



Overview of Networking Concepts

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Overview

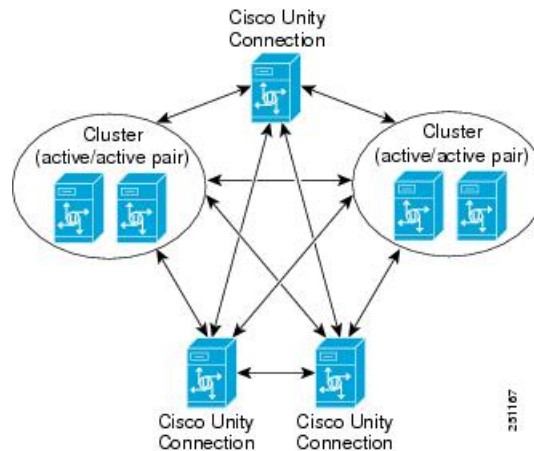
Each Cisco Unity Connection server or cluster has a maximum number of users that it can serve. When the messaging needs of your organization require more than one Unity Connection server or cluster, or combine multiple Unity Connection directories or interconnect Unity Connection with Cisco Unity, you need a way to form a Cisco voicemail organization.

A Cisco voicemail organization can be formed when you link Unity Connection servers or clusters together to form sites, and link a Unity Connection site with another Unity Connection site or with a Cisco Unity site.

About Unity Connection Sites and Intrasite Links

You can join two or more Unity Connection servers or clusters (up to a maximum of ten) to form a well connected network, referred to as a Unity Connection site. The servers joined to the site are referred to as locations. (When a Unity Connection cluster is configured, the cluster counts as one location in the site.) Within a site, each location uses SMTP to exchange directory synchronization information and messages directly with every other location. Each location is said to be linked to every other location in the site via an intrasite link. [Figure 1: A Unity Connection Site Joined by Intrasite Links Among All Locations](#) illustrates a site of five Unity Connection locations joined by intrasite links.

Figure 1: A Unity Connection Site Joined by Intrasite Links Among All Locations



The Unity Connection site concept was known as a Digital Network in Unity Connection release 7.x. You can join 7.x locations and 8.x locations in the same Unity Connection site (intrasite links), as long as you do not link the site to any other site (intersite links require that each Unity Connection location be at release 15).

Each Unity Connection server or cluster is represented in the site as a single Unity Connection location, which is created locally during installation and cannot be deleted from the server itself. When you join the server (or cluster) to an existing location in a site, a Unity Connection location is automatically created for the server (or cluster) on all other locations in the site and these locations begin to perform directory synchronization with the new location. A Unity Connection location can only belong to a single site.

About Cisco Voicemail Organizations and Intersite Links

You can use an intersite link to connect one Unity Connection site to another Unity Connection site, allowing you to scale your organization from ten locations to a maximum of 20. You can also use an intersite link to connect a Unity Connection server or site to a Cisco Unity server or Cisco Unity digital network. The linked sites are referred to as a Cisco voicemail organization.

To create an intersite link, you select a single location from each site to act as a gateway to the other site. All directory synchronization communications pass between the two site gateways, thereby limiting the connectivity requirements and bandwidth usage to the link between those two site gateway locations.

Only one intersite link is supported per site. So, you can link a single Unity Connection site to a single Cisco Unity site, or a single Unity Connection site to another Unity Connection site.

About Linking Two Unity Connection Sites

When you link two Unity Connection sites with an intersite link, the gateway for each site is responsible for collecting information about all changes to the local site directory, and for polling the remote site gateway periodically to obtain information about updates to the remote site directory. The gateways use the HTTP or HTTPS protocol to exchange directory synchronization updates.

Each site gateway is also responsible for transmitting messages that are addressed to recipients at the remote site and for receiving messages that are addressed to recipients in its own site. Intersite messages are transmitted and received using SMTP.

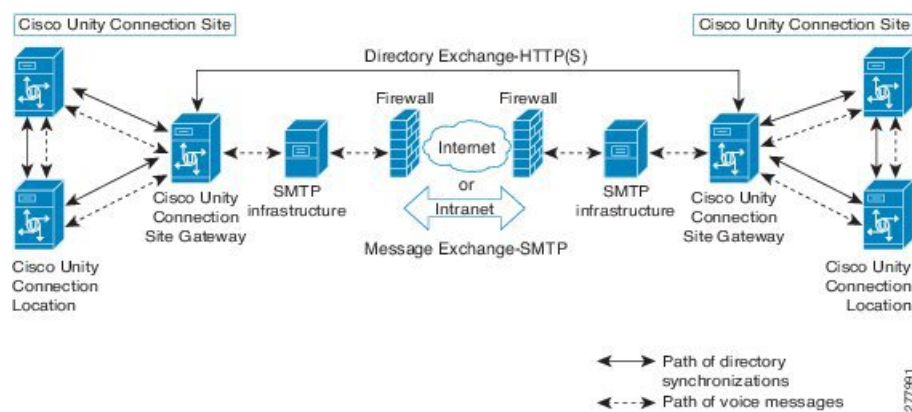
When you use a Unity Connection cluster as a site gateway, only the publisher server in the cluster participates in directory synchronization over the intersite link. However, the subscriber server continues to provide message exchange over the intersite link if the publisher server is down.

Figure 2: A Cisco Voicemail Organization Consisting of Two Unity Connection Sites Connected through an IntersiteLink illustrates the role of the site gateways and the intersite link in connecting two Unity Connection sites.



Note In order to link two Unity Connection sites, all servers in each site must be running Unity Connection version 15.

Figure 2: A Cisco Voicemail Organization Consisting of Two Unity Connection Sites Connected through an IntersiteLink



About VPIM Networking

Unity Connection supports the Voice Profile for Internet Mail (VPIM) protocol, which is an industry standard that allows different voice messaging systems to exchange voice and text messages over the Internet or any TCP/IP network. VPIM is based on the Simple Mail Transfer Protocol (SMTP) and the Multi-Purpose Internet Mail Extension (MIME) protocol.

Unity Connection 15 supports up to 10 VPIM locations and 100,000 VPIM contacts in the Unity Connection directory. These same limits apply either to the directory of a single Unity Connection server or cluster pair, or to the global directory in a site.

If you deploy VPIM in a Unity Connection networking site, you should designate a single Unity Connection location in the site as the bridgehead to handle the configuration of VPIM locations and contacts. The VPIM location data and all contacts at the VPIM location (including automatically created contacts) are replicated from the bridgehead to other locations within the site. When a VPIM message is sent by a user who is homed on a Unity Connection location other than the bridgehead, the message first passes to the bridgehead, which handles forwarding the message to the destination server. Likewise, messages from VPIM contacts are received by the bridgehead and relayed to the home server of the Unity Connection recipient.

If you deploy VPIM in a Cisco Voicemail Organization, you must independently configure each site for VPIM. VPIM locations and contacts are not replicated across intersite links, and site gateways do not relay VPIM messages to other sites.

For detailed information about VPIM networking, see the “VPIM Networking” chapter.

Directory Synchronization

Each location in a Unity Connection site or Cisco Voicemail Organization has its own directory of users and other objects that were created on the location and are said to be “homed” on that location. The collection of objects and object properties that are replicated among locations and sites is referred to as the global directory.

See the following sections for details on the specific objects and object properties that are replicated during directory synchronization:

- [Replication Within a Unity Connection Site](#)
- [Replication Between Two Unity Connection Sites](#)

Replication Within a Unity Connection Site

Within a Unity Connection site, each location replicates the objects and object properties shown in [Table 1: Replicated Objects in a Unity Connection Site](#) from its directory to every other location:

Table 1: Replicated Objects in a Unity Connection Site

Replicated Object	Replicated Properties
Users with mailboxes	<ul style="list-style-type: none"> • Alias • First name, last name, display name, alternate names • Extension, cross-server transfer extension, and alternate extensions • Directory listing status • Partition • Recorded name • SMTP address and SMTP proxy addresses
System contacts	All properties
System distribution lists	All properties, including list membership
Partitions	All properties
Search spaces	All properties, including membership
Unity Connection location	<ul style="list-style-type: none"> • Display name • Host address • SMTP domain name • Unity Connection version
VPIM location	All properties except Contact Creation settings (contact creation is handled on the Unity Connection location that homes the VPIM location)

In most cases, you can use replicated objects just as you would use local objects; for example, you can assign a remote user to be the message recipient of a system call handler, or configure the search scope of a user to use a remote search space. Note the following exceptions:

- System call handler owners must be local users.
- Objects that belong to a partition (users, contacts, handlers, system distribution lists, and VPIM locations) can only belong to local partitions. You can, however, add a remote partition to a local search space.

When a replicated object that is homed on a Unity Connection location is added, modified or deleted, the location sends an object change request containing details about the change to all other locations. The object change requests for a given location are ordered and tracked with a number known as the Unique Sequence Number (USN). For each change, the location increments the USN by one, and notes the change in its database. When a remote location receives an object change request with a USN value that is one higher than the previous request it received from the sender, it updates its copy of the Unity Connection directory accordingly, and increments its tracked copy of the USN for the sender. If a remote location misses one or more changes and receives a change request with a USN that is more than one higher than the previous request it received from this location, it can retrieve the missed changes by requesting the USN values that it missed.

In addition to the USN, each location has another associated number known as the Replication Set. The Replication Set value is used to track the set of changes to which a USN belongs. The Replication Set value is automatically changed during an upgrade, restore, or rollback operation. This ensures that any changes to the database as a result of the operation are replicated to the network. For example, if Location A receives a message with replication set 10 and USN 5 from Location B, and then receives a message with replication set 9 and USN 5 from Location B, it knows to ignore the message with replication set 9 because it is a lower number and the message predates the message with replication set 10. If Location A receives another message from Location B with replication set 10 and USN 5 again, Location A knows this is a duplicate message and can ignore it.

When a bulk operation is in progress on a location, replication is paused on that location until the operation completes.

Replication Between Two Unity Connection Sites

As shown in [Table 2: Objects Replicated from One Unity Connection Site to Another](#), the same objects and object properties are replicated between two Unity Connection sites as within a single Unity Connection site, with the following exceptions:

- System contacts are not replicated between sites.
- For each site, you can select whether to synchronize all system distribution lists that are homed on the remote site. Also, for each individual list, you can select whether the list is offered for replication to the remote site.
- System distribution list membership is not replicated between sites.
- VPIM locations (and contacts) are not replicated between sites.

Table 2: Objects Replicated from One Unity Connection Site to Another

Replicated Object	Replicated Properties
Users with mailboxes	<ul style="list-style-type: none"> • Alias • First name, last name, display name, alternate names • Extension, cross-server transfer extension, and alternate extensions • Directory listing status • Partition • Recorded name ¹ • SMTP address and SMTP proxy addresses
System distribution lists ²	<ul style="list-style-type: none"> • Alias • Display name • Extension • Partition • Recorded name ¹
Partitions	All properties
Search spaces	All properties
Unity Connection locations	<ul style="list-style-type: none"> • Display name • Host address • SMTP domain name • Unity Connection version

¹ For each site, you can select whether to synchronize recorded names for remote site objects.

² A local site system distribution list is only synchronized by the remote site if the Include Distribution Lists When Synchronizing Directory Data check box is checked for the intersite link on the remote site gateway, and the Replicate to Remote Sites Over Intersite Links check box is checked for the list.

Just as with intrasite links, you can use replicated objects from a remote site just as you would use local objects, except that call handler owners must be local users, and objects that belong to a partition can only belong to local partitions.

Intersite replication is accomplished by means of a Feeder service and a Reader service running on each site gateway. The Reader service periodically polls the remote site gateway for any directory changes since the last poll interval. The Feeder service checks the change tracking database for directory changes and responds to poll requests with the necessary information.

On each site gateway, you can configure the schedule on which the Reader polls the remote Feeder for directory data, and the schedule on which it polls for recorded names. In Cisco Unity Connection Administration on a

site gateway, you can access the schedules on the Tools > Task Management page selecting either the Synchronize Directory With Remote Network task or the Synchronize Voice Names With Remote Network task. Alternatively, you can access either task using the Related Links field on the Edit Intersite Link page.

When the Synchronize Voice Names With Remote Network task is enabled, the reader process recorded name files for remote users and system distribution lists (if applicable). Once a recorded name is created for a remote object on the local site, it is updated only if the remote and local filenames for the recorded name differ. If, for example, you change the outgoing codec for recorded names on the remote site gateway, the local site does not update its files because the change does not affect filenames. In order to pull updated copies of recorded names in this case, you must clear all existing recorded names from the local site gateway and then do a full resynchronization using the Clear Recorded Names button and the Resync All button on the Search Intersite Links page in Unity Connection Administration. Replication Between Cisco Unity and Unity Connection Sites

When you link a Cisco Unity site and a Unity Connection site, a contact (known as a Unity Connection Networking subscriber in the Cisco Unity Administrator) is added to the Cisco Unity directory and to Active Directory for each Unity Connection user. Likewise, a user (known as a Cisco Unity user in Cisco Unity Connection Administration) is added to the Unity Connection site global directory for each Cisco Unity user. Unity Connection system contacts and VPIM contacts are not replicated to Cisco Unity, nor are Cisco Unity networking contacts (AMIS, Bridge, VPIM, Internet, or Trusted Internet subscribers) replicated to Unity Connection.

A system distribution list may be replicated from one site to another if the local site is configured to pull lists from the remote site, and if the list itself is configured to allow replication to other sites. Lists that contain system contacts or networking contacts cannot be configured to allow replication to other sites. For those lists that are replicated, only the list name and other information used in addressing are replicated; list membership is not replicated.

[Table 3: Objects Replicated Between Cisco Unity and Unity Connection Sites](#) lists the objects that are replicated between Cisco Unity and Unity Connection sites, and the object properties that are replicated.

Table 3: Objects Replicated Between Cisco Unity and Unity Connection Sites

Replicated Object	Replicated Properties
Unity Connection users with mailboxes	<ul style="list-style-type: none"> • Alias • First name, last name, display name, alternate names • Extension, cross-server transfer extension, and alternate extensions ³ • Directory listing status • Recorded name ⁴ • SMTP address and SMTP proxy addresses
Cisco Unity users	<ul style="list-style-type: none"> • Alias • First name, last name, display name, alternate names • Extension, transfer extension, and alternate extensions • Directory listing status • Recorded name ⁴

Replicated Object	Replicated Properties
System distribution lists ⁵	<ul style="list-style-type: none"> • Alias • Display name • Extension ³ • Recorded name ⁴
Locations	<ul style="list-style-type: none"> • Display name • Host address • SMTP domain name

³ Unity Connection extensions are replicated to Cisco Unity only if they do not conflict with existing objects in the dialing domain as defined on the Cisco Unity site gateway.

⁴ For each site, you can select whether to synchronize recorded names for remote site objects.

⁵ A system distribution list is only synchronized from another site if the intersite link is configured to allow synchronization of remote lists, and the list itself is configured to allow replication to other sites.

Intersite replication is accomplished by means of a Feeder service and a Reader service running on each site gateway. The Reader service periodically polls the remote site gateway for any directory changes since the last poll interval. The Feeder service checks the change tracking database for directory changes and responds to poll requests with the necessary information.

On the Unity Connection site gateway, you can configure the schedule on which the Reader polls the remote Feeder for directory data, and the schedule on which it polls for recorded names. In Cisco Unity Connection Administration on a site gateway, you can access the schedules on the Tools > Task Management page selecting either the Synchronize Directory With Remote Network task or the Synchronize Voice Names With Remote Network task. Alternatively, you can access either task using the Related Links field on the Edit Intersite Link page.

On the Cisco Unity site gateway, you can enable or disable synchronization of recorded names, and configure the interval at which the Reader polls the Unity Connection Feeder for directory updates and recorded names. Note that unlike the Unity Connection Reader, which has separate configurable schedules for polling directory data and recorded names, the Cisco Unity Reader polls for both (if recorded name synchronization is enabled) during each cycle.

When the Synchronize Voice Names With Remote Network task is enabled, the Reader processes the recorded name files for remote users and system distribution lists (if applicable). When a recorded name has been created for a remote object on the local site, it is updated only if the remote and local filenames for the recorded name differ. If, for example, you change the outgoing codec for recorded names on the remote site gateway, the local site does not update its files because the change does not affect filenames. In order to pull updated copies of recorded names from Cisco Unity to Unity Connection, you must clear all existing recorded names from the Unity Connection site gateway using the Clear Recorded Names button on the Networking > Links > Search Intersite Links page in Unity Connection Administration. In order to pull updated copies of recorded names from Unity Connection to Cisco Unity, use the Clear Voice Names button on the Network > Unity Connection Networking Profile page in the Cisco Unity Administrator.

Directory Size Limits

The Unity Connection global directory (the entire collection of local and replicated objects) is subject to certain size limits. The same limits apply both to a single Unity Connection site or to a Cisco Voicemail Organization of linked sites (regardless of whether a Unity Connection site is linked to another Unity Connection site or to a Cisco Unity site). In a Cisco Voicemail Organization, exceeding the limits affects the ability to link sites together, and to replicate additional directory objects across the intersite link when the sites have been linked. In Unity Connection 15, there are separate limits on the number of users and contacts and on the number of system distribution lists.

The size limits at the time of Unity Connection 15 are:

- A combined total of 100,000 users and system contacts (both contacts associated with a VPIM location and those not associated with a location)
- 100,000 system distribution lists
 - 25,000 users per system distribution list
 - 1.5 million total list members across all system distribution lists
 - 20 levels of nesting (where one system distribution list is included as a member of another list)



Note Additional directory object limits exist, and the directory object limits may have been updated since the time of release. For detailed and up-to-date limit information, see the *System Requirements for Cisco Unity Connection Release 15* at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/15/requirements/b_15cucsysreqs.html.

When you attempt to link a Unity Connection site to another Unity Connection site or to a Cisco Unity site, both the user and system contact limit and the system distribution list limit are checked by the Unity Connection site gateway. If the combined number of users and contacts on the gateway after the link is created would exceed the user and contact limit, or the combined number of system distribution lists on the gateway would exceed the list limit, you cannot link the sites. (Note that the global directory sizes of two sites do not necessarily match after they are linked because contacts are not replicated across the intersite link. However, each Unity Connection site is still subject to the maximum size limits, which include system contacts.)

Consider the following example of the user and system contact limit check. Unity Connection site A has 40,000 users and 5,000 system contacts, and Unity Connection site B has 50,000 users and 15,000 contacts. If you linked these sites together, the global directory on Unity Connection site A would have 95,000 user and contact objects (40,000 plus 5,000 plus 50,000). However, the global directory on Unity Connection site B would have a total of 105,000 user and contact objects (50,000 plus 15,000 plus 40,000). Attempting to join these two sites would fail because the user and contact limit is exceeded on site B. However, attempting to join Unity Connection site A with a Cisco Unity site that has 50,000 users and 15,000 networking contacts would succeed, because the Unity Connection site global directory of 95,000 user and contact objects would not exceed the 100,000 user and system contact limit.

In addition to checking the limits at the time two sites are joined, each Unity Connection site gateway also checks the user and system contacts limit and the system distribution lists limit each time the Reader service runs. If the limits have been exceeded by five percent or more, the Reader service is no longer able to create new directory objects for remote site objects. It continues to make changes to existing objects or delete them if they are removed from the remote site. This state is therefore known as “delete mode.” In order to get the Reader out of delete mode, you must remove a sufficient quantity of objects of the appropriate type to get to

less than five percent above the limit (for example, remove remote users, local users, or local system contacts if the user and system contact limit has been exceeded, or remove local or remote system distribution lists if the system distribution list limit has been exceeded.)

Messaging

See the following sections for details on how messaging is handled in specific networking situations:

How Messages to System Distribution Lists are Handled Within a Unity Connection Site

Because system distribution lists are replicated among locations in a Unity Connection site, a user can address messages to any system distribution list at any location, as long as the list is reachable in the user search scope.

When a user addresses a message to a system distribution list, the local Unity Connection location parses the distribution list membership. The sending location delivers the message directly to local users on the list. If there are remote Unity Connection users on the list, the sending location delivers the message to each location that homes these remote users. If there are VPIM users on the list, the sending server either delivers the message to the VPIM destination if the VPIM location is homed locally, or passes it to the server on which the location is homed and that server handles forwarding the message to the destination server.

Unity Connection includes the following predefined system distribution lists: All Voicemail Users, Undeliverable Messages, and All Voicemail-Enabled Contacts. Each Unity Connection server in your organization has a distinct version of each of these lists. If you have not changed the names of these lists to be unique, during initial replication each server automatically adds the remote server name to the display name of any remote lists whose names overlap with local list names.

By default, the predefined lists on each Unity Connection location have the same recorded name, and the All Voicemail Users and All Voicemail-Enabled Contacts lists have the same extension at each location (the Undeliverable Messages list by default is not assigned an extension, because users do not typically address messages to this list). When setting up a Unity Connection site, you should consider modifying the recorded name of each All Voicemail Users list and each All Voicemail-Enabled Contacts list; if you do not, users can hear a confusing list of choices when they address messages by name to one of these lists. When users address by extension to a list whose extension overlaps that of another list, they reach the first list that is located when Unity Connection searches the partitions of the user search space in order.



Tip Distribution lists can be nested such that a distribution list contains other lists. You can create one master All Voicemail Users distribution list for a site that contains the All Voicemail Users list of each Unity Connection location.

How Messages to System Distribution Lists are Handled Between Sites

With intersite networking (either between Unity Connection sites or between Cisco Unity and Unity Connection sites), replication of system distribution lists is optional, and when lists are replicated, only the information needed to address a message to the list is replicated. Therefore, when a user addresses a message to a system distribution list that is homed in another site, the message is routed to the remote site gateway (if the remote site is a Unity Connection site) or to the Interoperability Gateway for Microsoft Exchange (if the remote site is a Cisco Unity site). At this point, the system distribution list recipient is handled as though the message originated within the remote site.

It is possible to nest system distribution lists such that a local list contains remote lists as members. For example, you could nest the All Voicemail Users distribution list from one site within the All Voicemail Users

list of the other site. (If you are networking Cisco Unity with Unity Connection, note that Unity Connection users may be automatically created as members of the All Subscribers list or other lists depending on the template that you specify when creating the intersite link.) When you nest a remote list as a member of a local list, you should follow the given practices:

- Avoid nesting local lists as members of the remote list.
- Do not allow the local list to replicate to the remote site.

Cross-Server Sign-In, Transfers, and Live Reply

In order to limit replication traffic and keep the directory size manageable, only a subset of user information is replicated from the home location of the user to other locations. For this reason, only the user home location has information about call transfer settings, greetings, and other specific details for the user. In order for a location to properly handle calls destined for a user on a different location, the location that receives the call must hand off the call to the home location of the user. The purpose of the cross-server features is to make the user experience in a networked environment almost the same as in a single server environment, as shown in [Table 4: Cross-Server Features](#).

Table 4: Cross-Server Features

Feature	Description
Cross-server sign-in	Cross-server sign-in allows administrators to provide users who are homed on different locations with one phone number that they can call to sign in. When calling from outside the organization, users—no matter which is their home server—call the same number and are transferred to the applicable home server to sign in.
Cross-server transfer	Cross-server transfer enables calls from the automated attendant or from a directory handler of one server to be transferred to a user on another server, according to the call transfer and screening settings of the called user.
Cross-server live reply	Cross-server live reply allows users who listen to their messages by phone to reply to a message from a user on another server by calling the user (according to the call transfer and screening settings of the called user).

The cross-server features can be enabled both within a site and across the entire Cisco voicemail organization. For more information and instructions on enabling the cross-server features, see the “[Cross-Server Sign-In, Transfers, and Live Reply](#)” chapter.

Addressing and Dial Plan Considerations

See the following sections for addressing and dial plan considerations in specific networking situations:

Addressing Options for Non-Networked Phone Systems

If your organization has a separate phone system for each location, users at one location dial a complete phone number, not just an extension, when calling someone at another location. When users sign in to send messages

to users on another networked location, the number that they enter when addressing a message by extension depends on whether the numbering plans overlap across locations.

When user extensions on one location overlap with user extensions on another location, you can provide unique extensions for each user by setting up alternate extensions for each user account. For each user, enter a number for the alternate extension that is the same as the full phone number for the user, and make sure that the alternate extension is in a partition that is a member of the search spaces that users at other locations use. Once this has been set up, when users sign in to send messages, the number that they enter when addressing messages is the same number that they use when calling.

When numbering plans do not overlap across networked locations—that is, when user extensions are unique across locations—users can enter an extension when addressing a message to a user who is associated with another location. Optionally, as a convenience for users in this circumstance, you may select to add alternate extensions to each user account, so that users do not need to remember two different numbers—one for calling a user directly, and one for addressing a message. However, if you do not set up alternate extensions, be sure to tell users to use the extension instead of the full phone number when addressing messages to users who are associated with another location.

Note that alternate extensions have other purposes beyond their use in networking, such as handling multiple line appearances on user phones.

Identified User Messaging

When a user calls another user, and the call is forwarded to the greeting of the called user, the ability of Unity Connection to identify that it is a user who is leaving a message is referred to as identified user messaging. Because Unity Connection is able to identify the caller as a user:

- Unity Connection plays the internal greeting of the called user when the caller leaves a message.
- Unity Connection plays the recorded name of the user who left the message when the recipient listens to the message.
- Unity Connection allows the recipient to record a reply.

It is important to note the difference between the following two circumstances:

- A user signs in to Unity Connection, and then records and sends a message. In this circumstance, when the user has signed in, Unity Connection can identify the message as being from the user, regardless of which location the message recipient is homed on. In this case, the phone system is not involved and the recipient phone does not ring. Instead, the message is sent via networking message exchange (using SMTP).
- A user places a phone call to another user, and then leaves a message. This circumstance is the basis of identified user messaging.

As long as identified user messaging is enabled on a Unity Connection location, Unity Connection is able to identify both local and remote users. Note, however, that for identified user messaging to work in both cases, the initial search scope of the call must be set to a search space that locates the correct user based on the calling extension, regardless of whether the caller is a local or remote user.

If a user calls from an extension that is in a partition that is not a member of the search space that was set as the initial search scope for the call, the call is not identified as coming from the user. If the extension of the user overlaps with an extension in another partition that also appears in this search space, the call is identified as coming from the first object that Unity Connection finds when searching the partitions in the order that they appear in the search space.

In situations where numbering plans overlap across locations, it is therefore possible to have a user leave a message that is incorrectly identified as coming from another user with the same extension in a different partition. Because the initial search scope of the call is based on call routing rules, to avoid this situation, use the following configuration guidelines:

- Maintain a separate search space for each location in which the partition containing its users appears first in the search space. (By default, each Unity Connection server uses its own default partition and default search space, which are replicated to other locations when the server is networked.)
- On each location, set up forwarded call routing rules specific to every other location by specifying a routing rule condition that applies only to calls from that location (for example, based on the port or phone system of the incoming call). Configure the rule to set the search scope of the call to the search space in which the partition containing users at the location appears first.

