends any messages to the destination SMTP host.

receive directory

The Internet Agent SMTP service places inbound messages in the receive directory, converts them into GroupWise format, and then passes them to the Message Transfer Agent by placing them in the wpcs in directory.

result directory

When the Internet Agent SMTP service processes the message, it builds a file, r*.*, in the result directory that contains several lines of comments and SMTP reply codes, which might indicate possible errors or confirm correct transmission. After the Internet Agent SMTP service has completed the transmission with the destination host, it moves another file, s*.*, from the send directory to the result directory. The filenames for both files are identical, except for the first letter, which is either “s” or “r”. The s*.* file is the converted message file. The SMTP service looks at the “s” and “r” files in the result directory and compares the conversation. If the r*.* file contains the correct (250 OK) SMTP reply codes, the SMTP service deletes the file and sends a transferred status message to the user’s Sent Items folder in the GroupWise client.

defer directory

The defer directory holds messages that are deferred and re-queued according to the Retry Schedule. If the Internet Agent SMTP service receives a temporary error, such as Host Down, it places the message in the defer directory for a specified time, then transfers the file to the send directory for another attempt at sending to the Internet. For more information, see “Configuring Basic SMTP/MIME Settings” in “Internet Agent” in the GroupWise 8 Administration Guide.

dsnhold directory

The dsnhold directory stores header information for inbound messages that request delivery status notifications. For more information, see “Using Extended SMTP (ESMTP) Options” in “Internet Agent” in the GroupWise 8 Administration Guide.

7.6 Caching Mailbox Directory

```
c:\Documents and Settings\username\Local Settings\Application Data\Novell\GroupWise\gwxxx
xxx  GroupWise Caching mailbox on Windows XP

c:\User\username\AppData\Local\Novell\GroupWise\gwxxx
xxx  GroupWise Caching mailbox on Windows Vista

/home/username/gwcache/gwxxxxxxx  GroupWise Caching mailbox on Linux
```
Your GroupWise Caching mailbox is a directory structure that functions similarly to a post office. Like a post office, it contains databases and input/output queues. The default location varies by platform.

For the Windows client, the same directory structure is used for a Caching mailbox as for a Remote mailbox. However, a Caching mailbox is a complete copy of your Online mailbox, but you can restrict what gets downloaded into your Remote mailbox. The Linux/Mac client does not include the Remote mailbox feature.

7.6.1 gwxxxxxx directory

Your GroupWise Caching mailbox is a directory structure that functions similarly to a post office. Like a post office, it contains databases and input/output queues. The default location varies by platform.

For the Windows client, the same directory structure is used for a Caching mailbox as for a Remote mailbox. However, a Caching mailbox is a complete copy of your Online mailbox, but you can restrict what gets downloaded into your Remote mailbox. The Linux/Mac client does not include the Remote mailbox feature.
7.6.2 rofdata directory

The rofdata directory contains the databases accessed by the GroupWise client when running in Caching mode. The databases in rofdata are similar to the databases found in post offices. For comparison, see Section 7.2, “Post Office Directory,” on page 64.

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the rof in rofdata. Some naming conventions were originally preserved for backward compatibility.

msg.db file

The msg.db file is the cached equivalent of the msgnnn.db files in the ofmsg directory in your post office. The msg.db file contains copies of messages from your Online mailbox.

user.db file

The user.db file is the cached equivalent of the userxxx.db files in the ofuser directory in your post office.

wprof.db file

The wprof.db file contains the cached version of the GroupWise Address Book.

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the wprof in wprof.db. Some naming conventions have been preserved for backward compatibility.

wprof.dc file

The wprof.dc file is the data dictionary for the cached Address Book (wprof.db).

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the wprof in wprof.dc. Some naming conventions have been preserved for backward compatibility.

ngwguard.db file

The ngwguard.db file is the guardian database for your Caching mailbox. It is parallel in function to the ngwguard.db file in the post office.

ngwguard.dc file

The ngwguard.dc file is the data dictionary for building the databases in the GroupWise Caching mailbox. It is parallel in function to the ngwguard.dc file in the post office.

ngwguard rfl file

The ngwguard rfl file is a roll-forward transaction log of every database transaction that has taken place since the last copy of the ngwguard.fbk file was created. It is parallel in function to the ngwguard rfl file in the post office.
ngwguard.fbk

The ngwguard.fbk file “fall back” copy of the ngwguard.db file. It is parallel in function to the ngwguard.fbk file in the post office.

puxxxxx.db files

The puxxxxx.db files are databases for replicated items such as shared folders. These databases prevent conflicts between user names of shared items from users in other post offices and user names in your own post office. They are parallel to the puxxxxx.db files in the post office.

ngwcheck.db file

The ngwcheck.db file tracks GroupWise Check threads and the databases being checked. In the GroupWise client, GroupWise Check is run using Tools > Repair Mailbox.

gwcheckn.log

The gwcheckn.log file records any errors that occurred during mailbox repair. For assistance with GroupWise Check errors, see “GroupWise Check Error Codes” in “Administration Error Messages” in the GroupWise 8 Troubleshooting 1: Error Messages.

gwdms directory

The gwdms directory is the Document Management Services directory. It contains information about the libraries in your GroupWise system. It has the same structure as the gwdms subdirectory in the post office.

dmsh.db file

The dmsh.db file is a database shared by all libraries that contains a list of all available libraries and lookup tables for each library.

dmxxn01-FF.db files

The dmxxn01-FF.db files are databases for library and document information. They are parallel to the dmxxn01-FF.db files in the post office.

docs directory

The docs directory holds cached copies of the documents in your Online mailbox.

index directory

The index directory under the gwdms directory contains the QuickFinder index for the documents in your Caching mailbox.

index directory

The index directory under the rofdata directory contains the QuickFinder index for the messages in your Caching mailbox.
7.6.3 wpcsin directory

The *wpcsin* subdirectory is the input queue for the connection that transfers messages to your GroupWise system for delivery. Messages from the GroupWise client in Caching mode are processed through the priority 1 subdirectory of *wpcsin*.

When you send a message in Caching mode, the GroupWise client connects to your GroupWise system. It polls the *wpcsin\1* directory and compresses any outgoing messages, requests, or both into a file. If the compressed file totals over 50 KB, additional compressed files are created. The GroupWise client then moves the compressed files into the *wpgwsend* directory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name *wpcsin* for the input queue, although the MTA is not involved in processing messages in your Caching mailbox. Some naming conventions were originally preserved for backward compatibility.

0-7 directories

The priority 0-7 subdirectories in the connection input queue (*wpcsin*) parallel those found in the *wpcsin* directory in your post office.

7.6.4 wpcsout\ofs directory

The *wpcsout\ofs* directory is the output queue for the connection that transfers messages from your Online mailbox. Messages from your GroupWise system are processed through the priority 1 subdirectory of *wpcsout\ofs*.

The GroupWise client scans the *wpcsout\ofs\1* subdirectory and updates the *user.db* and *msg.db* files with the information received from your Online mailbox.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory names *wpcsin* and *ofs* for the input queue, though the MTA is not involved in processing messages in your Remote mailbox. Some naming conventions were originally preserved for backward compatibility.

0-7 directories

The priority 0-7 subdirectories in the connection output queue (*wpcsout\ofs*) parallel those found in the *ofs* directory in your post office.

7.6.5 wpgwsend directory

The *wpgwsend* directory holds compressed files that contain outgoing messages, requests, or both. When a connection to your GroupWise system is established, the GroupWise client uploads the files to your Online mailbox.

Historical Note: WP Office Remote, the predecessor of the GroupWise client Remote mode, was originally designed by WordPerfect Corporation (WPCorp). Hence, the name *wpgwsend*. Some naming conventions were originally preserved for backward compatibility.
7.6.6 wpgwrecv directory

The wpgwrecv directory holds compressed files that contain messages or other information that have been received from your Online mailbox. The GroupWise client decompresses the files and places the message files into the wpcsout\ofs\1 directory.

Historical Note: WP Office Remote, the predecessor of the GroupWise client Remote mode, was originally designed by WordPerfect Corporation (WPCorp). Hence, the name wpgwrecv. Some naming conventions were originally preserved for backward compatibility.

7.6.7 remoten.log

The remoten.log files are saved versions of the connection logs you can view in the GroupWise client by clicking Accounts > Connection Log. These log files can be useful for troubleshooting problems with your connection to your Online mailbox.

7.7 Remote Mailbox Directory

- remote_mailbox
  - GroupWise mailbox on a remote computer
- rofdata
  - Remote database directory
  - msg.db
    - Remote message database
  - user.db
    - Remote user database
  - wprof.db
    - Remote Address Book
  - wprof.dc
    - Data dictionary for Remote Address Book
  - ngwguard.db
    - Remote guardian database
  - ngwguard.db
    - Data dictionary for Remote guardian database
  - ngwguard.dc
    - Guardian database roll forward log
  - ngwguard.fbk
    - Guardian database “fall back” file
  - puuxxxx.db
    - Database for shared folders
  - ngwcheck.db
    - GroupWise Check database
  - gwcheckn.log
    - Log file created by the Repair Mailbox feature
- gwdms
  - Document Management Services directory
  - dm.sh.db
    - Shared DMS database
  - dmxxnn01-FF.db
    - Document databases
  - docs
    - Subdirectory for documents in the Remote mailbox
  - index
    - QuickFinder index for Remote mailbox
  - index
    - QuickFinder index for messages in the Remote mailbox
  - wpcsin
    - Input queue for the GroupWise client in Remote mode
    - 0-7
      - Priority subdirectories
  - wpcsout\ofs
    - Output queue for the GroupWise client in Remote mode
    - 0-7
      - Priority subdirectories
  - wpgwsend
    - Output queue to master mailbox
  - wpgwrecv
    - Input queue from master mailbox
7.7.1 remote_mailbox directory

The GroupWise remote mailbox is a directory structure that functions similarly to a post office. Like a post office, it contains databases and input/output queues.

7.7.2 rofdata directory

The rofdata subdirectory in the remote mailbox directory contains the databases accessed by the GroupWise client in Remote mode. The databases in rofdata are similar to the databases found in post offices.

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the rof in rofdata. Some naming conventions were originally preserved for backward compatibility.

msg.db file

The msg.db file in the remote data directory (rofdata) in the remote mailbox directory is the remote equivalent of the msgnnn.db files in the ofmsg directory in the post office where your master mailbox is located. The msg.db file contains messages you have downloaded from your master mailbox.

user.db file

The user.db file in the remote data directory (rofdata) in the remote mailbox directory is the remote equivalent of the userxxx.db files in the ofuser directory in the post office where your master mailbox is located. The user.db file contains user information you have downloaded from your master mailbox.

wprof.db file

The wprof.db file in the remote data directory (rofdata) in the Remote mailbox directory contains the remote version of the GroupWise Address Book if you have downloaded it.

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the wprof in wprof.db. Some naming conventions have been preserved for backward compatibility.

wprof.dc file

The wprof.dc file in the remote data directory (rofdata) in the Remote mailbox directory is the data dictionary for the remote Address Book (wprof.db).

Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the wprof in wprof.dc. Some naming conventions have been preserved for backward compatibility.
ngwguard.db file

The ngwguard.db file in the remote data directory (rofdata) in the Remote mailbox directory is the guardian database for the remote GroupWise mailbox. It is parallel in function to the ngwguard.db file in the post office.

ngwguard.dc file

The ngwguard.dc file in the remote data directory (rofdata) in the Remote mailbox directory is the data dictionary for building the databases in the remote GroupWise mailbox. It is parallel in function to the ngwguard.dc file in the post office.

ngwguard.rfl file

The ngwguard.rfl file is a roll-forward transaction log of every database transaction that has taken place since the last copy of the ngwguard.fbk file was created. It is parallel in function to the ngwguard.rfl file in the post office.

ngwguard.fbk

The ngwguard.fbk file “fall back” copy of the ngwguard.db file. It is parallel in function to the ngwguard.fbk file in the post office.

puxxxxx.db files

The puxxxxx.db files in the remote data directory (rofdata) in the Remote mailbox directory are databases for replicated items such as shared folders. These databases prevent conflicts between user names of shared items from users in other post offices and user names in the Remote user’s post office. They are parallel to the puxxxxx.db files in the post office.

ngwcheck.db file

The ngwcheck.db file tracks GroupWise Check threads and the databases being checked. In Remote mode in the GroupWise client, GroupWise Check is run using Tools > Repair Mailbox.

gwcheckn.log

The gwcheckn.log file records any errors that occurred during Remote mailbox repair. For assistance with GroupWise Check errors, see “GroupWise Check Error Codes” in “Administration Error Messages” in the GroupWise 8 Troubleshooting 1: Error Messages.

gwdms directory

The gwdms subdirectory in the remote data directory (rofdata) in the Remote mailbox directory is the Document Management Services directory. It contains the document libraries you have downloaded from your master GroupWise system. It has the same structure as the gwdms subdirectory in the post office.

dmsh.db file

The dmsh.db file is a database shared by all libraries that have been downloaded to your remote GroupWise mailbox. It contains a list of all available libraries and lookup tables for each library.
dmxxnn01-FF.db files

The dmxxnn01-FF.db files are databases for library and document information. They are parallel to the dmxxnn01-FF.db files in the post office.

docs directory

The docs directory holds cached copies of the documents in your Remote mailbox.

index directory

The index directory contains the QuickFinder index for the documents contained in the library.

index directory

The index directory under the rofdata directory contains the QuickFinder index for the messages in your Remote mailbox.

7.7.3 wpcsin directory

The wpcsin subdirectory in the remote mailbox directory is the input queue for the connection that transfers messages to your master GroupWise system. Messages from the GroupWise client in Remote mode are processed through the priority 1 subdirectory of wpcsin.

When the user initiates the connection to the master GroupWise system, the GroupWise client polls the wpcsin\1 directory and compresses the outgoing messages, requests, or both into a file. If the compressed file totals over 50 KB, additional compressed files are created. The GroupWise client then moves the compressed files into the wpgwsend directory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory name wpcsin for the input queue, although the MTA is not involved in processing messages in your Remote mailbox. Some naming conventions were originally preserved for backward compatibility.

0-7 directories

The priority 0-7 subdirectories in the connection input queue (wpcsin) in the remote mailbox directory parallel those found in the wpcsin directory in the remote user’s post office on the master GroupWise system.

7.7.4 wpcsout\ofs directory

The wpcsout\ofs subdirectory in the remote mailbox directory is the output queue for the connection that transfers messages from your master GroupWise system. Messages from the GroupWise client in Remote mode are processed through the priority 1 subdirectory of wpcsout\ofs.

In Remote mode, the GroupWise client scans the wpcsout\ofs\1 subdirectory and updates the user.db and msg.db files with the information received from the master mailbox.
Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). The Message Transfer Agent (MTA) was originally named the Connection Server (CS). Hence, the directory names wpcsin and ofs for the input queue, though the MTA is not involved in processing messages in your Remote mailbox. Some naming conventions were originally preserved for backward compatibility.

0-7 directories

The priority 0-7 subdirectories in the connection output queue (wpcsout\ofs) in the remote mailbox directory parallel those found in the ofs subdirectory in the remote user’s post office on the master GroupWise system.

7.7.5 wpgwsend directory

The wpgwsend subdirectory in the remote mailbox directory holds compressed files that contain outgoing messages, requests, or both. When a connection to your master GroupWise system is established, the GroupWise client uploads the files across the link from the remote computer to the master GroupWise system.

Historical Note: WP Office Remote, the predecessor of the GroupWise client Remote mode, was originally designed by WordPerfect Corporation (WPCorp). Hence, the name wpgwsend. Some naming conventions were originally preserved for backward compatibility.

7.7.6 wpgwrecv directory

The wpgwrecv subdirectory in the remote mailbox directory holds compressed files that contain messages or other information that have been downloaded from your master mailbox. The GroupWise client decompresses the files and places the message files into the wpcsout\ofs\1 directory.

Historical Note: WP Office Remote, the predecessor of the GroupWise client Remote mode, was originally designed by WordPerfect Corporation (WPCorp). Hence, the name wpgwrecv. Some naming conventions were originally preserved for backward compatibility.

7.7.7 remoten.log

The remoten.log files in the connection output queue (wpcsout\ofs) in the remote mailbox directory are saved versions of the connection logs you can view in the GroupWise client in Remote mode. These log files can be useful for troubleshooting problems with your modem or with your connection to your master GroupWise system.
Agent Installation Directories

- Section 8.1, “GroupWise Agent Installation (POA and MTA),” on page 99
- Section 8.2, “Internet Agent Installation,” on page 110
- Section 8.3, “WebAccess Agent Installation,” on page 117
- Section 8.4, “Monitor Agent Installation,” on page 127

8.1 GroupWise Agent Installation (POA and MTA)

The Post Office Agent (POA) and the Message Transfer Agent (MTA) are always installed together. The agent installation directory differs depending on the platform where the agents are installed.

- Section 8.1.1, “NetWare Installation Directory,” on page 99
- Section 8.1.2, “Linux Installation Directory,” on page 103

8.1.1 NetWare Installation Directory

```plaintext
sys:\system                    NetWare agent installation directory
    gwenn5.nlm                  GroupWise 8 Agent Engine
    gwpoa.nlm                   Post Office Agent (POA) program
    gwmta.nlm                   Message Transfer Agent (MTA) program
    strtupxx.poa                Boilerplate POA startup file
    strtupxx.mta                Boilerplate MTA startup file
    post_office.poa             POA startup file for a specific post office
    domain.mta                  MTA startup file for a specific domain
    gwpoanxx.hlp                POA online help files
    gwmtanxx.hlp                MTA online help files
    gwpoanxx.fil                POA language information files
    gwmtanxx.fil                MTA language information files
    grpwise.ncf                  Agent load file
    x*5.nlm                     XIS NLM programs
    gwxis12.nlm                 GroupWise XIS NLM program
    agent.xml                   XIS agent configuration files
```
When you first install GroupWise Administration, the GroupWise agents are installed in platform-specific subdirectories in the `agent` directory in the software distribution directory. However, the agents cannot be run from this initial location. They must be installed on the servers where they will run.

On a NetWare server, the GroupWise agents are typically installed in the `sys:\system` directory. You can choose a different location during installation.

**gwenn5.nlm file**

The `gwenn5.nlm` file is the GroupWise 8 Agent Engine, a program that is shared by all GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file-record locking)
- Date/time services

The first agent loaded on a server automatically loads the GroupWise Agent Engine.

**gwpoa.nlm file**

The `gwpoa.nlm` file is the Post Office Agent program. You load this NLM program to start the Post Office Agent. See “Starting the NetWare GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

**gwmta.nlm file**

The `gwmta.nlm` is the Message Transfer Agent program. You load this NLM program to start the Message Transfer Agent. See “Starting the NetWare GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.
strtupxx.poa file

The POA startup file contains startup switches for the POA. Switch settings placed in the POA startup file override comparable options set for the POA in ConsoleOne. The xx in the startup filename represents a two-letter language code.

During installation, a customized version of the POA startup file, named post_office.poa, is created. This customized version has the /home startup switch automatically set to the post office directory the POA will service. See “Using POA Startup Switches” in “Post Office Agent” in the GroupWise 8 Administration Guide.

strtupxx.mta file

The MTA startup file contains startup switches for the MTA. Switch settings placed in the MTA startup file override comparable options set for the MTA in ConsoleOne. The xx in the startup filename represents a two-letter language code.

During installation, a customized version of the MTA startup file, named domain.mta, is created. This customized version has the /home startup switch automatically set to the domain directory the MTA will service. See “Using MTA Startup Switches” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

nlm_agentnxx.hlp files

Online help is available by pressing F1 at the agent console on the server where it runs. See “Using the POA Server Console” in “Post Office Agent” and “Using the MTA Server Console” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

The first five characters of the filename are the agent name. The digit n is a version number. The last two characters xx are a language code.

nlm_agentnxx.fil files

These files contain all language-specific information for the POA and the MTA. The first five characters of the filename are the agent name. The digit n is a version number. The last two characters xx are a language code.

grpwise.ncf file

The grpwise.ncf file is the NetWare configuration file that automatically loads the agents whenever the server is restarted. A typical grpwise.ncf file would look similar to the following:

```plain
load sys:\system\gwmta.nlm @corpdom.mta
load sys:\system\gwpoa.nlm @acctpo.poa
```

For more information, see “Starting the NetWare GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

x*5.nlm and gwxis12.nlm files

The x*5.nlm and gwxis12.nlm programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.
nlm_agent.xml files

The nlm_agent.xml files are specialized agent configuration files for use in the XIS environment.

gwtsa.nlm file

The gwtsa.nlm file is the GroupWise Target Service Agent (GWTSA), which provides reliable backups of a running GroupWise system by successfully backing up open files and locked files, rather than skipping them as some backup software does. For more information, see “GroupWise Target Service Agent” in “Databases” in the GroupWise 8 Administration Guide.

gwtmstmp.nlm file

If you use the GroupWise Target Service Agent (GWTSA) of the GroupWise Target Server Agent for File Systems (TSASFSGW) to back up your GroupWise system, the time stamping is an automatic part of the backup process. However, if you choose not to use one of these TSAs, you must still make sure that user databases are time-stamped so that items are not prematurely purged. The gwtmstmp.nlm accomplishes this task. For more information, see “GroupWise Time Stamp Utility” in “Databases” in the GroupWise 8 Administration Guide.

dbcopy.nlm file

The dbcopy.nlm file is the GroupWise Database Copy utility, which copies files from a live GroupWise post office or domain to a static location for backup. During the copy process, DBCopy prevents the files from being modified, using the same locking mechanism used by other GroupWise programs that access databases. This ensures that the backed-up versions are consistent with the originals even when large databases take a substantial amount of time to copy. For more information, see “GroupWise Database Copy Utility” in “Databases” in the GroupWise 8 Administration Guide.

gwtsaxx.fil file

These files contain all language-specific information for the GWTSA. The last two characters, xx, are a language code.

gwtsa.ncf file

The gwtsa.ncf file is the NetWare configuration file that automatically loads the GWTSA whenever the server is restarted. A typical gwtsa.ncf file would look similar to the following:

```
load sys:\system\smdr
load sys:\system\gwtsa /home-sys:\gwsystem\corpdom /home-sys:\gwsystem\acctpo
```

help directory

The help directory contains language-specific subdirectories for the help files available from the POA and MTA Web consoles. See “Using the POA Web Console” in “Post Office Agent” and “Using the MTA Web Console” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.
8.1.2 Linux Installation Directory

```
/opt/novell/groupwise/agents
  bin
    gwpoa
    gwmta
    gwha
    gwpoa.xml
    gwmta.xml
    strtupxx.poa
    strtupxx.mta
    gwcsrgen
    gwtmstmp
  lib
    gwpoaxxx.fil
    gwmtaxxx.fil
    libpoa.so*
    libpoa_ui.so*
    libmta.so*
    libmta_ui.so*
    libgwha.so*
    *.so*
  image
  share
    post_office.poa
    domain.mta
    agtcon
      help
    webcon
      help
    gwcsrgen
      help
```

Linux agent installation directory

- **bin**: Subdirectory for GroupWise agent executables
  - gwpoa: Post Office Agent (POA) executable
  - gwmta: Message Transfer Agent (MTA) executable
  - gwha: GroupWise High Availability service executable
  - gwpoa.xml: POA XIS configuration file
  - gwmta.xml: MTA XIS configuration file
  - strtupxx.poa: Boilerplate POA startup file
  - strtupxx.mta: Boilerplate MTA startup file
  - gwcsrgen: GroupWise Generate CSR utility
  - gwtmstmp: GroupWise Time Stamp utility

- **lib**: Subdirectory for GroupWise agent library files
  - gwpoaxxx.fil: POA language information file
  - gwmtaxxx.fil: MTA language information file
  - libpoa.so*: POA shared library files
  - libpoa_ui.so*: POA shared library files for the optional user interface
  - libmta.so*: MTA-specific library files
  - libmta_ui.so*: MTA-specific library files for the optional user interface
  - libgwha.so*: GroupWise High Availability service library files
  - *.so*: Supporting library files

- **image**: Subdirectory for icon images

- **share**: Subdirectory for agent shared files
  - post_office.poa: POA startup file for a specific post office
  - domain.mta: MTA startup file for a specific domain

- **agtcon**: Subdirectory for agent console files
  - help: Subdirectory for agent console help files

- **webcon**: Subdirectory for agent Web console files
  - help: Subdirectory for agent Web console help files

- **gwcsrgen**: Subdirectory for the GWCSRGEN utility files
  - help: Subdirectory for GWCSRGEN utility help files

```
/etc/init.d
  grpwise
  rc3.d
    Snngrpwise
  rc5.d
    Snngrpwise
```

Standard Linux location for application startup scripts

- **etc/init.d**
  - grpwise: Startup script for the POA and MTA
  - rc3.d
    - Snngrpwise: Symbolic link to the startup script for the POA and MTA
  - rc5.d
    - Snngrpwise: Symbolic link to the startup script for the POA and MTA

Agent Installation Directories  103
agents directory

On a Linux server, the agents are always installed in subdirectories of /opt/novell/groupwise/agents.

bin directory

The bin directory holds GroupWise executable files.

gwpoa file

The gwpoa file is the Post Office Agent executable. You run this executable file to start the Post Office Agent. See “Starting the Linux Agents with a User Interface” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

gwmta file

The gwmta file is the Message Transfer Agent executable. You run this executable file to start the Message Transfer Agent. See “Starting the Linux Agents with a User Interface” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

gwha file

The gwha file is the GroupWise High Availability service executable. If the POA or the MTA goes down for any reason, the High Availability service automatically restarts it. See “Enabling the Groupwise High Availability Service for the Linux GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

*.xml files

The agent.xml files are specialized agent configuration files for use in the XIS environment.

strtupxx.poa file

The strtupxx.poa file is the boilerplate file from which a post office-specific post_office.poa file is created in the share directory. The xx in the startup filename represents a two-letter language code.
strtupxx.mta file

The **strtupxx.mta** file is the boilerplate file from which a domain-specific **domain.poa** file is created in the **share** directory. The **xx** in the startup filename represents a two-letter language code.

gwcsrngen file

The **gwcsrngen** file is the GroupWise Generate CSR utility. If you enable SSL for the agents, they need access to a server certificate and private key. You can use the GroupWise Generate CSR utility (GWCSRGEN) to generate a Certificate Signing Request (CSR) file and a Private Key file. For more information, see “Server Certificates and SSL Encryption” in “Security Administration” in the **GroupWise 8 Administration Guide**.

gwtmstmp file

The **gwtmstmp** file is the GroupWise Time Stamp utility. If you deselect Allow Purge of Items Not Backed Up in ConsoleOne, user databases (**userxxx.db**) must be time-stamped every time a backup is performed so that items can be purged only after being backed up. You can use the GroupWise Time Stamp (GWTMSTMP) utility to ensure that GroupWise user databases include the dates when they were last backed up, restored, and retained. For more information, see “GroupWise Time Stamp Utility” in “Databases” in the **GroupWise 8 Administration Guide**.

lib directory

The **lib** directory holds GroupWise library files.

*.fil files

These files contain all language-specific information for the POA and the MTA. The first five characters of the filename are the agent name. The last two characters **xx** are a language code.

*.so* files

These files are Linux library files that provide information to the GroupWise executables.

image directory

The **image** directory has subdirectories for agent icons for both color and monochrome displays.

share directory

The **share** directory holds agent startup files and files that are used by the agent consoles and Web consoles.

post_office.poa

The POA startup file contains startup switches for the POA. Switch settings placed in the POA startup file override comparable options set for the POA in ConsoleOne.

During installation, a customized version of the **strtupxx.poa** file, named **post_office.poa**, is created in the **share** directory. This customized version has the **--home** startup switch automatically set to the post office directory the POA will service. See “Using POA Startup Switches” in “Post Office Agent” in the **GroupWise 8 Administration Guide**.
**domain.mta**

The MTA startup file contains startup switches for the MTA. Switch settings placed in the MTA startup file override comparable options set for the MTA in ConsoleOne.

During installation, a customized version of the `startuxx.mta` file, named `domain.mta`, is created in the `share` directory. This customized version has the `--home` startup switch automatically set to the domain directory the MTA will service. See “Using MTA Startup Switches” in “Message Transfer Agent” in the *GroupWise 8 Administration Guide*.

**agtcon directory**

The `agtcon` directory holds subdirectories and files used by the agent consoles, such as help files. See “Using the POA Server Console” in “Post Office Agent” and “Using the MTA Server Console” in “Message Transfer Agent” in the *GroupWise 8 Administration Guide*.

**webcon directory**

The `webcon` directory holds subdirectories and files used by the agent Web consoles, such as help files. See “Using the POA Web Console” in “Post Office Agent” and “Using the MTA Web Console” in “Message Transfer Agent” in the *GroupWise 8 Administration Guide*.

**gwcsrsgen directory**

The `gwcsrsgen` directory holds subdirectories and files used by the GroupWise Generate CSR (GWCSRGEN) utility, such as help files. See “Generating a Certificate Signing Request” in “Security Administration” in the *GroupWise 8 Administration Guide*.

**/etc/init.d directory**

The `/etc/init.d` directory is the standard location for Linux startup scripts.

**grpwise file**

The `grpwise` script is created automatically during installation. You can use the script to start, restart, stop, and display status information about the POA and MTA. For more information about starting the agents, see “Installing and Starting the Linux GroupWise Agents” in “Installing a Basic GroupWise System” in the *GroupWise 8 Installation Guide*.

**rc3.d directory**

The `rc3.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 3 (multi-user; boots to a text mode login prompt without the X Window System). The symbolic link to the `grpwise` script is `Snngrpwise`. It is created if you choose during installation to have the agents start automatically when the server boots. See “Starting the Linux GroupWise Agents on System Startup” in “Installing GroupWise Agents” in the *GroupWise 8 Installation Guide*.

**rc5.d directory**

The `rc5.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 5 (multi-user; boots to the X Window System login dialog box). The symbolic link to the `grpwise` script is `Snngrpwise`. It is created if you choose during installation to have the agents start automatically when the server boots. See “Starting the Linux GroupWise Agents on System Startup” in “Installing GroupWise Agents” in the *GroupWise 8 Installation Guide*. 
**/etc/opt/novell/groupwise directory**

The /etc/opt directory is the standard location of application configuration files on Linux. Files that configure how the GroupWise agents interact with Linux are stored in the novell/groupwise subdirectory.

**gwha.conf file**

The gwha.conf file is the GroupWise High Availability service configuration file. It is created automatically during installation and provides the information necessary for the High Availability service to restart the GroupWise agents if they go down unexpectedly. See “Enabling the Groupwise High Availability Service for the Linux GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

**uid.conf file**

The uid.conf file configures the GroupWise agents to run as a non-root user. See “Running the Linux GroupWise Agents As a Non-root User” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

**/var/log/novell/groupwise directory**

The /var/log directory is the standard location for log files on Linux. All GroupWise agent log files are created in the novell/groupwise subdirectory.

**post_office.poa directory**

The post_office.poa directory is a post office-specific location for POA log files.

Within the post_office.poa directory, the POA creates log files (mmddpoa.nnn) to inform you of its processing and any problems it encounters. For more information about log files, see “Using POA Log Files” in “Post Office Agent” in the GroupWise 8 Administration Guide.

The first two digits of the filename represent the month, the next two digits represent the day of the month, and the next three characters indicate what program created the log. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518poa.002 is the second POA log file created on May 18.

**domain.mta directory**

The domain.mta directory is a domain-specific location for MTA log files.

Within the domain.mta directory, the MTA creates log files (mmddxxx.nnn) to inform you of its processing and any problems it encounters. For more information about log files, see “Using MTA Log Files” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

The first two digits of the filename represent the month; the next two digits represent the day of the month; the next three characters indicate what program created the log. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518mta.002 is the second MTA log file created on May 18.
8.1.3  Windows Installation Directory

When you first install GroupWise Administration, the GroupWise agents are initially installed in platform-specific subdirectories in the `agent` directory of the `software distribution directory`. However, the agents cannot be run from this initial location. They must be installed on the servers where they will run.

On a Windows server, the GroupWise agents can be installed in any directory you choose. The default is `c:\Program Files\Novell\GroupWise\Agents`. The agent icons are set up to include the full path to whatever directory you choose.

**gwenv1a.dll file**

The `gwenv1a.dll` file is the GroupWise Agent Engine, a program that is shared by both GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent started on a server automatically starts the GroupWise Agent Engine DLL.

**gwpoa.exe file**

The *gwpoa.exe* file is the Post Office Agent program. You run this executable file to start the Post Office Agent. See “Starting the Windows GroupWise Agents” in “Installing GroupWise Agents” in the *GroupWise 8 Installation Guide*.

**gwmta.exe file**

The *gwmta.exe* file is the Message Transfer Agent program. You run this executable file to start the Message Transfer Agent. See “Starting the Windows GroupWise Agents” in “Installing GroupWise Agents” in the *GroupWise 8 Installation Guide*.

**gwsnmp.dll file**

The *gwsnmp.dll* file provides interaction with the Windows SNMP Service, so that you can monitor the GroupWise agents using an SNMP monitoring program.

**gwwww1.dll file**

The *gwwww1.dll* file provides parsing of MIME messages received from the Internet.

**strtupxx.poa file post_office.poa file**

The POA startup file contains startup switches for the POA. Switch settings placed in the POA startup file override comparable options set for the POA in ConsoleOne. The *xx* in the startup filename represents a two-letter language code.

During installation, a customized version of the POA startup file, named *post_office.poa*, is created. This customized version has the *home* startup switch automatically set to the post office directory the POA will service. See “Using POA Startup Switches” in “Post Office Agent” in the *GroupWise 8 Administration Guide*.

**strtupxx.mta file domain.mta file**

The MTA startup file contains startup switches for the MTA. Switch settings placed in the MTA startup file override comparable options set for the MTA in ConsoleOne. The *xx* in the startup filename represents a two-letter language code.

During installation, a customized version of the MTA startup file, named *domain.MTA*, is created. This customized version has the *home* startup switch automatically set to the domain directory the MTA will service. See “Using MTA Startup Switches” in “Message Transfer Agent” in the *GroupWise 8 Administration Guide*. 
**agentnxx.chm files**

The .chm files contain the online documentation for the agents. Online Help is available by clicking Help in the agent consoles on the server where the agents are running. In addition, dialog boxes have a Help button for context-sensitive Help.

The first five characters of the filename are the agent name. The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

**agentnxx.dll files**

The agentnxx.dll files contain all language-specific information for the agents. The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

**x*10a.dll and gwxis10.dll files**

The x*10a.dll and gwxis10.dll programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

**agent.xml files**

The agent.xml files are specialized agent configuration files for use in the XIS environment.

**dbcopy.exe file**

The dbcopy.exe file is the GroupWise Database Copy utility, which copies files from a live GroupWise post office or domain to a static location for backup. During the copy process, DBCopy prevents the files from being modified, using the same locking mechanism used by other GroupWise programs that access databases. This ensures that the backed-up versions are consistent with the originals even when large databases take a substantial amount of time to copy. For more information, see “GroupWise Database Copy Utility” in “Databases” in the GroupWise 8 Administration Guide.

**help directory**

The help directory contains language-specific subdirectories for the help files available from the POA and MTA Web consoles. See “Using the POA Web Console” in “Post Office Agent” and “Using the MTA Web Console” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

### 8.2 Internet Agent Installation

- Section 8.2.1, “NetWare Installation Directory,” on page 110
- Section 8.2.2, “Linux Installation Directory,” on page 112
- Section 8.2.3, “Windows Installation Directory,” on page 116

#### 8.2.1 NetWare Installation Directory

![sys\system](106x102 to 119x113) NetWare Internet Agent installation directory
See also Section 7.5, “Internet Agent Queue Directory,” on page 83.

**NetWare Internet Agent installation directory**

On a NetWare server, the GroupWise Internet Agent is typically installed in the `sys:\system` directory. You can choose a different location during installation.

**gwenn5.nlm file**

The `gwenn5.nlm` file is the GroupWise 8 Agent Engine, a program that is shared by all GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent loaded on a server automatically loads the GroupWise Agent Engine.

**gwia.nlm file**

The `gwia.nlm` file is the Internet Agent program. You load this NLM program to start the Internet Agent. See “Starting the Internet Agent” in “Installing the GroupWise Internet Agent” in the GroupWise 8 Installation Guide.

**gwia.cfg file**

The Internet Agent configuration file contains startup switches for the Internet Agent. Switch settings placed in the Internet Agent startup file override comparable options set for the Internet Agent in ConsoleOne. The startup file is named the same as the Internet Agent object in ConsoleOne. The default is gwia.

During installation, a customized version of the Internet Agent startup file is created in `sys:\system`. This customized version has the `/home` startup switch automatically set to the domain directory where the Internet Agent’s queue directories are located. See “Using Internet Agent Startup Switches” in “Internet Agent” in the GroupWise 8 Administration Guide.
**gwianxx.fil files**

This file contains all language-specific information for the Internet Agent. The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

**gwia.ncf file**

The \texttt{gwia.ncf} file is the NetWare configuration file that automatically loads the Internet Agent whenever the server is restarted. A typical \texttt{gwia.ncf} file would look similar to the following:

\begin{verbatim}
load sys:\system\gwia @gwia.cfg
\end{verbatim}

**x*5.nlm and gwxis12.nlm files**

The \texttt{x*5.nlm} and \texttt{gwxis12.nlm} programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

**gwia.xml file**

The \texttt{gwia.xml} file is a specialized Internet Agent configuration file for use in the XIS environment.

### 8.2.2 Linux Installation Directory

- `/opt/novell/groupwise/agents`
  - Linux agent installation directory
    - bin
      - gwia
      - gwia.xml
      - gwha
    - lib
      - gwianxx.fil
      - libgwia.so
      - libgwia_ui.so
      - libgwha.so*
      - *.so
    - image
  - share
    - gwia.cfg
    - agtcon
      - help
    - webcon
      - help
agents directory

On a Linux server, the Internet Agent is always installed in subdirectories of /opt/novell/groupwise/agents.

bin directory

The bin directory holds GroupWise executable files.

gwia file

The gwia file is the Internet Agent executable. You run this executable file to start the Internet Agent. See “Starting the Internet Agent” in “Installing the GroupWise Internet Agent” in the GroupWise 8 Installation Guide.

gwia.xml file

The gwia.xml file is a specialized configuration file for use in the XIS environment.

gwha file

The gwha file is the GroupWise High Availability service executable. If the Internet Agent goes down for any reason, the High Availability service automatically restarts it. See “Enabling the Groupwise High Availability Service for the Linux GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

See also Section 7.5, “Internet Agent Queue Directory,” on page 83.
lib directory

The lib directory holds GroupWise shared library files.

gwiaxxx.fil files

This file contains all language-specific information for the Internet Agent. The last two characters xx are a language code.

*.so files

These files are Linux shared library files that provide information to the Internet Agent executable.

image directory

The image directory has subdirectories for agent icons for both color and monochrome displays.

share directory

The share directory holds agent startup files and files that are used by the agent consoles and Web consoles.

gwia.cfg

The Internet Agent configuration file contains startup switches for the Internet Agent. Switch settings placed in the Internet Agent configuration file override comparable configuration options set for the Internet Agent in ConsoleOne. The startup file is named the same as the Internet Agent object in ConsoleOne. The default is gwia.

During installation, the Internet Agent startup file is created in the share directory with the --home startup switch automatically set to the domain directory where the Internet Agent queue directory is located. See “Using Internet Agent Startup Switches” in “Internet Agent” in the GroupWise 8 Administration Guide.

agtcon directory

The agtcon directory holds subdirectories and files used by the agent consoles, such as help files.

webcon directory

The webcon directory holds subdirectories and files used by the agent Web consoles, such as help files.

/etc/init.d directory

The /etc/init.d directory is the standard location for Linux startup scripts.

grpwise file

The grpwise script is created automatically during installation. You can use the script to start, restart, stop, and display status information about the Internet Agent. For more information about starting the Internet Agent, see “Starting the Internet Agent” in “Installing the GroupWise Internet Agent” in the GroupWise 8 Installation Guide.
rc3.d directory

The `rc3.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 3 (multi-user; boots to a text mode login prompt without the X Window System). The symbolic link to the `grpwise` script is `Snngrpwise`. It is created if you choose during installation to have the Internet Agent start automatically when the server boots.

rc5.d directory

The `rc5.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 5 (multi-user; boots to the X Window System login dialog box). The symbolic link to the `grpwise` script is `Snngrpwise`. It is created if you choose during installation to have the Internet Agent start automatically when the server boots.

/etc/opt/novell/groupwise directory

The `/etc/opt` directory is the standard location of application configuration files on Linux. Files that configure how the GroupWise Internet Agent interacts with Linux are stored in the `novell/groupwise` subdirectory.

gwha.conf file

The `gwha.conf` file is the GroupWise High Availability service configuration file. It is created automatically during installation and provides the information necessary for the High Availability service to restart the Internet Agent if it goes down unexpectedly. See “Enabling the GroupWise High Availability Service for the Linux GroupWise Agents” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

uid.conf file

The `uid.conf` file configures the Internet Agent to run as a non-root user. See “Running the Linux GroupWise Agents As a Non-root User” in “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

/var/log/novell/groupwise directory

The `/var/log` directory is the standard location for log files on Linux. All GroupWise agent log files are created in the `novell/groupwise` subdirectory.

domain.gwia directory

The `domain.gwia` directory is a domain-specific location for Internet Agent log files.

Within the `domain.gwia` directory, the Internet Agent creates log files (`mmddgwia.nnn`) to inform you of its processing and any problems it encounters. For more information about log files, see “Using Internet Agent Log Files” in “Internet Agent” in the GroupWise 8 Administration Guide.

The first two digits of the filename represent the month; the next two digits represent the day of the month. The three-digit extension is a sequence number for multiple log files created on the same day. For example, `0518gwia.002` is the second Internet Agent log file created on May 18.
8.2.3 Windows Installation Directory

![c:\Program Files\Novell\GroupWise Server\GWIA](image)

Windows Internet Agent installation directory

- gwenv1a.dll: GroupWise Agent Engine
- gwia.exe: Internet Agent program
- gwia.cfg: Internet Agent configuration file
- gwianxx.chm: Internet Agent online help file
- gwianxx.dll: Internet Agent language information file
- gwww1.dll: Customized DLL program for MIME
- x*10a.dll: XIS DLL programs
- gwxis10.dll: GroupWise XIS DLL program
- gwia.xml: XIS agent configuration file

See also Section 7.5, “Internet Agent Queue Directory,” on page 83.

c:\Program Files\Novell\GroupWise Server\GWIA

On a Windows server, the Internet Agent can be installed in any directory you choose. The default location is c:\Program Files\Novell\GroupWise Server\GWIA. The Internet Agent icon is set up to include the full path to whatever directory you choose.

gwenv1a.dll file

The gwenv1a.dll file is the GroupWise Agent Engine, a program that is shared by both GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent started on a server automatically starts the GroupWise Agent Engine DLL.

gwia.exe file

The gwia.exe file is the Internet Agent program. You run this executable file to start the Internet Agent. See “Starting the Internet Agent” in “Installing the GroupWise Internet Agent” in the GroupWise 8 Installation Guide.

gwia.cfg file

On Windows, the gwia.cfg file in the installation directory is simply a pointer to the gwia.cfg file under the domain directory where the actual Internet Agent configuration file is located.
gwianxx.chm file

The .chm files contain the online documentation for the Internet Agent. Online help is available by clicking Help in the Internet Agent console on the server where the agent is running. In addition, dialog boxes have a Help button for context-sensitive Help.

The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

gwianxx.dll files

The gwianxx.dll files contain all language-specific information for the Internet Agent. The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

gwww1.dll file

The gwww1.dll file provides parsing of MIME messages received from the Internet.

\( x^{*}\)10a.dll and gwxis10.dll files

The \( x^{*}\)10a.dll and gwxis10.dll programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

gwia.xml file

The gwia.xml file is a specialized agent configuration file for use in the XIS environment.

8.3 WebAccess Agent Installation

- Section 8.3.1, “NetWare Installation Directory,” on page 117
- Section 8.3.2, “Linux Installation Directory,” on page 120
- Section 8.3.3, “Windows Installation Directory,” on page 123
- Section 8.3.4, “Document Viewer Agent Working Directory,” on page 126

8.3.1 NetWare Installation Directory

- \( \text{sys:\system} \) NetWare WebAccess Agent installation directory
- gwenn5.nlm GroupWise 8 Agent Engine
- gwwinter.nlm WebAccess Agent program
- gwdva.nlm Document Viewer Agent program
- strtweb.ncf WebAccess Agent load file
- stopweb.ncf WebAccess Agent unload file
- webac80a.waa WebAccess Agent startup file
- gwdva.dva Document Viewer Agent startup file
- \( x^{*}\)5.nlm XIS NLM programs
- gwxisl2.nlm GroupWise XIS NLM program
- gwwinter.xml WebAccess Agent XIS configuration file

**NetWare WebAccess Agent installation directory**

On a NetWare server, the GroupWise WebAccess Agent is typically installed in the `sys:\system` directory. You can choose a different location during installation.

**gwen5.nlm file**

The `gwen5.nlm` file is the GroupWise 8 Agent Engine, a program that is shared by all GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent loaded on a server automatically loads the GroupWise Agent Engine.

**gwinter.nlm file**

The `gwinter.nlm` file is the WebAccess Agent program.

**gwdva.nlm file**

The `gwdva.nlm` file is the Document Viewer Agent program.

**strtweb.ncf file**

The `strtweb.ncf` file is the NetWare configuration file that automatically loads the WebAccess Agent whenever the server is restarted. A typical `strtweb.ncf` file would look similar to the following:

```plaintext
load sys:\system\gwinter @webac80a.waa
```

It includes the WebAccess Agent startup file in the load command. For more information, see “Starting GroupWise WebAccess” in “Installing GroupWise WebAccess” in the *GroupWise 8 Installation Guide*. 
**stopweb.ncf**

The *stopweb.ncf* file is the NetWare configuration file that unloads the WebAccess Agent. A typical *stopweb.ncf* file would look similar to the following:

```
unload gwinter
```

**webac80a.waa file**

The WebAccess Agent startup file contains startup switches for the WebAccess Agent. Switch settings placed in the WebAccess Agent startup file override comparable options set for the WebAccess Agent in ConsoleOne. The startup file is named the same as the WebAccess Agent object in ConsoleOne. The default is *webac80a*.

During installation, a customized version of the WebAccess Agent startup file is created. This customized version has the `//home` startup switch automatically set to the domain directory where the WebAccess Agent’s queue directories are located. See “Using WebAccess Startup Switches” in “WebAccess” in the *GroupWise 8 Administration Guide*.

**gwdva.dva file**

The *gwdva.dva* file is the Document Viewer Agent startup file. The Viewer Agent is currently configured completely by startup switches. For more information, see “Document Viewer Agent Startup Switches”.

**x*5.nlm and gwxis12.nlm files**

The *x*5.nlm and *gwxis12.nlm* programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

**gwinter.xml file**

The *gwinter.xml* file is a specialized WebAccess Agent configuration file for use in the XIS environment.

**cache\template\xx directory**

The cache\template\xx directory holds language-specific HTML template files that the WebAccess Agent passes to the Document Viewer Agent for viewing documents in WebAccess and WebPublisher. The xx is a two-letter language code.

**gwdva.dir directory**


**help directory**

### 8.3.2 Linux Installation Directory

- `/opt/novell/groupwise` Novell GroupWise installation directory
- `agents` Linux agent installation directory
- `bin` Subdirectory for GroupWise agent executables
  - `gwinter` WebAccess Agent executable
  - `gwinter.xml` WebAccess Agent XIS configuration file
  - `webac80axx.waa` Boilerplate WebAccess startup file
- `template` Subdirectory for HTML template files
  - `gwdva` Document Viewer Agent executable
  - `gwdva.dir` Document Viewer Agent working directory
- `lib` Subdirectory for GroupWise agent library files
  - `*.so` Supporting shared library files
- `image` Subdirectory for icon images
- `share` Subdirectory for agent shared files
  - `webac80a.waa` WebAccess Agent startup file
  - `gwdva.dva` Document Viewer Agent startup file
- `webcon` Subdirectory for agent Web console files
- `help` Subdirectory for agent Web console help files

- `/etc/init.d` Standard Linux location for application startup scripts
- `grpwise` Startup script for the WebAccess Agent
- `rc3.d` Standard Linux location for run-level-3 symbolic links
  - `Snngrpwise` Symbolic link to the startup script for the WebAccess Agent
- `rc5.d` Standard Linux location for run-level-5 symbolic links
  - `Snngrpwise` Symbolic link to the startup script for the WebAccess Agent

- `/var/log/` Standard Linux location for application log files
- `novell/groupwise` Subdirectory for GroupWise agent log files
  - `domain.webac80a` Domain-specific subdirectory for WebAccess Agent log files
    - `000.prc` Processing directory for log files
    - `mmddgwia.nnn` WebAccess Agent log files
- `gwdva` Subdirectory for Viewer Agent log files
  - `mmddgvdv.nnn` Viewer Agent log files

agents directory

On a Linux server, the WebAccess Agent is always installed in subdirectories of /opt/novell/groupwise/agents.

bin directory

The bin directory holds GroupWise executable files.

gwinter file


gwinter.xml file

The gwinter.xml file is a specialized configuration file for use in the XIS environment.

webac80axx.waa file

The webac80axx.waa file is the boilerplate file from which a domain-specific webac80a.waa file is created in the share directory. The webac80a represents the name of the WebAccess Agent object in eDirectory. The xx represents a two-letter language code.

template\xx directory

The template\xx directory holds language-specific HTML template files that the WebAccess Agent passes to the Document Viewer Agent for viewing documents in WebAccess and WebPublisher. The xx is a two-letter language code.

gwdva file

The gwdva file is the Document Viewer Agent executable. The WebAccess Agent starts and stops the Viewer Agent automatically whenever it starts and stops.

gwdva.dir directory


lib directory

The lib directory holds GroupWise shared library files.

*.so files

The *.so files are Linux shared library files that provide information to the WebAccess Agent executable.

image directory

The image directory has subdirectories for agent icons for both color and monochrome displays.
share directory

The share directory holds agent startup files and files that are used by the agent consoles and Web consoles.

webac80a.waa file

The WebAccess Agent startup file contains startup switches for the WebAccess Agent. Switch settings placed in the WebAccess Agent startup file override comparable options set for the WebAccess Agent in ConsoleOne. The startup file is named the same as the WebAccess Agent object in ConsoleOne. The default is webac80a.

During installation, a customized version of the WebAccess Agent startup file is created. This customized version has the /home startup switch automatically set to the domain directory where the WebAccess Agent’s queue directories are located. See “Using WebAccess Startup Switches” in “WebAccess” in the GroupWise 8 Administration Guide.

gwdva.dva file

The gwdva.dva file is the Document Viewer Agent startup file. The Viewer Agent is currently configured completely by startup switches. For more information, see “Document Viewer Agent Startup Switches”.

webcon directory

The webcon directory holds subdirectories and files used by the agent Web consoles, such as help files.

/etc/init.d directory

The /etc/init.d directory is the standard location for Linux startup scripts.

grpwise file

The grpwise script is created automatically during installation. You can use the script to start, restart, stop, and display status information about the WebAccess Agent. For more information about starting the WebAccess Agent, see “Linux: Setting Up GroupWise WebAccess” in “Installing GroupWise WebAccess” in the GroupWise 8 Installation Guide.

rc3.d directory

The rc3.d directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 3 (multi-user; boots to a text mode login prompt without the X Window System). The symbolic link to the grpwise script is Snngrpwise. It is created if you choose during installation to have the WebAccess Agent start automatically when the server boots.

rc5.d directory

The rc5.d directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 5 (multi-user; boots to the X Window System login dialog box). The symbolic link to the grpwise script is Snngrpwise. It is created if you choose during installation to have the WebAccess Agent start automatically when the server boots.
/var/log/novell/groupwise directory

The /var/log directory is the standard location for log files on Linux. All GroupWise agent log files are created in the novell/groupwise subdirectory.

domain.webac80a directory

The domain.webac80a directory is a domain-specific location for WebAccess Agent log files.

000.prc directory  Within the 000.prc directory, the WebAccess Agent creates log files (mmddweb.nnn) to inform you of its processing and any problems it encounters. For more information about log files, see “Controlling WebAccess Agent Logging” in “WebAccess” in the GroupWise 8 Administration Guide.

The first two digits of the filename represent the month; the next two digits represent the day of the month. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518web.002 is the second WebAccess Agent log file created on May 18.

gwdva directory

The gwdva directory stores Viewer Agent log files. The first two digits of the filename represent the month; the next two digits represent the day of the month. The three-digit extension is a sequence number for multiple log files created on the same day. For example, 0518web.002 is the second Viewer Agent log file created on May 18.

8.3.3 Windows Installation Directory

\c:\Program Files\Novell\GroupWise Server\WebAccess

\gwenv1a.dll  GroupWise Agent Engine
\gwinter.exe  WebAccess Agent program
\strtweb.bat  WebAccess Agent batch file
\webac80a.waa  WebAccess Agent startup file
\gwdva.exe  Document Viewer Agent program
\gwdva.dva  Document Viewer Agent startup file
\gwdva.dir  Document Viewer Agent working directory
\gwanxx.dll  WebAccess Agent language information file
\gwasnmp.dll  Customized DLL program for SNMP
\gwwww1.dll  Customized DLL program for MIME
\x*10a.dll  XIS DLL programs
\gxxis10.dll  GroupWise XIS DLL program
\gwinter.xml  WebAccess Agent XIS configuration file
\cache\template\xx  Subdirectory for HTML template files
\webacc.tpt  WebAccess template files
\publish.tpt  WebPublisher template files
\help  Subdirectory for GroupWise agent console help files

c:\Program Files\Novell\GroupWise Server\WebAccess

On a Windows server, the WebAccess Agent can be installed in any directory you choose. The default location is c:\Program Files\Novell\GroupWise Server\WebAccess. The WebAccess Agent desktop icon is set up to include the full path to whatever directory you choose.

gwenv1a.dll file

The gwenv1a.dll file is the GroupWise Agent Engine, a program that is shared by all GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent started on a server automatically starts the GroupWise Agent Engine DLL.

gwinter.exe file

The gwinter.exe file is the WebAccess Agent program.

strtweb.bat file

The strtweb.bat file is used to start the WebAccess Agent. The batch file specifies the WebAccess startup file. A typical strtweb.bat file includes the following:

title Novell GroupWise WebAccess @echo off cls gwinter.exe @webac80a.waa


webac80a.waa file

The WebAccess Agent startup file contains startup switches for the WebAccess Agent. Switch settings placed in the WebAccess Agent startup file override comparable configuration options set for the WebAccess Agent in ConsoleOne. The startup file is named the same as the WebAccess Agent object in eDirectory. The default is webac80a.

During installation, the WebAccess Agent startup file is created with the /home startup switch automatically set to the domain directory where the WebAccess Agent queue directory (domain\wpgate\webac80a) is located. See “Using WebAccess Startup Switches” in “WebAccess” in the GroupWise 8 Administration Guide.
**gwdva.exe file**

The `gwdva.exe` file is the Document Viewer Agent program. The WebAccess Agent automatically starts and stops the Viewer Agent whenever the WebAccess Agent starts and stops.

**gwdva.dva file**

The `gwdva.dva` file is the Document Viewer Agent startup file. The Viewer Agent is currently configured completely by startup switches. See “Document Viewer Agent Startup Switches”.

**gwdva.dir directory**


**gwwanxx.dll files**

The `gwwanxx.dll` files contain all language-specific information for the WebAccess Agent. The digit \( n \) is a version number. The last two characters \( xx \) are a language code.

**gwwasnmp.dll file**

The `gwwasnmp.dll` file provides interaction with the Windows SNMP Service, so that you can monitor the WebAccess Agent using an SNMP monitoring program. This file is not installed unless you enable SNMP during installation. It cannot be installed if the SNMP Service is not installed on the Windows server.

**gwwww1.dll file**

The `gwwww1.dll` file provides parsing of MIME messages received from the Internet.

**x*10a.dll and gwxis10.dll files**

The `x*10a.dll` and `gwxis10.dll` programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

**gwinter.xml file**

The `gwia.xml` file is a specialized agent configuration file for use in the XIS environment.

**cache\template\xx directory**

The `cache\template\xx` directory holds language-specific HTML template files that the WebAccess Agent passes to the Document Viewer Agent for viewing documents in WebAccess and WebPublisher. The \( xx \) is a two-letter language code.

**help directory**

8.3.4 Document Viewer Agent Working Directory

The Document Viewer Agent creates its working directory as a subdirectory of its installation directory. The default location varies by platform:

NetWare:  `sys\system\gwdva.dir`
Linux:  `/opt/novell/groupwise/agents/bin/gwdva.dir`
Windows:  `c:\Program Files\Novell\GroupWise Server\WebAccess\gwdva.dir`

- **gwdva.dir** directory: Document Viewer Agent working directory
- **gwdavnnn.ste** files: State files for Document Viewer Agent worker threads
- **cache** directory: Subdirectory for caching converted documents for repeated display
- **000** directory: Subdirectory for converted GroupWise library documents
- **tran** directory: Subdirectory for converted attachment documents
- **problem** directory: Subdirectory for information about documents that failed conversion
- **hold** directory: Subdirectory for quarantined documents that failed HTML conversion
- **log** directory: Subdirectory for Document Viewer Agent log files
- **temp** directory: Subdirectory for the temporary files using during HTML conversion (not currently used)
- **template** directory: Subdirectory for information about documents that failed conversion

**gwdva.dir directory**

The `gwdva.dir` directory is the working directory for the Document Viewer Agent.

**gwdavnnn.ste files**

The `gwdavnnn.ste` files hold state information about each Document Viewer Agent worker thread. To control the number of worker threads, see “Agent Performance” in “Configuring the Document Viewer Agent” in the GroupWise 8 Administration Guide.

**cache directory**

The `cache` directory contains subdirectories for managing the documents that the Viewer Agent has already converted. See “Document Cache” in “WebAccess” in the GroupWise 8 Administration Guide.

**000 directory**

The `000` directory holds GroupWise library documents that have been converted to HTML. Because these documents belong to a GroupWise library, they are retained for a longer period of time. If the documents in the `000` directory exceed the established maximum cache size, a new directory, `001`, is created. Additional library cache directories are created as needed.

**tran directory**

The `tran` directory holds attachment documents that have been converted to HTML. Attached documents are more transitory than GroupWise library documents and are retained for a shorter period of time.
problem directory
The problem directory stores information about documents that have failed conversion. This prevents the Viewer Agent from needlessly attempting to convert the same failed documents.

hold directory
The hold directory is the document quarantine directory. Here the Viewer Agent places documents that have failed HTML conversion. You can configure the Viewer Agent to notify an administrator when a document fails conversion. See “Document Quarantine” in “WebAccess” in the GroupWise 8 Administration Guide.

log directory
The log directory stores log files produced by the Viewer Agent. See “Agent Log Files” in “WebAccess” in the GroupWise 8 Administration Guide.

NOTE: On Linux, Viewer Agent log files are stored in the typical location for log files on Linux (/var/log/novell/groupwise/gwdva), rather than under the gwdva.dir directory.

temp directory
The temp directory is used for the temporary files created during HTML conversion. See “Document Conversion” in “WebAccess” in the GroupWise 8 Administration Guide.

8.4 Monitor Agent Installation

- Section 8.4.1, “Linux Installation Directory,” on page 127
- Section 8.4.2, “Windows Installation Directory,” on page 129

8.4.1 Linux Installation Directory

```
/gopt/novell/groupwise
agents
/bin
  gwmon
/lib
  *.so
/share
  monitor.xml
```
GroupWise installation directory
Linux agent installation directory
Subdirectory for GroupWise agent executables
Monitor Agent executable
Subdirectory for GroupWise agent library files
Supporting shared library files
Subdirectory for agent shared files
Monitor Agent configuration file

```
/etc/init.d
  grpwise-ma
```
Standard Linux location for application startup scripts
Startup script for the Monitor Agent
agents directory

On a Linux server, the Monitor Agent is always installed in subdirectories of /opt/novell/groupwise/agents.

bin directory

The bin directory holds GroupWise executable files.

gwmon file

The gwmon file is the Monitor Agent executable. You run this executable file to start the Monitor Agent. See “Starting the Linux Monitor Agent as a Daemon” in “Installing GroupWise Monitor” in the GroupWise 8 Installation Guide.

lib directory

The lib directory holds GroupWise shared library files.

*.so files

These files are Linux shared library files that provide information to the Monitor Agent executable.

share directory

The share directory holds agent startup files and files that are used by the agent consoles and Web consoles.

monitor.xml file

The monitor.xml file is a specialized configuration file for use in the XIS environment.

/etc/init.d directory

The /etc/init.d directory is the standard location for Linux startup scripts.
**grpwise-ma file**

The `grpwise-ma` script is created automatically during installation. You can use the script to start, restart, stop, and display status information about the Monitor Agent. For more information about starting the Monitor Agent, see “Starting the Linux Monitor Agent as a Daemon” in “Installing GroupWise Monitor” in the *GroupWise 8 Installation Guide*.

**rc3.d directory**

The `rc3.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 3 (multi-user; boots to a text mode login prompt without the X Window System). The symbolic link to the `grpwise-ma` script is `Snngrpwise-ma`. It is created if you choose during installation to have the Monitor Agent start automatically when the server boots.

**rc5.d directory**

The `rc5.d` directory holds symbolic links to scripts that you want your Linux server to run when it is booted to runlevel 5 (multi-user; boots to the X Window System login dialog box). The symbolic link to the `grpwise-ma` script is `Snngrpwise-ma`. It is created if you choose during installation to have the Monitor Agent start automatically when the server boots.

**/var/log/novell/groupwise directory**

The `/var/log` directory is the standard location for log files on Linux. All GroupWise agent log files are created in the `novell/groupwise` subdirectory.

**gwmon directory**

Within the `gwmon` directory, the Monitor Agent creates two different types of log files. The `mmddmon.nnn` log files inform you of its processing and any problems it encounters. The `mmddhist.nnn` log files record dumps of all MIB values gathered during each poll cycle. For more information about log files, see “Configuring Monitor Agent Log Settings” in “Monitor” in the *GroupWise 8 Administration Guide*.

The first two digits of the filename represent the month; the next two digits represent the day of the month. The three-digit extension is a sequence number for multiple log files created on the same day. For example, `0518mon.002` is the second Monitor Agent log file created on May 18.

**gwmon/acct directory**

Within the `gwmon` directory, the Monitor Agent creates an `acct` subdirectory for storing accounting files received from the Internet Agent and GroupWise gateways. For more information, see “Receiving the Accounting Files” in “Monitor” in the *GroupWise 8 Administration Guide*.

**8.4.2 Windows Installation Directory**

```
\c:\Program Files\Novell\GroupWise Server\Monitor
\gwenv1a.dll
\gwmon.exe
\monitor.xml
```

<table>
<thead>
<tr>
<th>Windows Monitor Agent installation directory</th>
<th>GroupWise Agent Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Monitor Agent program</td>
<td>Monitor Agent configuration file</td>
</tr>
</tbody>
</table>
Additional Monitor files are integrated into your Web server to support the Monitor Web console. For an example, see Section 9, “Web Application Installation Directories on Your Web Server,” on page 133.

c:\Program Files\Novell\GroupWise Server\Monitor directory

On a Windows server, the Monitor Agent can be installed in any directory you choose. The default location is c:\Program Files\Novell\GroupWise Server\Monitor. The Monitor Agent desktop icon is set up to include the full path to whatever directory you choose.

gwenv1a.dll file

The gwenv1a.dll file is the GroupWise Agent Engine, a program that is shared by all GroupWise agents. It provides the following services to the agents:

- Database management
- File operations
- Message handling
- Thread management
- Semaphores (file/record locking)
- Date/time services

The first agent started on a server automatically starts the GroupWise Agent Engine DLL.

gwmon.exe file


monitor.xml

The monitor.xml file stores the Monitor Agent configuration information that you establish in the Monitor Agent console, as described in “Configuring the Monitor Agent” in “Monitor” in the GroupWise 8 Administration Guide.

gwmonxx.dll files

The gwmonxx.dll files contain all language-specific information for the WebAccess Agent. The last two characters xx are a language code.
**gwsnmp.dll file**

The `gwsnmp.dll` file provides interaction with the Windows SNMP Service, so that the Monitor Agent can throw SNMP traps. See “Configuring SNMP Trap Notification for Agent Problems” in “Monitor” in the *GroupWise 8 Administration Guide*.  

**x*10a.dll and gwxis10.dll files**

The `x*10a.dll` and `gwxis10.dll` programs provide XIS capability for the GroupWise agents, so that you can create XML documents to monitor and change the agents as needed.

**gwmon.xml file**

The `gwmon.xml` file is a specialized agent configuration file for use in the XIS environment.

**monwork directory**

The `monwork` directory is used for temporary files used in calculating system performance, as described in “Measuring Agent Performance” in “Monitor” in the *GroupWise 8 Administration Guide*.  

**acct directory**

The `acct` directory is used for storing accounting files received from the Internet Agent and GroupWise gateways, as described in “Receiving the Accounting Files” in “Monitor” in the *GroupWise 8 Administration Guide*.  

Web Application Installation Directories on Your Web Server

WebAccess, WebPublisher, and Monitor rely on the presence of a Web server in order to fulfill their functions. A number of Web servers are supported. See “GroupWise System Requirements” in “Installing a Basic GroupWise System” in the GroupWise 8 Installation Guide.

On Linux, the GroupWise Web applications are installed into the Apache Web server and the Tomcat Java Servlet Container. On Windows, the GroupWise Web applications are installed into the Internet Information Server (IIS) and the Tomcat Java Servlet Container. On both platforms, configuration files, log files, and working files, are stored in a separate directory outside of your Web server and Tomcat installations.

- Section 9.1, “NetWare Apache/Tomcat Installation Directories,” on page 133
- Section 9.2, “OES 11 Apache/Tomcat Installation Directories,” on page 139
- Section 9.3, “OES 2 Linux Apache/Tomcat Installation Directories,” on page 141
- Section 9.4, “SLES 11 Apache/Tomcat Installation Directories,” on page 143
- Section 9.5, “SLES 10 Apache/Tomcat Installation Directories,” on page 144
- Section 9.6, “Windows IIS/Tomcat Installation Directories,” on page 148

9.1 NetWare Apache/Tomcat Installation Directories

- **sys:\apache2**
  - **conf**
    - **httpd.conf**
    - **GWApache2.conf**
    - **gwmon.conf**
    - **gwcal.conf**
  - **htdocs**
    - **index.html**
  - Apache installation directory
  - Standard Apache directory
  - Main Apache configuration file
  - Apache configuration file for GroupWise WebAccess
  - Apache configuration file for GroupWise Monitor
  - Apache configuration file for the GroupWise Calendar Publishing Host
  - Apache document root directory
  - Web server default Web page

- **sys:\tomcat\4**
  - **webapps/gw**
    - **index.html**
  - Tomcat installation directory
  - GroupWise-specific document root directory
  - GroupWise-specific Web services page
### Directory Structure

#### com/novell/webaccess
- Directory for WebAccess help files

#### com/novell/webpublisher
- Directory for WebPublisher help files

#### webaccess
- Directory for GroupWise WebAccess Application files

#### webpublisher
- Directory for GroupWise WebPublisher Application files

#### WEB-INF
- GroupWise Web service information directory
- GroupWise Web service configuration file

#### classes/com/novell
- Directory for Novell product files

#### classes/com/novell/webaccess
- Directory for GroupWise WebAccess files
- Subdirectory for service provider files

#### classes/com/novell/webpublisher
- Directory for GroupWise WebPublisher files
- Subdirectory for service provider files

#### classes/templates
- GroupWise Web service template files

#### webapps/gwcal
- Calendar Publishing Host document root directory
- Calendar Publishing Host Web services page

#### WEB-INF
- Calendar Publishing Host Web service information directory
- Calendar Publishing Host Web service configuration file

#### webapps/gwmong
- GroupWise Monitor document root directory
- GroupWise Monitor Web services page

#### WEB-INF
- GroupWise Monitor Web service information directory
- GroupWise Monitor Web service configuration file

#### classes/templates
- GroupWise Monitor Web service template files

#### sys:
- GroupWise
- Directory for GroupWise Web services files

#### calhost
- Subdirectory for the Calendar Publishing Host
- Calendar Publishing Host configuration file
- Directory for Calendar Publishing Host log files

#### gwmonitor
- Subdirectory for GroupWise Monitor
- Monitor Application configuration file
- Directory for Monitor Application log files

#### webaccess
- Subdirectory for WebAccess
- WebAccess Application configuration file
- Communications Manager configuration file
- LDAP service provider configuration file
- Directory for WebAccess Application log files
- Directory for WebAccess users' session files

#### webpublisher
- Subdirectory for WebPublisher Application files
- WebPublisher Application configuration file
- Communications Manager configuration file
- Subdirectory for WebPublisher Application log files
### 9.1.1 sys:/apache2/conf directory

The /apache2/conf directory is the standard Apache Web server configuration directory.

**httpd.conf file**

The httpd.conf file is the main Apache configuration file. On NetWare, the GroupWise Installation program modifies it to include a reference to the GWApache2.conf file.

**GWApache2.conf file**

The GWApache2.conf file includes the JkMount command that enables Apache to access the GroupWise WebAccess and WebPublisher application files that have been installed into Tomcat.

**gwmon.conf file**

The gwmon.conf file includes the JkMount command that enables Apache to access the GroupWise Monitor application files that have been installed into Tomcat.

**gwcal.conf file**

The gwcal.conf file includes the JkMount command that enables Apache to access the GroupWise Calendar Publishing Host application files that have been installed into Tomcat.

**htdocs/index.html file**

The index.html file in the htdocs directory is the default HTML file that displays in your Web browser when you go to the IP address or hostname of the server.

### 9.1.2 sys:/tomcat/4/webapps

The /tomcat/4/webapps directory is where applications are installed into the Web server.

**gw/index.html file**

The index.html file in the gw directory is the default HTML file for the GroupWise client Web services (WebAccess and WebPublisher) and displays when you go to the following URL:

http://web_server_address/gw

From this default page, WebAccess and WebPublisher URLs can be easily accessed:

http://web_server_address/gw/webacc
http://web_server_address/gw/webpub

**gw/WEB-INF/web.xml file**

The web.xml file tells the Web server where the various GroupWise service providers and their configuration files are located. By default, they are located in subdirectories under sys:\Novell\GroupWise.
gw/WEB-INF/classes/com/novell/webaccess/providers directory

The providers directory holds the Java class and properties files for the WebAccess providers. For more information, see “Adding or Removing Service Providers” in “WebAccess” in the GroupWise 8 Administration Guide.

gw/WEB-INF/classes/com/novell/webpublisher/providers directory

The providers directory holds the Java class and properties files for the WebPublisher providers. For more information, see “Adding or Removing Service Providers” in “WebAccess” in the GroupWise 8 Administration Guide.

gw/WEB-INF/classes/templates directory

The templates directory holds subdirectories for the various file formats used in various browser environments. For more information, see “Modifying WebAccess Application Template Settings” in “WebAccess” in the GroupWise 8 Administration Guide.

gwcal/index.html file

The index.html file in the gwcal directory is the default HTML file for the GroupWise Calendar Publishing Host Web service and displays when you go to the following URL:

http://web_server_address/gwcal

gwcal/WEB-INF/web.xml file

The web.xml file tells the Web server where the Calendar Publishing Host service provider and its configuration file are located.

gwmon/index.html file

The index.html file in the gwmon directory is the default HTML file for the GroupWise Monitor Web service and displays when you go to the following URL:

http://web_server_address/gwmon

gwmon/WEB-INF/web.xml file

The web.xml file tells the Web server where the GroupWise Monitor service provider and its configuration file are located.

gwmon/WEB-INF/classes/templates directory

The templates directory holds subdirectories for the various file formats used in various browser environments. For more information, see “Modifying Monitor Application Template Settings” in “Monitor” in the GroupWise 8 Administration Guide.

9.1.3 sys:\Novell\GroupWise directory

The sys:\Novell\GroupWise directory holds subdirectories for each GroupWise application.
9.1.4 calhost directory

The calhost directory is created when you install the Calendar Publishing Host.

**calhost.cfg file**

The calhost.cfg file holds Calendar Publishing Host configuration information. For more information, see “Configuring the Calendar Publishing Host” in “Calendar Publishing Host” in the *GroupWise 8 Administration Guide*.

**logs directory**

The logs subdirectory holds Calendar Publishing Host Application log files. For more information, see “Using Calendar Publishing Host Log Files” in “Calendar Publishing Host” in the *GroupWise 8 Administration Guide*.

9.1.5 gwmonitor directory

The gwmonitor directory is created when you install GroupWise Monitor.

**gwmonitor.cfg file**

The gwmonitor.cfg file holds the same configuration information that is stored on the Monitor Application object (named GroupWiseMonitor) in eDirectory. For more information, see “Configuring the Monitor Application” in “Monitor” in the *GroupWise 8 Administration Guide*.

**logs directory**

The logs subdirectory holds Monitor Application log files. For more information, see “Modifying Monitor Application Log Settings” in “Monitor” in the *GroupWise 8 Administration Guide*.

9.1.6 webaccess directory

The webaccess directory holds files used by the WebAccess Application.

**webacc.cfg file**

The webacc.cfg file holds the same configuration information that is stored on the WebAccess Application object (named GroupWiseWebAccess) in eDirectory. For more information, see “Configuring the WebAccess Application” in “WebAccess” in the *GroupWise 8 Administration Guide*.

**commgr.cfg file**

The commgr.cfg file holds the same configuration information that is stored on the GroupWise Provider object (named GroupWiseProvider) in eDirectory, including the IP address, port number, number of threads, and encryption key for the WebAccess Agent. This information enables the
WebAccess Application to communicate with the WebAccess Agent. For more information, see “Configuring the GroupWise Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

A copy of the commgr.cfg file is automatically maintained in the WebAccess Agent queue directory (domain\wpgate\webac80a).

**ldap.cfg file**

The ldap.cfg file holds the same configuration information that is stored on the LDAP Provider object (named LDAPProvider) in eDirectory. For more information, see “Configuring the LDAP Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

**logs directory**

The logs subdirectory holds WebAccess Application log files. For more information, see “Controlling WebAccess Application Logging” in “WebAccess” in the GroupWise 8 Administration Guide.

**users directory**

The users subdirectory holds session files for WebAccess users. If WebAccess times out after a period of user inactivity, the user’s session information is saved. When the user logs back in, the session information is retrieved so that the user can continue working without loss of data. Also, users’ message text is saved during each session, so that if the WebAccess Application is restarted or goes down, users do not lose the message text they were composing at the time.

**9.1.7 webpublisher directory**

The webpublisher directory holds files used by the WebPublisher Application.

**webpub.cfg**

The webpub.cfg file holds the same configuration information that is stored on the WebPublisher Application object (named GroupWiseWebPublisher) in eDirectory. For more information, see “Configuring the WebPublisher Application” in “WebAccess” in the GroupWise 8 Administration Guide.

**commgr.cfg file**

The commgr.cfg file holds the same configuration information that is stored on the GroupWise Provider object (named GroupWiseProvider) in eDirectory, including the IP address, port number, number of threads, and encryption key for the WebAccess Agent. This information enables the WebAccess Application to communicate with the WebAccess Agent. For more information, see “Configuring the GroupWise Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

A copy of the commgr.cfg file is automatically maintained in the WebAccess Agent queue directory (domain\wpgate\webac80a).
9.2 OES 11 Apache/Tomcat Installation Directories

In addition to the files installed into the Apache and Tomcat installation directories, GroupWise Web application files are also installed into the GroupWise Web Application Working Directory.

<table>
<thead>
<tr>
<th>Directory Path</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/etc/opt/novell/httpd</td>
<td>Novell Apache installation directory</td>
</tr>
<tr>
<td>conf.d</td>
<td>Apache application configuration directory</td>
</tr>
<tr>
<td>gw.conf</td>
<td>WebAccess Application configuration file</td>
</tr>
<tr>
<td>gwcal.conf</td>
<td>Calendar Publishing Host Application configuration file</td>
</tr>
<tr>
<td>gwmon.conf</td>
<td>Monitor Application configuration file</td>
</tr>
<tr>
<td>/var/opt/novell/tomcat6/webapps</td>
<td>Novell Tomcat installation directory</td>
</tr>
<tr>
<td>gw</td>
<td>Web applications directory</td>
</tr>
<tr>
<td>index.html</td>
<td>WebAccess document root directory</td>
</tr>
<tr>
<td>webaccess</td>
<td>WebAccess Login page</td>
</tr>
<tr>
<td>yyyyymmddhhm</td>
<td>Directory for WebAccess and Web console help files</td>
</tr>
<tr>
<td>help</td>
<td></td>
</tr>
<tr>
<td>gwcal</td>
<td>Calendar Publishing Host document root directory</td>
</tr>
<tr>
<td>index.html</td>
<td>Calendar Publishing Host Web page</td>
</tr>
<tr>
<td>gwmon</td>
<td>GroupWise Monitor document root directory</td>
</tr>
<tr>
<td>index.html</td>
<td>GroupWise Monitor Web console page</td>
</tr>
<tr>
<td>com/novell</td>
<td></td>
</tr>
<tr>
<td>gwmonitor</td>
<td>Directory for Monitor Web console help files</td>
</tr>
<tr>
<td>help</td>
<td></td>
</tr>
<tr>
<td>gw.war</td>
<td>Web application archive file for WebAccess</td>
</tr>
<tr>
<td>gwcal.war</td>
<td>Web application archive file for the Calendar Publishing Host</td>
</tr>
<tr>
<td>gwmon.war</td>
<td>Web application archive file for Monitor</td>
</tr>
<tr>
<td>/usr/sbin</td>
<td>Standard directory for application scripts</td>
</tr>
<tr>
<td>rcapache2</td>
<td>Script to start and stop the Apache Web server</td>
</tr>
<tr>
<td>rcnovell-tomcat6</td>
<td>Script to start and stop the Novell version of Tomcat</td>
</tr>
</tbody>
</table>

9.2.1 /etc/opt/novell/httpd directory

The /etc/opt/novell/httpd directory is the standard Apache Web server installation directory on OES 11.
conf.d directory

The conf.d directory holds configuration information for each Web application that has been installed for use with Apache.

gw.conf file

The gw.conf file includes the information that enables Apache to access the WebAccess Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/webaccess/gw.conf.

gwcal.conf file

The gwcal.conf file includes the information that enables Apache to access the Calendar Publishing Host Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/calhost/gwcal.conf.

gwmon.conf file

The gwmon.conf file includes the information that enables Apache to access the Monitor Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/monitor/gwmon.conf.

9.2.2 /var/opt/novell/tomcat6 directory

The /var/opt/novell/tomcat6 directory is the standard Tomcat installation directory on OES 11.

webapps directory

The webapps directory holds a subdirectory for each GroupWise Web application that is installed on the server.

gw directory

The gw directory holds all WebAccess Application files that are installed into Tomcat.

index.html file

The index.html file in the gw directory is the WebAccess Login page. It is displayed when you go to the following URL:

http://web_server_address/gw

gwcal directory

The gwcal directory holds all Calendar Publishing Host Application files that are installed into Tomcat.

index.html file

The index.html file in the gwcal directory is the default HTML page for the GroupWise Calendar Publishing Host. It is displayed when you go to the following URL:

http://web_server_address/gwcal
For more information, see “Calendar Publishing Host” in the GroupWise 8 Administration Guide.

**gwmon directory**

The gwmon directory holds all Monitor Application files that are installed into Tomcat.

**gwmon/index.html file**

The index.html file in the gwmon directory is the default HTML page for the GroupWise Monitor Web console. It is displayed when you go to the following URL:

http://web_server_address/gwmon

For more information, see “Monitor Web Console” in “Monitor” in the GroupWise 8 Administration Guide.

***.war files**

The *.war files are Web application archive files, compressed files from which the Web application files are extracted during installation to create the corresponding application subdirectory.

### 9.2.3 /usr/sbin directory

The /usr/sbin directory is the standard location for application scripts that can be run from any directory on the Linux server. The /usr/sbin directory is always on included in the PATH environment variable. Files in this directory are links to the corresponding script files in /etc/init.d.

### 9.3 OES 2 Linux Apache/Tomcat Installation Directories

In addition to the files installed into the Apache and Tomcat installation directories, GroupWise Web application files are also installed into the GroupWise Web Application Working Directory.
The /etc/opt/novell/httpd directory is the Apache Web server installation directory on OES 2 Linux.

**conf.d directory**

The conf.d directory holds configuration information for each Web application that has been installed for use with Apache.

**gw.conf file**

The gw.conf file includes the information that enables Apache to access the WebAccess Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/webaccess/gw.conf.

**gwcal.conf file**

The gwcal.conf file includes the information that enables Apache to access the Calendar Publishing Host Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/calhost/gwcal.conf.

**gwmon.conf file**

The gwmon.conf file includes the information that enables Apache to access the Monitor Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/monitor/gwmon.conf.

The /var/opt/novell/tomcat5 directory is the standard Tomcat installation directory on OES 2 Linux.

- gwmon
- index.html
- com/novell
- gwmonitor
- help
- gw.war
- gwcal.war
- gwmon.war

GroupWise Monitor document root directory
GroupWise Monitor Web console page
Directory for Monitor Web console help files
Web application archive file for WebAccess
Web application archive file for the Calendar Publishing Host
Web application archive file for Monitor

- /usr/sbin
- rcapache2
- rcnovell-tomcat5

Standard directory for application scripts
Script to start and stop the Apache Web server
Script to start and stop the Novell version of Tomcat
**webapps directory**

The `webapps` directory holds a subdirectory for each GroupWise Web application that is installed on the server.

**gw directory**

The `gw` directory holds all WebAccess Application files that are installed into Tomcat.

**index.html file**

The `index.html` file in the `gw` directory is the WebAccess Login page. It is displayed when you go to the following URL:

`http://web_server_address/gw`

**gwcal directory**

The `gwcal` directory holds all Calendar Publishing Host Application files that are installed into Tomcat.

**index.html file**

The `index.html` file in the `gwcal` directory is the default Web page for the GroupWise Calendar Publishing Host. It is displayed when you go to the following URL:

`http://web_server_address/gwcal`

**gwmon directory**

The `gwmon` directory holds all Monitor Application files that are installed into Tomcat.

**gwmon/index.html file**

The `index.html` file in the `gwmon` directory is the default Web page for the GroupWise Monitor Web console. It is displayed when you go to the following URL:

`http://web_server_address/gwmon`

**.war files**

The `.war` files are Web application archive files, compressed files from which the Web application files are extracted during installation to create the corresponding application subdirectory.

**9.3.3 /usr/sbin directory**

The `/usr/sbin` directory is the standard location for application scripts that can be run from any directory on the Linux server. The `/usr/sbin` directory is always on included in the PATH environment variable. Files in this directory are links to the corresponding script files in `/etc/init.d`. 
9.4 SLES 11 Apache/Tomcat Installation Directories

In addition to the files installed into the Apache and Tomcat installation directories, GroupWise Web application files are also installed into the GroupWise Web Application Working Directory.

- `/etc/apache2` - Apache installation directory
  - `httpd.conf` - Main Apache Web server configuration file
  - `conf.d` - Apache application configuration directory
  - `gw.conf` - WebAccess Application configuration file
  - `gwcalf.conf` - Calendar Publishing Host Application configuration file
  - `gwmon.conf` - Monitor Application configuration file

- `/usr/share/tomcat6` - Tomcat installation directory
  - `webapps` - Web applications directory
    - `gw` - WebAccess document root directory
      - `index.html` - WebAccess Login page
    - `gwcalf` - Calendar Publishing Host document root directory
      - `index.html` - Calendar Publishing Host page
    - `gwmon` - GroupWise Monitor document root directory
      - `index.html` - GroupWise Monitor Web console page
      - `com/novell/gwmonitor` - Directory for Monitor Web console help files
    - `gw.war` - Web application archive file for WebAccess
    - `gwcalf.war` - Web application archive file for the Calendar Publishing Host
    - `gwmon.war` - Web application archive file for Monitor

- `/usr/sbin` - Standard directory for application scripts
  - `rcapache2` - Script to start and stop the Apache Web server
  - `rctomcat6` - Script to start and stop Tomcat

9.4.1 `/etc/apache2` directory

The `/etc/apache2` directory is the standard Apache Web server installation directory on SLES 11.

httpd.conf file

The `httpd.conf` file is the main Apache configuration file.
conf.d directory

The conf.d directory holds configuration information for each Web application that has been installed for use with Apache.

gw.conf file

The gw.conf file provides the information that enables Apache to access the WebAccess Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/webaccess/gw.conf.

gwcal.conf file

The gwcal.conf file provides the information that enables Apache to access the GroupWise Calendar Publishing Host Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/calhost/gwcal.conf.

gwmon.conf file

The gwmon.conf file provides the information that enables Apache to access the Monitor Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/monitor/gwmon.conf.

9.4.2 /usr/share/tomcat6 directory

The /usr/share/tomcat6 directory is the standard Tomcat installation directory on SLES 11.

webapps directory

The webapps directory holds a subdirectory for each GroupWise Web application that is installed on the server.

gw directory

The gw directory holds all WebAccess Application files that are installed into Tomcat.

index.html file

The index.html file in the gw directory is the WebAccess Login page. It is displayed when you go to the following URL:

http://web_server_address/gw

gwcal directory

The gwcal directory holds all Calendar Publishing Host Application files that are installed into Tomcat.

index.html file

The index.html file in the gwcal directory is the default page for the GroupWise Calendar Publishing Host. It is displayed when you go to the following URL:

http://web_server_address/gwcal
gwmon directory

The gwmon directory holds all Monitor Application files that are installed into Tomcat.

index.html file

The index.html file in the gwmon directory is the default page for the GroupWise Monitor Web console. It is displayed when you go to the following URL:

http://web_server_address/gwmon

*.war files

The *.war files are Web application archive files, compressed files from which the Web application files are extracted during installation to create the corresponding application subdirectory.

9.4.3 /usr/sbin

The /usr/sbin directory is the standard location for application scripts that can be run from any directory on the Linux server. The /usr/sbin directory is always included in the PATH environment variable. Files in this directory are links to the corresponding script files in /etc/init.c.

9.5 SLES 10 Apache/Tomcat Installation Directories

In addition to the files installed into the Apache and Tomcat installation directories, GroupWise Web application files are also installed into the GroupWise Web Application Working Directory.

/etc/apache2
httpd.conf
conf.d
gw.conf
gwcal.conf
gwmon.conf

Apache installation directory
Main Apache Web server configuration file
Apache application configuration directory
WebAccess Application configuration file
Calendar Publishing Host Application configuration file
Monitor Application configuration file

/srv/www/tomcat5/base
webapps
gw
index.html
webaccess
yyyyymmddhhmm
help
gwcal
index.html

Tomcat installation directory
Web applications directory
WebAccess document root directory
WebAccess Login page
Directory for WebAccess and Web console help files
Calendar Publishing Host document root directory
Calendar Publishing Host page
9.5.1 /etc/apache2 directory

The /etc/apache2 directory is the standard Apache Web server installation directory on SLES 11.

httpd.conf file
The httpd.conf file is the main Apache configuration file.

conf.d directory
The conf.d directory holds configuration information for each Web application that has been installed for use with Apache.

gw.conf file
The gw.conf file provides the information that enables Apache to access the WebAccess Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/webaccess/gw.conf.

gwcal.conf file
The gwcal.conf file provides the information that enables Apache to access the GroupWise Calendar Publishing Host Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/calhost/gwcal.conf.

gwmon.conf file
The gwmon.conf file provides the information that enables Apache to access the Monitor Application files that have been installed into Tomcat. This file is a link to /etc/opt/novell/groupwise/monitor/gwmon.conf.

9.5.2 /srv/www/tomcat5/base directory

The /srv/www/tomcat5/base directory is the standard Tomcat installation directory on SLES 10.
webapps directory

The webapps directory holds a subdirectory for each GroupWise Web application that is installed on the server.

gw directory

The gw directory holds all WebAccess Application files that are installed into Tomcat.

index.html file

The index.html file in the gw directory is the WebAccess Login page. It is displayed when you go to the following URL:

http://web_server_address/gw

gwcal directory

The gwcal directory holds all Calendar Publishing Host Application files that are installed into Tomcat.

index.html file

The index.html file in the gwcal directory is the default page for the GroupWise Calendar Publishing Host. It is displayed when you go to the following URL:

http://web_server_address/gwcal

gwmon directory

The gwmon directory holds all Monitor Application files that are installed into Tomcat.

index.html file

The index.html file in the gwmon directory is the default page for the GroupWise Monitor Web console. It is displayed when you go to the following URL:

http://web_server_address/gwmon

*.war files

The *.war files are Web application archive files, compressed files from which the Web application files are extracted during installation to create the corresponding application subdirectory.

9.5.3 /usr/sbin

The /usr/sbin directory is the standard location for application scripts that can be run from any directory on the Linux server. The /usr/sbin directory is always included in the PATH environment variable. Files in this directory are links to the corresponding script files in /etc/init.d.
9.6 Windows IIS/Tomcat Installation Directories

- `c:/Inetpub/wwwroot`: IIS directory for publishing content to the Web
- `c:/Novell/GroupWise/Tomcat5.5`: Tomcat installation directory
  - `webapps/gw`: GroupWise-specific Web applications directory
    - `index.html`: GroupWise-specific Web services page
  - `com/novell/webaccess`: Directory for WebAccess help files
    - `webaccess`: Directory for GroupWise WebAccess Application files
  - `com/novell/webpublisher`: Directory for WebPublisher help files
    - `webpublisher`: Directory for GroupWise WebPublisher Application files
  - `WEB-INF`: GroupWise Web service information directory
    - `web.xml`: GroupWise Web service configuration file
  - `classes/com/novell`: Directory for Novell product files
    - `webaccess`: Directory for GroupWise WebAccess files
    - `providers`: Subdirectory for service provider files
    - `webpublisher`: Directory for GroupWise WebPublisher files
    - `providers`: Subdirectory for service provider files
  - `classes/templates`: GroupWise Web service template files
  - `webapps/gwcal`: Calendar Publishing Host document root directory
    - `index.html`: Calendar Publishing Host Web services page
  - `WEB-INF`: Calendar Publishing Host Web service information directory
    - `web.xml`: Calendar Publishing Host Web service configuration file
  - `webapps/gwmon`: GroupWise Monitor document root directory
    - `index.html`: GroupWise Monitor Web services page
  - `WEB-INF`: GroupWise Monitor Web service information directory
    - `web.xml`: GroupWise Monitor Web service configuration file
  - `classes/templates`: GroupWise Monitor Web service template files

- `c:/Novell/Groupwise`: Directory for GroupWise Web services files
  - `calhost`: Subdirectory for the Calendar Publishing Host
    - `calhost.cfg`: Calendar Publishing Host configuration file
    - `logs`: Directory for Calendar Publishing Host log files
  - `gwmonitor`: Subdirectory for GroupWise Monitor
    - `gwmonitor.cfg`: Monitor Application configuration file
    - `logs`: Directory for Monitor Application log files
9.6.1 c:/inetpub/wwwroot directory

The /inetpub/wwwroot directory is the standard Internet Information Services directory for publishing content to the Web.

9.6.2 c:/Novell/GroupWise/Tomcat5.5/webapps directory

The /Novell/GroupWise/Tomcat5.5/webapps directory is where applications are installed into the Web server.

gw/index.html file

The index.html file in the gw directory is the default HTML file for the GroupWise client Web services (WebAccess and WebPublisher) and displays when you go to the following URL:

http://web_server_address/gw

From this default page, WebAccess and WebPublisher URLs can be easily accessed:

http://web_server_address/gw/webacc
http://web_server_address/gw/webpub

gw/WEB-INF/web.xml file

The web.xml file tells the Web server where the various GroupWise service providers and their configuration files are located. By default, they are located in subdirectories under sys:\Novell\GroupWise.

gw/WEB-INF/classes/com/novell/webaccess/providers directory

The providers directory holds the Java class and properties files for the WebAccess providers. For more information, see “Adding or Removing Service Providers” in “WebAccess” in the GroupWise 8 Administration Guide.

gw/WEB-INF/classes/com/novell/webpublisher/providers directory

The providers directory holds the Java class and properties files for the WebPublisher providers. For more information, see “Adding or Removing Service Providers” in “WebAccess” in the GroupWise 8 Administration Guide.
**gw/WEB-INF/classes/templates directory**

The templates directory holds subdirectories for the various file formats used in various browser environments. For more information, see “Modifying WebAccess Application Template Settings” in “WebAccess” in the GroupWise 8 Administration Guide.

**gwcal/index.html file**

The index.html file in the gwcal directory is the default HTML file for the GroupWise Calendar Publishing Host Web service and displays when you go to the following URL:

http://web_server_address/gwcal

**gwcal/WEB-INF/web.xml file**

The web.xml file tells the Web server where the Calendar Publishing Host service provider and its configuration file are located.

**gwmon/index.html file**

The index.html file in the gwmon directory is the default HTML file for the GroupWise Monitor Web service and displays when you go to the following URL:

http://web_server_address/gwmon

**gwmon/WEB-INF/web.xml file**

The web.xml file tells the Web server where the GroupWise Monitor service provider and its configuration file are located.

**gwmon/WEB-INF/classes/templates directory**

The templates directory holds subdirectories for the various file formats used in various browser environments. For more information, see “Modifying Monitor Application Template Settings” in “Monitor” in the GroupWise 8 Administration Guide.

**9.6.3 c:/Novell/GroupWise directory**

The /Novell/GroupWise directory holds subdirectories for each GroupWise application.

**9.6.4 calhost directory**

The calhost directory is created when you install the Calendar Publishing Host.

**calhost.cfg file**

The calhost.cfg file holds Calendar Publishing Host configuration information. For more information, see “Configuring the Calendar Publishing Host” in “Calendar Publishing Host” in the GroupWise 8 Administration Guide.
9.6.5 gwmonitor directory

The gwmonitor directory is created when you install GroupWise Monitor.

gwmonitor.cfg file

The gwmonitor.cfg file holds the same configuration information that is stored on the Monitor Application object (named GroupWiseMonitor) in eDirectory. For more information, see “Configuring the Monitor Application” in “Monitor” in the GroupWise 8 Administration Guide.

logs directory

The logs subdirectory holds Monitor Application log files. For more information, see “Modifying Monitor Application Log Settings” in “Monitor” in the GroupWise 8 Administration Guide.

9.6.6 webaccess directory

The webaccess directory holds files used by the WebAccess Application.

webacc.cfg file

The webacc.cfg file holds the same configuration information that is stored on the WebAccess Application object (named GroupWiseWebAccess) in eDirectory. For more information, see “Configuring the WebAccess Application” in “WebAccess” in the GroupWise 8 Administration Guide.

commgr.cfg file

The commgr.cfg file holds the same configuration information that is stored on the GroupWise Provider object (named GroupWiseProvider) in eDirectory, including the IP address, port number, number of threads, and encryption key for the WebAccess Agent. This information enables the WebAccess Application to communicate with the WebAccess Agent. For more information, see “Configuring the GroupWise Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

A copy of the commgr.cfg file is automatically maintained in the WebAccess Agent queue directory (domain\wpgate\webac80a).

ldap.cfg file

The ldap.cfg file holds the same configuration information that is stored on the LDAP Provider object (named LDAPProvider) in eDirectory. For more information, see “Configuring the LDAP Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.
logs directory

The logs subdirectory holds WebAccess Application log files. For more information, see “Controlling WebAccess Application Logging” in “WebAccess” in the GroupWise 8 Administration Guide.

users directory

The users subdirectory holds session files for WebAccess users. If WebAccess times out after a period of user inactivity, the user’s session information is saved. When the user logs back in, the session information is retrieved so that the user can continue working without loss of data. Also, users’ message text is saved during each session, so that if the WebAccess Application is restarted or goes down, users do not lose the message text they were composing at the time.

9.6.7 webpublisher directory

The webpublisher directory holds files used by the WebPublisher Application.

webpub.cfg file

The webpub.cfg file holds the same configuration information that is stored on the WebPublisher Application object (named GroupWiseWebPublisher) in eDirectory. For more information, see “Configuring the WebPublisher Application” in “WebAccess” in the GroupWise 8 Administration Guide.

commgr.cfg file

The commgr.cfg file holds the same configuration information that is stored on the GroupWise Provider object (named GroupWiseProvider) in eDirectory, including the IP address, port number, number of threads, and encryption key for the WebAccess Agent. This information enables the WebAccess Application to communicate with the WebAccess Agent. For more information, see “Configuring the GroupWise Service Provider” in “WebAccess” in the GroupWise 8 Administration Guide.

A copy of the commgr.cfg file is automatically maintained in the WebAccess Agent queue directory (domain\wpgate\webac80a).

logs directory

The logs subdirectory holds WebAccess Application log files. For more information, see “Controlling WebAccess Application Logging” in “WebAccess” in the GroupWise 8 Administration Guide.

9.7 GroupWise Web Application Working Directory

- /var/opt/novell/groupwise
- c:\novell\groupwise
- sys:\novell\groupwise

Directory for GroupWise Web application files on Linux
Directory for GroupWise Web application files on Windows
Directory for GroupWise Web application files on NetWare
The /var/opt/novell/groupwise directory holds a subdirectory for each GroupWise Web application that is installed on the Linux server.

The c:\Novell\GroupWise directory holds a subdirectory for each GroupWise Web application that is installed on the Windows server.

The sys:\Novell\GroupWise directory holds a subdirectory for each GroupWise Web application that is installed on the NetWare server.

webaccess directory

The webaccess directory is created when you install WebAccess. It holds files used by the WebAccess Application.

webacc.cfg file

The webacc.cfg file holds WebAccess configuration information.

ldap.cfg file

The ldap.cfg file holds LDAP configuration information.

gwac.xml file

The gwac.xml file holds WebAccess access control configuration information.

logs directory

The logs subdirectory holds WebAccess Application log files.
users directory

The users subdirectory holds session files for WebAccess users.

If WebAccess times out after a period of user inactivity, the user’s session information is saved. When the user logs back in, the session information is retrieved so that the user can continue working without loss of data. Also, users’ message text is saved during each session, so that if the WebAccess Application is restarted or goes down, users do not lose the message text they were composing at the time.

calhost directory

The calhost directory is created when you install the Calendar Publishing Host. It holds files that are used by the Calendar Publishing Host Application.

calhost.cfg file

The calhost.cfg file holds Calendar Publishing Host configuration information.

logs directory

The logs subdirectory holds Calendar Publishing Host Application log files.

monitor directory

The monitor directory is created when you install Monitor. It holds files that are used by the Monitor Application.

gwmonitor.cfg file

The gwmonitor.cfg file holds Monitor Application configuration information.

logs directory

The logs subdirectory holds Monitor Application log files.
10 Software Distribution Directory

- Section 10.1, “NetWare/Windows Software Distribution Directory,” on page 157

10.1 NetWare/Windows Software Distribution Directory

- `software distribution directory` Master copy of GroupWise software
  - `setup.exe` GroupWise Installation program
- `agents` GroupWise agent software
  - `install.exe` GroupWise Agent Installation program
  - `nlm` NetWare agent software
  - `nt` Windows agent software
  - `startups` Agent startup files
  - `snmp` GroupWise MIB files
  - `help` Agent Web console help files
- `domain` Domain data dictionary files
  - `wpdomain.dc` Data dictionary for GroupWise 4.x domain databases
  - `gwdom.dc` Data dictionary for GroupWise 8, 7, 6.x, and 5.x domain databases
  - `wphost.dc` Data dictionary for GroupWise 4.x post office databases
  - `gwpo.dc` Data dictionary for GroupWise 8, 7, 6.x, and 5.x post office databases
- `po` Post office data dictionary files
  - `ngwguard.dc` Data dictionary for message store databases
  - `wpghost.dc` Data dictionary for GroupWise 4.x post office databases
  - `gwpo.dc` Data dictionary for GroupWise 8, 7, 6.x, and 5.x post office databases
- `client` GroupWise client software
  - `win32` GroupWise client for Windows
    - `setup.exe` GroupWise client installation program
    - `setup.cfg` Configuration file for the AutoUpdate feature
    - `gwcheck` GroupWise Check utility
    - `ofviews` GroupWise client view files
    - `ppforms` GroupWise client day planner forms
    - `uwl` GroupWise client user word lists
- `admin` GroupWise administrator software
  - `cladmin` GroupWise snap-ins to ConsoleOne
  - `monitor` GroupWise Monitor software
10.1.1 \grpwise\software directory

The GroupWise software distribution directory resides initially on the GroupWise 8 DVD or GroupWise 8 downloaded software image. GroupWise Administration is installed directly from the original media. In addition, during installation, you create a software distribution directory on your network from which you subsequently install the GroupWise agents and GroupWise client software.

The default software distribution directory is \grpwise\software.

10.1.2 setup.exe file

The setup.exe file is the GroupWise Installation program. You can run it in a software distribution directory to install software from that location.

10.1.3 agents directory

The agents subdirectory contains all files associated with GroupWise agents:

- Post Office Agent (POA)
- Message Transfer Agent (MTA)

install.exe file

The install.exe file in the agent subdirectory is the installation program you run to install the GroupWise agents on the servers where you will run the POA and/or MTA. For instructions, see “Installing GroupWise Agents” in the GroupWise 8 Installation Guide.

nlm directory

The nlm subdirectory in the agent subdirectory contains the GroupWise agent NLM files installed on NetWare servers. See “NetWare Installation Directory” on page 99.

nt directory

startups directory

The startups subdirectory contains the default startup files for the GroupWise agents. During installation, a customized startup file is created for each agent that includes the location of the domain or post office serviced by that agent. The customized startup files are named after the domain or post office for which they are created. See “NetWare Installation Directory” on page 99 or “Windows Installation Directory” on page 108.

snmp directory

The snmp subdirectory contains GroupWise MIB files. For more information, see “Using an SNMP Management Console” in “Post Office Agent” and “Message Transfer Agent” in the GroupWise 8 Administration Guide.

help directory

The help directory holds the help files that you can view from the agent Web consoles. See “Using the POA Web Console” in “Post Office Agent” and “Using the MTA Web Console” in “Message Transfer Agent” in the GroupWise 8 Administration Guide.

10.1.4 domain directory

The domain subdirectory contains the files from which domains are created.

wpdomain.dc file

The wpdomain.dc file is the distribution copy of the data dictionary for rebuilding GroupWise 4.x domain databases (wpdomain.db files) in secondary domains.

If the wpdomain.dc file is missing from the primary domain, you cannot rebuild GroupWise 4.x secondary domains. The original wpdomain.dc file is located in the domain directory of the GroupWise distribution media.

Historical Note: WordPerfect Office (WP Office), the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wpdomain.dc. Some naming conventions were originally preserved for backward compatibility.

gwdom.dc file

The gwdom.dc file is the distribution copy of the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and GroupWise 5.x domain databases (wpdomain.db files) in secondary domains.

If the gwdom.dc file is missing from the primary domain, you cannot create or rebuild GroupWise 8/7/6.x/5.x secondary domains. The original gwdom.dc file is located in the domain subdirectory of the GroupWise distribution media.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wpdomain.db. Some naming conventions were originally preserved for backward compatibility.
**wphost.dc file**

The *wphost.dc* file is the distribution copy of the data dictionary for rebuilding GroupWise 4.x post office databases (*wphost.db* files).

If the *wphost.dc* file is missing from a domain, you cannot rebuild GroupWise 4.x post offices in that domain. The original *wphost.dc* file is located in the *domain* subdirectory of the GroupWise distribution media. There is also a copy in the *po* subdirectory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name *wphost.dc*. Some naming conventions were originally preserved for backward compatibility.

**gwpo.dc file**

The *gwpo.dc* file is the distribution copy of the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and GroupWise 5.x post office databases (*wphost.db* files).

If the *gwpo.dc* file is missing from a domain, you cannot create or rebuild GroupWise 8/7/6.x/5.x post offices in that domain. The original *gwpo.dc* file is located in the *domain* directory of the GroupWise 8 DVD or GroupWise 8 downloaded software image. There is also a copy in the *po* directory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name *wphost.db*. Some naming conventions were originally preserved for backward compatibility.

### 10.1.5 po directory

The *po* subdirectory contains the files from which post offices are created.

**ngwguard.dc file**

The *ngwguard.dc* file is the distribution copy of the data dictionary for building the following databases in the post office:

- *ngwguard.db* (guardian database)
- *dmxxmn01-FF* (document management databases)
- *msgnnn.db* (message databases)
- *userxxx.db* (user databases)
- *puxxxxx.db* (databases for replicated items like shared folders)

If the *ngwguard.dc* file is missing from a post office, new databases cannot be created in the post office, so the post office cannot grow. The original *ngwguard.dc* file is located in the *po* directory of the GroupWise 8 DVD or GroupWise 8 downloaded software image.

In Remote mode, the GroupWise client also uses the *ngwguard.dc* file as the data dictionary for its local databases.

### 10.1.6 client directory

The *client* subdirectory contains all files associated with GroupWise Windows client. See “Client” in the *GroupWise 8 Administration Guide*.
**win32 directory**


**setup.exe file**

The `setup.exe` file is the program GroupWise client users run to install and set up the GroupWise client on their Windows workstations. See “Client” in the *GroupWise 8 Administration Guide*.

**setup.cfg file**

The `setup.cfg` file enables you to automate installation of the GroupWise Windows client so that your users do not need to respond to the Setup program’s prompts. For more information, see “Understanding the Setup Configuration File” in “Client” in the *GroupWise 8 Administration Guide*.

10.1.7 **gwcheck directory**

The `gwcheck` subdirectory contains the GroupWise Check utility that can be made available in the GroupWise client by clicking `Tools > Repair Mailbox`. For more information, see “Repairing Your Mailbox” in “Maintaining GroupWise” in the *GroupWise 8 Windows Client User Guide*.

10.1.8 **ofviews directory**

The `ofviews` subdirectory contains platform-specific subdirectories of view files for use by the GroupWise client. In addition, the `gwviewxx.ini` and `ofviewxx.ini` files configure custom views on the menus where users select views. The `gwviewxx.ini` file configures GroupWise 8, 7, 6.x, and GroupWise 5.5 views. The `ofviewxx.ini` file configures views from earlier versions of GroupWise.

10.1.9 **ppforms directory**

The `ppforms` subdirectory contains day planner forms for printing GroupWise calendars and tasks.

10.1.10 **uwl directory**

The `uwl` directory stores the `wt61xx.uwl` files that are used when users add words to the word list during spell checking.

10.1.11 **admin directory**

The `admin` subdirectory contains subdirectories for administrative tools that can be used with GroupWise.

**c1admin directory**

The `c1admin` subdirectory contains the GroupWise snap-ins to ConsoleOne.
monitor directory

The admin\monitor subdirectory contains the GroupWise 8/7/6.x Monitor program, an SNMP monitoring program for use with the GroupWise agents. See “Monitor” in the GroupWise 8 Administration Guide.

utility directory

The admin\utility subdirectory contains helpful GroupWise utilities.

gwcheck directory

The admin\utility\gwcheck subdirectory contains the GroupWise Check utility. See “GroupWise Check” in “Standalone Database Maintenance Programs” in the GroupWise 8 Administration Guide.

gwcsrgen directory

The admin\utility\gwcsrgen subdirectory contains the GroupWise Generate CSR utility. See “Server Certificates and SSL Encryption” in “Security Administration” in the GroupWise 8 Administration Guide.

setupip directory

The admin\utility\setupip subdirectory contains supporting programs for the client AutoUpdate feature. See “Customizing the Setup Configuration File” in “Client” in the GroupWise 8 Administration Guide.

10.1.12 internet directory

The internet subdirectory contains subdirectories for GroupWise components that provide Internet connectivity.

gwia directory

The internet\gwia subdirectory contains the GroupWise Internet Agent software, used to connect GroupWise systems across the Internet and to allow GroupWise users to exchange e-mail with users of various Internet e-mail programs. For information about Internet Agent files and directories, see Section 7.5, “Internet Agent Queue Directory,” on page 83 and Section 8.2, “Internet Agent Installation,” on page 110.

For information about the Internet Agent, see “Internet Agent” in the GroupWise 8 Administration Guide.

webaccess directory


For information about WebAccess, see “WebAccess” in the GroupWise 8 Administration Guide.
10.1.13  license directory

The license subdirectory contains the GroupWise Software License Agreement in multiple languages. Run license.exe, then select a language.

10.1.14  common directory

The common subdirectory contains Java files used by various components of GroupWise.

10.1.15  docs directory


10.2  Linux Software Distribution Directory

```bash
/opt/novell/groupwise/software

install

agents

linux

novell-groupwise-agents-ver.date.1386.rpm

novell-groupwise-gwha-ver.date.1386.rpm

novell-sms-ver.1586.rpm

startups

language

strtupxx.poa

strtupxx.mta

grpwise

domain

wpdomain.dc

gwdom.dc

wphost.dc

gwpo.dc

po

ngwguard.dc

wphost.dc

gwpo.dc
```

- Master copy of GroupWise software
- GroupWise Installation script
- GroupWise agent software
- Subdirectory for Linux software
- GroupWise agent package
- GroupWise High Availability service package
- Novell Storage Management Services package
- Subdirectory for startup files
- Language-specific files
- POA startup file
- MTA startup file
- GroupWise agent startup script (POA and MTA)
- Domain data dictionary files
- Data dictionary for GW 4.x domain databases
- Data dictionary for GW 8, 7, 6.x, and 5.x domain databases
- Data dictionary for GW 4.x post office databases
- Data dictionary for GW 8, 7, 6.x, and 5.x post office databases
- Post office data dictionary files
- Data dictionary for message store databases
- Data dictionary for GW 4.x post office databases
- Data dictionary for GW 8, 7, 6.x, and 5.x post office databases
GroupWise client software
Subdirectory for Linux software
Linux client installation script
Linux client package

GroupWise Check Utility package

GroupWise client view files

GroupWise administrator software
GroupWise snap-ins to ConsoleOne package

GroupWise Database Copy Utility package

GroupWise Check Utility package

ConsoleOne JRE update package

GroupWise Monitor software
Subdirectory for Linux software
Monitor Agent package

Monitor Application package

Subdirectory for startup files
Monitor startup script
Monitor startup script for automatic start on reboot

Internet connectivity software

GroupWise Internet Agent software
Subdirectory for Linux software
GroupWise Internet Agent package

GroupWise High Availability service package

Subdirectory for boilerplate supporting files
Internet Agent startup file
Host authentication configuration file
MIME encoding configuration file
Database dictionary for the access control database
Message for non-MIME recipients
Preamble message in various languages
File for customizing status messages
Subdirectory for startup files
Internet Agent startup script
The GroupWise software distribution directory resides initially on the GroupWise 8 DVD or GroupWise 8 downloaded software image. GroupWise Administration is installed directly from the original media. In addition, during installation, you can create a software distribution directory on your network from which you subsequently install the GroupWise agents and GroupWise client software.

The default software distribution directory is /opt/novell/groupwise/software.

### 10.2.1 /opt/novell/groupwise/software directory

The GroupWise software distribution directory resides initially on the GroupWise 8 DVD or GroupWise 8 downloaded software image. GroupWise Administration is installed directly from the original media. In addition, during installation, you can create a software distribution directory on your network from which you subsequently install the GroupWise agents and GroupWise client software.

The default software distribution directory is /opt/novell/groupwise/software.

#### install file

The install file is the script you use to install all components of GroupWise on Linux. See “Linux: Setting Up a Basic GroupWise System” in the GroupWise 8 Installation Guide.

### 10.2.2 agents directory

The agents subdirectory contains all files associated with GroupWise agents:

- Post Office Agent (POA)
- Message Transfer Agent (MTA)
The `novell-groupwise-agents.version.date.i386.rpm` file is the GroupWise agent package that is installed by the Installation script. It installs the POA and the MTA. You can install the agent package manually if necessary. To see what files are installed by the package, see Section 8.1.2, “Linux Installation Directory,” on page 103.

The `novell-groupwise-gwha.version.date.i386.rpm` file is the GroupWise High Availability service package that is installed by the Installation script. It is automatically installed along with the POA and the MTA. You can install the High Availability package manually if necessary. To see what files are installed by the package, see Section 8.1.2, “Linux Installation Directory,” on page 103.

The `novell-sms-version.i586.rpm` file is the Novell Storage Management Services package that is used in conjunction with the Service Agent for File Systems (TSAFS) and TSAFS for GroupWise (TSAFSGW) for the purpose of backing up GroupWise databases in a live GroupWise system. It is not installed by the Installation script but must be installed manually, as described in “Linux: Running TSAFS and TSAFSGW” in “Databases” in the GroupWise 8 Administration Guide.

The `startups` subdirectory contains the default startup files for the GroupWise agents. During installation, a customized startup file is created for each agent that includes the location of the domain or post office serviced by that agent. The customized startup files are named after the domain or post office for which they are created. See Section 8.1.2, “Linux Installation Directory,” on page 103.

The `grpwise` file is the GroupWise agent startup script. It is installed in `/etc/init.d`. If you choose to have the agents start automatically when the server reboots, the Installation script places symbolic links to it named `Snngrpwise` in the `rc3.d` and `rc5.d` subdirectories of `/etc/init.d`. For more information, see “Installing and Starting the Linux GroupWise Agents” in “Installing a Basic GroupWise System” in the GroupWise 8 Installation Guide.

The `wpdomain.dc` file is the distribution copy of the data dictionary for rebuilding GroupWise 4.x domain databases (`wpdomain.db` files) in secondary domains.

If the `wpdomain.dc` file is missing from the primary domain, you cannot rebuild GroupWise 4.x secondary domains. The original `wpdomain.dc` file is located in the `domain` directory of the GroupWise distribution media.
Historical Note: WordPerfect Office (WP Office), the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wdomain.dc. Some naming conventions were originally preserved for backward compatibility.

**gwdom.dc file**

The gwdom.dc file is the distribution copy of the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and 5.x domain databases (wdomain.db files) in secondary domains.

If the gwdom.dc file is missing from the primary domain, you cannot create or rebuild GroupWise 8/7/6.x/5.x secondary domains. The original gwdom.dc file is located in the domain subdirectory of the GroupWise distribution media.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Hence, the wp in wdomain.db. Some naming conventions were originally preserved for backward compatibility.

**wphost.dc file**

The wphost.dc file is the distribution copy of the data dictionary for rebuilding GroupWise 4.x post office databases (wphost.db files).

If the wphost.dc file is missing from a domain, you cannot rebuild GroupWise 4.x post offices in that domain. The original wphost.dc file is located in the domain subdirectory of the GroupWise distribution media. There is also a copy in the po subdirectory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name whost.dc. Some naming conventions were originally preserved for backward compatibility.

**gwpo.dc file**

The gwpo.dc file is the distribution copy of the data dictionary for creating and rebuilding GroupWise 8, 7, 6.x, and 5.x post office databases (wphost.db files).

If the gwpo.dc file is missing from a domain, you cannot create or rebuild GroupWise 8/7/6.x/5.x post offices in that domain. The original gwpo.dc file is located in the domain directory of the GroupWise 8 DVD or GroupWise 8 downloaded software image. There is also a copy in the po directory.

Historical Note: WP Office, the predecessor of GroupWise, was originally designed by WordPerfect Corporation (WPCorp). Post offices were originally called hosts. Hence, the name wphost.db. Some naming conventions were originally preserved for backward compatibility.

**10.2.4 po directory**

The po subdirectory contains the files from which post offices are created.

**ngwguard.dc file**

The ngwguard.dc file is the distribution copy of the data dictionary for building the following databases in the post office:

- ngwguard.db (guardian database)

dmxxnn01-FF (document management databases)
msgnnn.db (message databases)
userxxx.db (user databases)
puxxxxx.db (databases for replicated items like shared folders)

If the ngwguard.dc file is missing from a post office, new databases cannot be created in the post office, so the post office cannot grow. The original ngwguard.dc file is located in the po directory of the GroupWise 8 DVD or GroupWise 8 downloaded software image.

In Remote mode, the GroupWise client also uses the ngwguard.dc file as the data dictionary for its local databases.

10.2.5 client directory


install file

The install file is the script that GroupWise Linux client users run to install and set up the GroupWise client on their Linux workstations. See “Installing and Starting the GroupWise Linux Client” in the GroupWise 8 Installation Guide.

novell-groupwise-gwclient-version.date.i386.rpm

The novell-groupwise-client.version.date.i386.rpm file is the GroupWise client package that is installed by the Installation script. You can install the client package manually if necessary. To see what files are installed by the package, see Section 11.2, “Linux Client,” on page 176.

novell-groupwise-gwcheck-version.date.i386.rpm file

The novell-groupwise-gwcheck.version.date.i386.rpm file is the GroupWise Check utility package. It is not installed by the Installation script but must be installed manually, as described in “Using GWCheck on Linux” in “Databases” in the GroupWise 8 Administration Guide.

10.2.6 ofviews directory

The client\ofviews subdirectory contains platform-specific subdirectories of view files for use by the GroupWise client. On Linux, the win subdirectory contains the view files for the Windows client, so that users on a Linux post office can use the Windows client if desired. The Linux client does not use view files like the Windows client does.

In addition, the gwviewxx.ini and ofviewxx.ini files configure custom views on the menus where users select views in the Windows client. The gwviewxx.ini file configures GroupWise 8, 7, 6.x, and 5.5 views. The ofviewxx.ini file configures views from earlier versions of GroupWise.

10.2.7 admin directory

The admin subdirectory contains subdirectories for administrative tools that can be used with GroupWise.
**novell-groupwise-admin-version.date.i386.rpm file**

The `novell-groupwise-admin-version.date.i386.rpm` file is the GroupWise administrator package that is installed by the Installation script. It contains the GroupWise Administrator snap-ins to ConsoleOne. You can install the admin package manually if necessary.

**novell-groupwise-dbcopy-version.date.i386.rpm file**

The `novell-groupwise-dbcopy-version.date.i386.rpm` file is the GroupWise Database Copy utility package. It is not installed by the Installation script but must be installed manually, as described in “Using DBCopy on Linux” in “Databases” in the *GroupWise 8 Administration Guide*.

**novell-groupwise-gwcheck-version.date.i386.rpm file**

The `novell-groupwise-gwcheck-version.date.i386.rpm` file is the GroupWise Check utility package. It is not installed by the Installation script but must be installed manually, as described in “Using GWCheck on Linux” in “Databases” in the *GroupWise 8 Administration Guide*.

**NOVLc1Linuxjre-version.i386.rpm file**

The `NOVLc1Linuxjre-version.i386.rpm` file is the package that updates ConsoleOne so that it is compatible with the GroupWise Administrator snap-ins. It is installed for you automatically when you install GroupWise administration.

**monitor directory**

The `monitor` subdirectory contains the GroupWise Monitor software. See “Monitor” in the *GroupWise 8 Administration Guide*.

**novell-groupwise-gwmon-version.date.i386.rpm file**

The `novell-groupwise-gwmon-version.date.i386.rpm` file is the GroupWise Monitor Agent package that is installed by the Installation script. You can install the package manually if necessary. To see what files are installed by the package, see Section 8.4, “Monitor Agent Installation,” on page 127 and Section 9, “Web Application Installation Directories on Your Web Server,” on page 133.

**novell-groupwise-monitor-version.date.i386.rpm file**

The `novell-groupwise-monitor-version.date.i386.rpm` file is the GroupWise Monitor Application package that is installed by the Installation script. You can install the package manually if necessary. To see what files are installed by the package, see Section 8.4, “Monitor Agent Installation,” on page 127 and Section 9, “Web Application Installation Directories on Your Web Server,” on page 133.

**grpwise-ma file**

The `grpwise-ma` file is the Monitor Agent startup script. During installation, it is placed in `/etc/init.d`. For more information, see “Starting the Linux Monitor Agent as a Daemon” in “Installing GroupWise Monitor” in the *GroupWise 8 Installation Guide*.
**Snngrpwise-ma file**

The Snngrpwise-ma file is the Monitor Agent startup script that is placed in the rc3.d and rc5.d subdirectories of /etc/init.d if you choose to have the Monitor Agent start automatically when the server reboots. For more information, see “Starting the Linux Monitor Agent as a Daemon” in “Installing GroupWise Monitor” in the GroupWise 8 Installation Guide.

**10.2.8 internet directory**

The internet subdirectory contains subdirectories for GroupWise components that provide and support Internet connectivity.

**gwia directory**

The gwia subdirectory contains the Internet Agent software, used to connect GroupWise systems across the Internet and to allow GroupWise users to exchange e-mail with users of various Internet e-mail programs. See “Internet Agent” in the GroupWise 8 Administration Guide.

**novell-groupwise-gwia-version.date.i386.rpm file**

The novell-groupwise-gwia.version.date.i386.rpm file is the Internet Agent package that is installed by the Installation script. You can install the package manually if necessary. To see what files are installed by the package, see Section 8.2, “Internet Agent Installation,” on page 110.

**novell-groupwise-gwha.version.date.i386.rpm**

The novell-groupwise-gwha.version.date.i386.rpm file is the GroupWise High Availability service package that is installed by the Installation script. It is automatically installed along with the Internet Agent. You can install the High Availability package manually if necessary. To see what files are installed by the package, see Section 8.2.2, “Linux Installation Directory,” on page 112.

**root directory**

The root directory contains boilerplate versions of the configuration files that are installed to the Internet Agent root directory under the domain directory. For more information, see Section 7.5, “Internet Agent Queue Directory,” on page 83.

**grpwise file**

The grpwise file is the Internet Agent startup script. During installation, it is placed in /etc/init.d. If you choose to have the Internet Agent start automatically when the server reboots, the Installation script places symbolic links to it named Snngrpwise in the rc3.d and rc5.d subdirectories of /etc/init.d. For more information, see “Linux: Starting the Internet Agent” in “Installing the GroupWise Internet Agent” in the GroupWise 8 Installation Guide.

**webacces directory**

The internet\webacces subdirectory contains the GroupWise WebAccess software, which allows users to access their GroupWise mailboxes from a Web browser. See “WebAccess” in the GroupWise 8 Administration Guide.
**novell-groupwise-gwinter-version.date.i386.rpm file**

The `novell-groupwise-gwinter.version.date.i386.rpm` file is the WebAccess Agent package that is installed by the Installation script. You can install the package manually if necessary. To see what files are installed by the package, see Section 8.3, “WebAccess Agent Installation,” on page 117.

**novell-groupwise-webaccess-version.date.i386.rpm file**

The `novell-groupwise-webaccess.version.date.i386.rpm` file is the WebAccess Application package that is installed by the Installation script. You can install the package manually if necessary. To see what files are installed by the package, see Section 8.3, “WebAccess Agent Installation,” on page 117 and Section 9, “Web Application Installation Directories on Your Web Server,” on page 133.

**root directory**

The root directory contains boilerplate versions of the configuration files that are installed to the WebAccess Agent root directory under the domain directory. For more information, see Section 7.4, “WebAccess Agent Queue Directory,” on page 81.

**grpwise file**

The `grpwise` file is the WebAccess Agent startup script. During installation, it is placed in `/etc/init.d`. For more information, see “Starting the Linux WebAccess Agent” in “Installing GroupWise WebAccess” in the *GroupWise 8 Installation Guide*.

**Snngrpwise file**

The `Snngrpwise` file is the WebAccess Agent startup script that is placed in the `rc3.d` and `rc5.d` subdirectories of `/etc/init.d` if you choose to have the WebAccess Agent start automatically when the server reboots. During installation, it is named `grpwise` and placed in `/etc/init.d`. For more information, see “Starting the Linux GroupWise Agents on System Startup” in “Installing GroupWise Agents” in the *GroupWise 8 Installation Guide*.

**webserver directory**

On Linux, you can install Apache and Tomcat along with WebAccess and Monitor. This automatically integrates WebAccess and Monitor into Apache and Tomcat for you. If you are already running Apache and Tomcat, you can choose to integrate WebAccess and Monitor into that installation, or you can have two Apache/Tomcat installations on your server. WebAccess and Monitor cannot be used without a supporting Web server. For more information, see “Determining the WebAccess and WebPublisher Applications’ Configuration” in “Installing GroupWise WebAccess” and “Determining the Monitor Application’s Configuration” in “Installing GroupWise Monitor” *GroupWise 8 Installation Guide*.

**10.2.9 license directory**

The license subdirectory contains the GroupWise Software License Agreement in multiple languages. Use the more command to view the License Agreement.

**10.2.10 docs directory**

The docs subdirectory contains the GroupWise pointer Readme.
10.2.11  gwinst directory

The gwinst subdirectory contains supporting files and subdirectories used by the Installation script.

clusterimport.conf file

The clusterimport.conf file is created by the GroupWise Installation program when you select Configure GroupWise for Clustering. It stores your responses from when you installed a GroupWise agent on the preferred cluster node, so that on subsequent nodes, the Import Clustering Data option is available. For information about clustering GroupWise, see the GroupWise 8 Interoperability Guide.
11 GroupWise Client Installation Directories

- Section 11.1, “Windows Client,” on page 173
- Section 11.2, “Linux Client,” on page 176
- Section 11.3, “Mac Client,” on page 178

### 11.1 Windows Client

- `c:\Program Files\Novell\GroupWise`: Installation directory for GroupWise 8.x Windows client software
- `grpwise.exe`: GroupWise client program
- `notify.exe`: GroupWise Notify program
- `addrbook.exe`: GroupWise Address Book program
- `gwdca.exe`: Document Converter Agent program
- `htrsetup.exe`: Hit the Road setup program
- `gwimpexe.exe`: GroupWise E-Mail Importer Utility
- `gwmailto.exe`: Web browser support program
- `gwareload.exe`: Mailbox mode switching program
- `gwsync.exe`: Mailbox synchronization program
- `ngwguard.dc`: Data dictionary for databases
- `wprof.dc`: Data dictionary for Remote Address Book
- `*.dll`: DLL programs to support GroupWise Windows client
- `*.ocx`: OLE custom controls
- `*.flt`: Graphics filters for Inso viewers
- `*.chm`: Help files to support the GroupWise client
- `gwcheck`: GroupWise Check utility
- `ofviews
  - win
    - *.vew
    - *.ini`: GroupWise view files
- `ppforms
  - *.bfp`: Day planner forms
  - *.prs`: Form description files
  - `gwcheck`: GroupWise Check utility
  - `ofviews
    - win
      - *.vew
      - *.ini`: GroupWise view files
    - `ppforms
      - *.bfp`: Day planner forms
      - *.prs`: Form description files
11.1.1 c:\Program Files\Novell\GroupWise

The GroupWise Windows client installation directory contains all files necessary to run the GroupWise client. The default location is c:\Program Files\Novell\GroupWise.

- For a standard installation, the GroupWise client directory resides on the user’s workstation.
- For a workstation installation, the GroupWise client directory resides on the network and is run by users on many workstations.
- For a remote GroupWise installation, the GroupWise directory contains the same files as would be installed on a workstation connected to the network. Whenever GroupWise cannot make a network connection, it checks for a Remote mailbox to access. See Section 7.7, “Remote Mailbox Directory,” on page 94.

11.1.2 grpwise.exe file

The grpwise.exe file is the GroupWise 8 client program for use with Windows.

11.1.3 gwdca.exe file

The gwdca.exe file is the Document Conversion Agent, which converts attached documents to HTML for indexing. Most indexing is performed by the Document Conversion Agent associated with the POA, as described in “Configuring the Document Conversion Agent for Indexing Specific Document Types” in “Post Office Agent” in the GroupWise 8 Administration Guide. However, when the GroupWise client is not in Online mode, it can perform indexing using the local Document Conversion Agent.

11.1.4 notify.exe file

The notify.exe file is the program that alerts you whenever you have incoming items, when your outgoing items are opened, or when you have an upcoming appointment. Notify can alert you in four ways: a sound, a dialog box, a small icon, or by launching an application.

11.1.5 addrbook.exe file

The addrbook.exe file is the program that accesses the GroupWise Address Book. The Address Book contains information for all Novell eDirectory users, GroupWise external users, GroupWise external entities, GroupWise e-mail distribution lists, and so on.

11.1.6 htrsetup.exe file

The htrsetup.exe file is the setup program for Hit the Road, which creates your Remote mailbox. See “Remote Mode” in “Client” in the GroupWise 8 Administration Guide.

11.1.7 gwimpexe.exe file

The gwimpexe.exe file is the GroupWise E-Mail Importer Utility, which enables you to import supported POP3/IMAP4 accounts into GroupWise. See “POP3 and IMAP4 Accounts” in the GroupWise 8 Windows Client User Guide.
11.1.8  **gwmailto.exe file**

The **gwmailto.exe** file is the program that integrates the GroupWise client with your Web browser. If you select *Internet Browser Mail Integration* during installation, the GroupWise client becomes the default e-mail program on your workstation. See “Installing the GroupWise Clients” in the *GroupWise 8 Installation Guide*.

11.1.9  **gwreload.exe file**

The **gwreload.exe** file is the program that restarts the GroupWise client when you switch between Online, Caching, and Remote modes. See “Using Caching Mode” and “Using Remote Mode” in the *GroupWise 8 Windows Client User Guide*.

11.1.10  **gwsync.exe file**

The **gwsync.exe** file is the program that synchronizes your Online and Caching mailboxes. See “Using Caching Mode” in the *GroupWise 8 Windows Client User Guide*.

11.1.11  **ngwguard.dc file**

The **ngwguard.dc** file is the data dictionary for building databases in the post office. In Remote mode, the GroupWise client also uses the **ngwguard.dc** file as the data dictionary for its local databases.

11.1.12  **wprof.dc file**

The **wprof.dc** file is the data dictionary for the remote GroupWise Address Book (**wprof.db**). Historical Note: An earlier version of the GroupWise client Remote mode, designed by WordPerfect Corporation (WPCorp), was named WP Office Remote. Hence, the **wprof** in **wprof.dc**. Some naming conventions were originally preserved for backward compatibility.

11.1.13  ***.dll files**

* *.dll files are dynamically linked libraries of program code used by executable programs. Language-independent *.dll files are typically located in the same directory with the executable programs they support. Language-specific *.dll files are grouped into subdirectories by language.

11.1.14  ***.ocx files**

* *.ocx files are OLE custom controls. For example, *.ocx files control the Address Book and name completion.

11.1.15  ***.flt files**

* *.flt files are graphics filters used by the Inso viewers incorporated into the GroupWise client. The viewers enable you to view a wide variety of file types from within GroupWise.
11.1.16 *.chm files

*.chm files contain the online documentation for all components of GroupWise. *.chm files are typically located in the same directory with the executable programs they support.

11.1.17 gwcheck directory

The gwcheck directory contains the GroupWise Check utility that can be made available in the GroupWise client by clicking Tools > Repair Mailbox. For more information, see “Repairing Your Mailbox” in “Maintaining GroupWise” in the GroupWise 8 Windows Client User Guide.

11.1.18 ofviews directory

The ofviews directory contains platform-specific subdirectories of view files for use by the GroupWise client.

Historical Note: An earlier version of GroupWise, designed by WordPerfect Corporation (WPCorp), was named WP Office. Hence, the of in ofviews. Some naming conventions were originally preserved for backward compatibility.

win directory

The win subdirectory contains view (*.vew) files for use by the GroupWise client. It also contains initialization (*.ini) files to control display of views.

11.1.19 ppforms directory

The ppforms directory contains day planner forms for printing GroupWise calendars and tasks.

*.bfp files

*.bfp files are form description files that contain binder, filler, and page attributes for forms.

*.prs files

*.prs files are print resource files that indicate which forms are available for which languages. For example, day planners used by English-speaking people in the United States have different forms from day planners used for various languages in Europe.

11.2 Linux Client

```
/opt/novell/groupwise/client  GroupWise Linux client installation directory
    gwclient.desktop  Desktop shortcut for the Linux client
    gwclient.png  Desktop icon for the Linux client shortcut
    bin  Subdirectory for the Linux client executable
          groupwise  Linux client executable
```
The /opt/novell/groupwise/client directory is the default location for the GroupWise Linux client software. The installation program does not provide the opportunity to specify a different location and typically there is no need to move the software.

**gwclient.desktop file**

The gwclient.desktop file creates the GroupWise Linux client shortcut on your Linux desktop.

**gwclient.png file**

The gwclient.png file is the GroupWise icon used for Linux client shortcut.

**bin directory**

The bin directory is the standard Linux location for executable files.

**groupwise file**

The groupwise file is the GroupWise Linux client executable. See “Installing and Starting the GroupWise Linux Client” in the GroupWise 8 Mac/Linux Client User Guide.

**lib directory**

The lib directory is the standard Linux location for library files.

**gwenlxxx.fil file**

The gwenlxxx.fil file provides the language-specific strings for the localized versions of the Linux client. The xx is a two-letter language code.

**ngwguard.dc file**

The ngwguard.dc file is the data dictionary for building the databases used by the Linux client. It is parallel in function to the ngwguard.dc file in the post office.
wprof.dc file

The wprof.dc file is the data dictionary used to create the local copy of the Address Book that resides on the user’s workstation (wprof.db).

*.jar files

The *.jar files efficiently store information referenced by the Linux client. The gwclient.jar file contains the Linux online help information.

*.so files

The *.so files are Linux shared library files the provide information to the Linux client executable.

11.2.4 java directory

The jre directory holds the version of the Java Runtime Environment (JRE) that is required by the Linux client.

11.2.5 logs directory

The logs directory stores log files generated by the Linux client when an error occurs.

11.3 Mac Client

/AApplications/GroupWise GroupWise Mac client installation directory

Contents Standard Macintosh directory for application files

PkgInfo Standard Macintosh package info file

Info.plist Standard Macintosh package list file

MacOS Standard Macintosh directory for operating system files

Resources Standard Macintosh directory for resource files

GroupWise.icns Icons used by the Mac client

lib Subdirectory for Mac client library files

gwenlxxxx.fil Data dictionary for local databases on the user’s workstation

ngwguard.dc Data dictionary for the local copy of the Address Book

wprof.dc Mac client language information files

*.jar Java archive (.jar) files used by the Mac client

*.dylib Dynamic libraries used by the Mac client

11.3.1 /Applications/GroupWise.app directory

The /Applications/GroupWise.app directory contains the GroupWise Mac client.
11.3.2 Contents directory
The Contents directory is the standard location on Macintosh for all files that make up an application.

11.3.3 MacOS directory
The MacOS directory contains the JavaApplicationStub file that enables the Mac client to invoke the Java Virtual Machine (JVM).

11.3.4 Resources directory
The Resources directory is the standard location on Macintosh for files that support an application.

GroupWise.icns file
The GroupWise.icns file contains all the images that display in the Mac client.

11.3.5 lib directory
The lib directory holds library files that provide information required by the Mac client.

gwenlxxx.fil file
The gwenlxxx.file provides the language-specific strings for the localized versions of the Mac client. The xx is a two-letter language code.

ngwguard.dc file
The ngwguard.dc file is the data dictionary for building the databases used by the Mac client. It is parallel in function to the ngwguard.dc file in the post office.

wprof.dc file
The wprof.dc file is the data dictionary used to create the local copy of the Address Book that resides on the user's workstation (wprof.db).

*.jar files
The *.jar files efficiently store information referenced by the Mac client. The gwclient.jar file contains the Mac online help information.

*.dylib files
The *.dylib files are dynamic library files the provide information to the Mac client program.
Documentation Updates

This section lists updates to Troubleshooting 3: Message Flow and Directory Structure that have been made since the initial release of GroupWise 8. The information helps you to keep current on documentation updates and, in some cases, software updates (such as a Support Pack release).

The information is grouped according to the date when Troubleshooting 3: Message Flow and Directory Structure was republished. Within each dated section, the updates are listed by the names of the main table of contents sections.

Troubleshooting 3: Message Flow and Directory Structure has been updated on the following dates:

- Appendix A, “June 26, 2012 (GroupWise 8 SP3),” on page 183
- Appendix B, “August 31, 2009 (GroupWise 8 SP1),” on page 185
<table>
<thead>
<tr>
<th>Location</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 9, &quot;Web Application</td>
<td></td>
</tr>
<tr>
<td>Installation Directories on</td>
<td></td>
</tr>
<tr>
<td>Your Web Server,&quot; on page</td>
<td></td>
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<tr>
<td>133</td>
<td></td>
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</tbody>
</table>
### Location Change

**Directory Structure Diagrams**

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 7.2, &quot;Post Office Directory,&quot; on page 64</td>
<td>Clarified the difference in functionality in the wpcsin priority subdirectories when using mapped/UNC links vs. TCP/IP links, added the gwdca subdirectory.</td>
</tr>
<tr>
<td>Section 7.3, &quot;MTA Local Queue Directory,&quot; on page 77</td>
<td>Noted that the location for MTA log files is different on Linux.</td>
</tr>
<tr>
<td>Section 7.6, &quot;Caching Mailbox Directory,&quot; on page 89</td>
<td>Added default Caching mailbox directories on Windows Vista, Linux, and Mac.</td>
</tr>
<tr>
<td>Section 8.3.4, &quot;Document Viewer Agent Working Directory,&quot; on page 126</td>
<td>Added the gwdvnnn.ste files.</td>
</tr>
<tr>
<td>Section 9, &quot;Web Application Installation Directories on Your Web Server,&quot; on page 133</td>
<td>Updated the Web server installation directories.</td>
</tr>
<tr>
<td>Section 11.3, &quot;Mac Client,&quot; on page 178</td>
<td>Updated the Mac client installation directory.</td>
</tr>
</tbody>
</table>