

Organization Setup, Device Connection Schedules, and Policy Suites

ZENworks® Mobile Management 2.7.x

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Accessing the Dashboard

Accessing the Dashboard

ZENworks Mobile Management dashboard requirements:

- Microsoft Internet Explorer, Firefox, or Safari
- Adobe Flash Player 10.1.0
- Minimum screen resolution: 1024 x 768
- Desktop computer running Windows OS

In your Web browser, enter the server address of the *ZENworks Mobile Management* server, followed by **/dashboard**

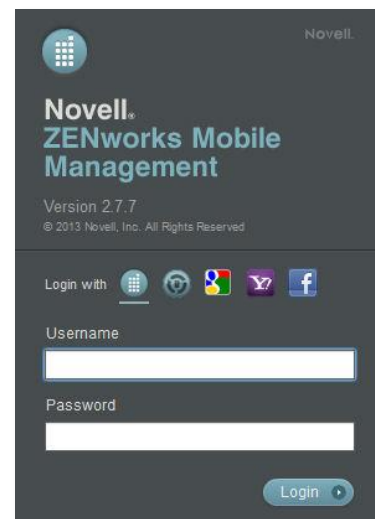
Example: <https://my.ZENworks.server/dashboard>

Standard Login

Log in to the *ZENworks Mobile Management* dashboard using your administrative login credentials in one of the following formats:

- Locally authenticated logins enter:
email address and password
- LDAP authenticated logins enter:
domain\LDAP username and LDAP password

A system administrator can create additional logins to the dashboard with system administrator, organization administrator, or support administrator privileges. See the [System Administration Guide](#) for details.



OpenID Login

Use your OpenID credentials to log in.

1. At the *ZENworks Mobile Management* login screen, select the icon identifying the OpenID provider you use: *ZENworks*, *Google*, *Yahoo!*, or *Facebook*.
2. Enter the **Zone** or **Organization**, an easy to remember name *ZENworks Mobile Management* uses to redirect you to the OpenID provider portal.
3. At the provider site, enter your OpenID credentials.

Note: If this is the first time you have logged in to *ZENworks Mobile Management* with an OpenID or your OpenID information has changed, you will be prompted for a PIN code before entering the *ZENworks Mobile Management* dashboard.

Zone Name and new PIN codes are emailed to you from the *ZENworks Mobile Management* server.



Admin Setup Pin Code

Enter Admin Setup Pin Code

Zone Name

OpenID Identity

OK

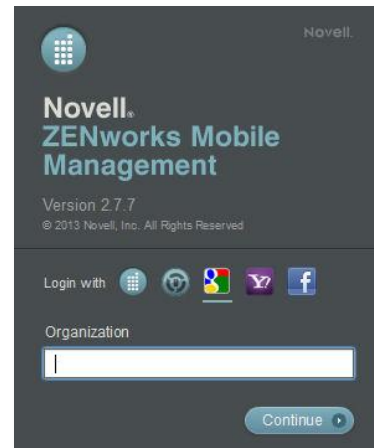


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Login with     

Zone

Continue



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Login with     

Organization

Continue

Configuring the Organization

Organization Setup Wizard

The Organization Setup Wizard is a tool used to create an organization on the *ZENworks Mobile Management* server. The organization might be a company or a distinct group of individuals within a company. A single application of *ZENworks Mobile Management* software can accommodate just one organization or host multiple organizations.

Creating an organization is the first configuration task you must complete after installing the *ZENworks Mobile Management* server software. The wizard automatically appears the first time you log in to the dashboard. You will use the wizard to create any additional organizations as well.

Each organization consists of:

- Its users/devices
- One or more policy suites that enforce functionality settings and security settings for an organization's fleet of mobile devices
- One or more device connection schedules that govern when devices synchronize policy setting updates and send device statistics
- The configuration of the servers with which *ZENworks Mobile Management* interfaces, such as the ActiveSync, LDAP, and SMTP servers

Organization Setup Wizard tasks:

- Enter organization information.
- Define a default ActiveSync Server (if applicable) for the purpose of user authentication and hands-off enrollment.
- Define a default Administrative LDAP Server (optional) for the purpose of leveraging LDAP user information and the LDAP folder and group structure. This information can be used to authenticate users and administrators, control hands-off enrollment, and facilitate user information updates. Administrative LDAP servers can also be used for the purpose of adding users and administrators to the *ZENworks Mobile Management* server via batch imports and importing information into custom column fields.
- Define a default SMTP Server (required) for sending administrative email from the *ZENworks Mobile Management* server.
- Configuring *ZENworks Mobile Management* for administrative **OpenID** login
- Create a default Policy Suite for the organization.
- Create a default Device Connection Schedule for the organization.

The Organization Setup Wizard steps you through each of the above items.

Additional organization configuration steps include creating a welcome letter to be emailed to new users, configuring the Compliance Manager, and adding users.

See the following documentation on:

[The Welcome Letter](#) (in this guide)

[Compliance Manager](#)

[Adding Users and Enrolling Devices](#)

Enter Organization Information and Set Parameters

The Organization Setup Wizard displays automatically when you log in to *ZENworks Mobile Management* for the first time. Before you create the first organization, you must enter your Customer Care Center credentials. You only have to enter these credentials when using the wizard for the first time.

You can also access the wizard via the dashboard.

1. From the *ZENworks Mobile Management* dashboard header, select **System**
2. From the menu panel, select **System Administration > Organizations**.
3. Click the **Add Organization** button.
4. Click **Next** to begin creating a new organization.

Enter the following:

- **Organization Name**
- **Organization Alias** – short name users will enter for OpenID login
- **Use Eval License** or enter a **ZMM License Key**
- **TouchDown License Key**
- **Contact Name**
- **Contact's primary and secondary email address**
- **Contact's primary and secondary phone number**

Organization Setup Wizard

Welcome Organization Servers Policies Schedules Finish

Organization

Organization Name: *

Organization Alias: *

Use Eval License for ZMM:

ZMM License Key: *

TouchDown License Key:

Contact Person's Name: *

Contact's E-mail Address: *

Contact's Secondary E-mail:

Contact's Phone Number: * Ext:

Ex: 9875551234

Contact's Secondary Phone: Ext:

Send Welcome Letter to Users:

Display EULA:

Back Next

- Choose whether you want to send an email **Welcome Letter** to users when they enroll their devices. The letter is associated with the policy suite assigned to the user. Compose or edit the letters via **Organization > Policy Suites**.
- Choose whether to display the **EULA** (*ZENworks Mobile Management* End User License Agreement) when users enroll their *ZENworks Mobile Management* app (recommended).
- Select the **Default Device Liability**. Select **Corporate** when liability for data on device rests with the corporation. Select **Individual** when liability rests with the individual carrying the device. Click **Next**.

Define the Organization's Default ActiveSync Server

ActiveSync Server (optional)

An ActiveSync server is not required, but for systems utilizing the ActiveSync protocol, ZENworks Mobile Management can act as a gateway server. An ActiveSync server allows hands-off enrollment of devices, reducing the amount of manual user configuration. In addition, users are authenticated via their ActiveSync server credentials. ActiveSync Email and PIM traffic are relayed to and from devices by ZENworks Mobile Management.

ActiveSync servers using protocol version 12.0 or greater should be configured to enable *Autodiscover* so that actual server address information can be discovered as users enroll.

Define the following ActiveSync server credentials and settings:

- ActiveSync Server Name -Use SSL
- ActiveSync Server Address -Allow Hands-Off Enrollment
- ActiveSync Server Port -ActiveSync Server Domain (*required for hands-off enrollment*)

The screenshot shows the 'Organization Setup Wizard' window, specifically the 'Servers' step. The wizard has a progress bar at the top with steps: Welcome, Organization, Servers (current), Policies, Schedules, and Finish. On the left, there is a sidebar with options: ActiveSync Server (selected), LDAP Server, SMTP Server, and OpenID. Below the sidebar, there is a checkbox labeled 'I Have An ActiveSync Server' which is checked. The main area contains the following fields and controls:

- ActiveSync Server Name: * [Text Input]
- ActiveSync Server Address: * [Text Input]
- ActiveSync Server Port: * [Text Input]
- Use SSL:
- Allow Hands-Off Enrollment:
- ActiveSync Server Domain: [Text Input] [Add] [Remove]
- Below the domain field is a list box labeled 'Domain' with one empty entry.
- At the bottom right are 'Back' and 'Next' buttons.

Defining ActiveSync Server Credentials for Hands-Off Enrollment

Enabling the *Hands-Off Enrollment* option, when defining an ActiveSync server, allows any user with credentials on the ActiveSync server to enroll against the *ZENworks Mobile Management* server. You must also provide a domain that is configured on this server. Hands-off enrollment requires users to enroll with the domain in one of the following formats: domain\username or user@domain.

If you are planning to link this ActiveSync server with an LDAP server, enabling hands-off enrollment will enable hands-off enrollment for the linked LDAP server as well. In such cases, the LDAP server domain can be used to hands-off enroll in addition to the ActiveSync server domains.

Users are automatically added to the *ZENworks Mobile Management* server when they enroll, as long as their credentials are recognized by the ActiveSync server. *ZENworks Mobile Management* creates the new account by using the ActiveSync user account credentials and the default servers, policy suite, and device connection schedule specified for the organization.

See also [Configuring the Organization for Hands-Off Enrollment](#) and [Managing SMTP, ActiveSync, and Administrative LDAP Servers](#)

Define the Organization's Default LDAP Server

Define a default **Administrative LDAP Server (optional)** for the purpose of leveraging LDAP user information and the LDAP folder and group structure. LDAP server functionality can be used to provision and authenticate users and administrators, update user information, and control who may use hands-off enrollment. In addition, an LDAP server can provide email addresses for the provisioning of users, when linked to an ActiveSync server where users do not have an email address ID (ActiveSync protocols less than v12.0, Data Synchronizer, Exchange 2003). Administrative LDAP servers can also be used to add users to the *ZENworks Mobile Management* server via batch import and import user information into custom column fields.

What you should know about LDAP server configuration

Some LDAP groups innately do not have the necessary attributes needed to be utilized for *ZENworks Mobile Management* LDAP searches and should not be used. An example of this type of LDAP group on an Exchange server is "Domain Users," which does not have a membership attribute.

Likewise, if an attribute value is entered incorrectly in the LDAP Server Settings, functionality will be hindered.

The values entered in the Administrative LDAP Server configuration for the following attributes determine which LDAP groups will facilitate a successful user or administrator enrollment. When groups do not have the necessary attributes, successful enrollment is impossible.

- User Identification Attribute
- Group Membership Attribute
- Group Object Class
- User Object Class

Any group that appears in LDAP server group lists can be imported, however, administrators should familiarize themselves with the LDAP server structure and verify that groups they choose for use with the *ZENworks Mobile Management* server contain the necessary attributes. They should also verify that they enter attribute values correctly in the Administrative LDAP Server configuration.

When inappropriate groups are chosen or an attribute value is entered incorrectly, hands-off enrollment for users and login/account creation for administrators in such a group will fail when the member search is unsuccessful.

Editing Attributes

Once users or groups have been imported for this LDAP server, the following fields cannot be edited:

Base DN, Group Object Class, and User Object Class

Define the LDAP Server Credentials and Settings

- LDAP Server Name
- LDAP Server Address
- LDAP Server Port
- Link with ActiveSync Server
- LDAP Server Domain
- LDAP E-mail Attribute
- LDAP User Firstname Attribute
- LDAP User Lastname Attribute
- LDAP User Identification Attribute
- LDAP Group Membership Attribute
- Use SSL
- Use TLS
- LDAP Username
- LDAP Password
- LDAP Base DN
- LDAP Group Object Class
- LDAP User Object Class

The screenshot shows the 'Organization Setup Wizard' window. The 'Servers' step is active. The left sidebar has 'LDAP Server' selected. The main configuration area includes the following fields and options:

- LDAP Server Name: * (highlighted with a red box)
- LDAP Server Address: *
- LDAP Server Port: *
- Link with ActiveSync Server:
- LDAP Server Domain: *
- LDAP E-mail Attribute: *
- LDAP User Firstname Attribute:
- LDAP User Lastname Attribute:
- LDAP User Identification Attribute: *
- LDAP Group Membership Attribute: *
- Use SSL:
- Use TLS:
- LDAP Username:
- LDAP Password:

Buttons for 'Back' and 'Next' are visible at the bottom right.

Possible Values for LDAP Server Settings

LDAP Server Setting	eDirectory	Active Directory	Lotus Notes
LDAP E-mail Attribute	mail	mail	mail
LDAP User First Name Attribute	givenName	givenName	givenName
LDAP User Last Name Attribute	sn	sn	sn
LDAP User Identification Attribute	uid	sAMAccountName	uid
LDAP Group Membership Attribute	member	member	member
LDAP Group Object Class	groupOfNames	group	groupOfNames
LDAP User Object Class	inetOrgPerson	user or organizationalPerson	person

Add Domains

Domain settings determine the server domain credentials with which users hands-off enroll or administrators log in to the dashboard. If the LDAP server is linked to an ActiveSync server, the domain defined for the ActiveSync will be used for hands-off enrollment and administrator login

If you intend to use the same LDAP server for multiple organizations on the *ZENworks Mobile Management* server, you will need to define a unique domain for each organization. This can be done here via the wizard, or at any time using the LDAP server editor.

The screenshot shows the 'Organization Setup Wizard' window, specifically the 'Servers' step. The wizard has a progress bar at the top with steps: Welcome, Organization, Servers (current), Policies, Schedules, and Finish. On the left is a navigation pane with options: ActiveSync Server, LDAP Server, Add Domain (selected), Import/Prioritize Groups, Hands-Off Enrollment, Periodic Updates, SMTP Server, and OpenID. The main content area is titled 'Linked ActiveSync Server:' and includes the text 'Used for hands-off enrollment and administrator log in'. Below this is a table with one row: 'ActiveSync Domains' and 'AS11'. Below the table is a checkbox question: 'Are additional domains needed for users that you split into multiple MDM organizations?' with a checked box. At the bottom, there is an 'Additional Domains:' section with an empty input field, an 'Add' button, a table with one row: 'Additional Domains' and an empty cell, and a 'Remove' button. At the very bottom are 'Back' and 'Next' buttons.

Import/Prioritize Groups

Groups from the LDAP server are displayed in the left column of this page. Groups that you select to add to the right column will be imported into the *ZENworks Mobile Management* dashboard in the following areas:

- LDAP server editor: *Hands-Off Enrollment Settings*
- LDAP server editor: *Group and Folder Configurations*
- User Grid: *LDAP Folders* view

The groups imported here contain only users. Administrator groups must be imported from the *Organization Administrators* page or *System Administrators* page.

Groups to which users belong are also imported automatically when users are added manually, via a .CSV batch import, or via an LDAP batch import.

Choosing Groups. Administrators should familiarize themselves with the LDAP server structure and verify that groups they choose for use with the *ZENworks Mobile Management* server contain the following necessary attributes: User Identification Attribute, Group Membership Attribute, Group Object Class, and User Object Class. Groups without these attributes should not be used.

Prioritizing Groups. Prioritizing groups need only be done when there are users that belong to multiple groups. The group with the highest priority will determine the user's policy suite, device connection schedule, liability, and corporate resource assignments. . Select a group and use the **Priority** arrows or drag and drop a group to adjust the group's rank.

A user's assignments can be pulled from several sources. The sources are consulted in the following order:

1. Direct assignments applied to the user's record by an administrator (LDAP updates do not affect these assignments.)
2. The group(s) to which the user belongs – the user's highest priority group is consulted first
3. The folder to which the user belongs (by folder hierarchy)
4. Organization defaults

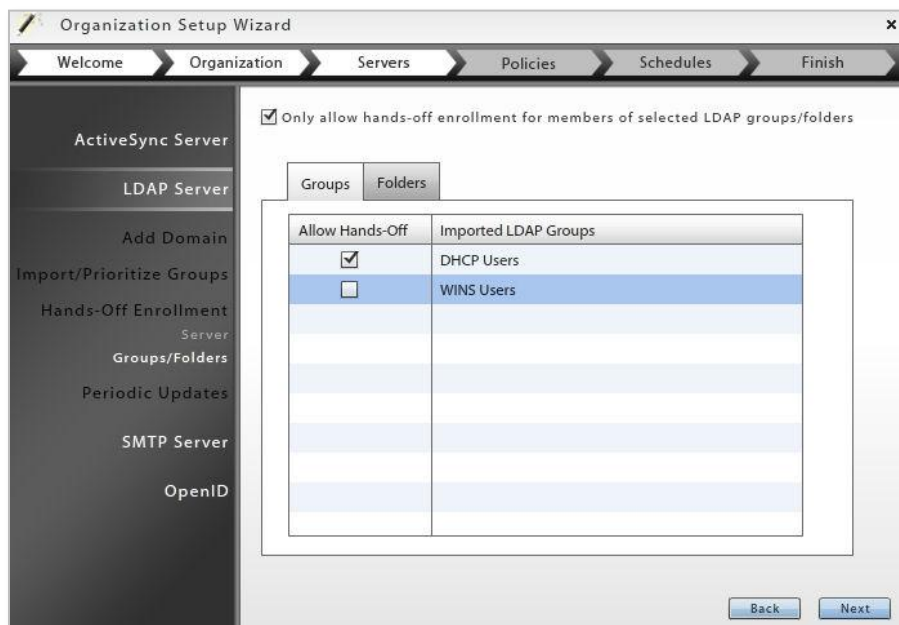
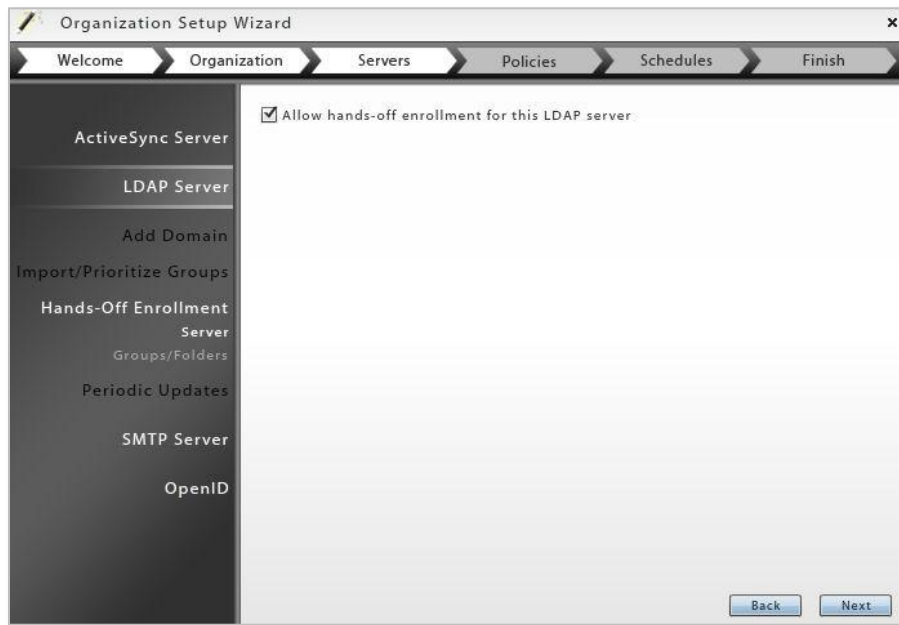
A Prioritization Example. John Doe belongs to the *SalesTeam* group and the *Management* group. The *Management* group has a higher priority, thus any policy suite, device connection schedule, liability, or iOS resource assignments associated with the *Management* group will be assigned to John. If any of these assignments are not defined for the *Management* group, John will get assignments from those defined for the *SalesTeam* group. If an assignment is not defined in either of the groups, it can then be pulled from the LDAP folder to which John belongs, or finally, from the organization defaults. An administrator can also override all these prioritized assignments by manually making direct assignments to John's record.



Hands-Off Enrollment

Configure the LDAP server to allow hands-off enrollment for all LDAP users or for users who are members of selected LDAP groups or folders. If the LDAP server is linked to an ActiveSync server that is configured for hands-off enrollment, hands-off enrollment is enabled for the LDAP server as well.

- Enable the *Allow hands-off enrollment for this LDAP server* option. Click **Next**.
- To limited the ability to hands-off enroll to certain LDAP groups or folders, enable the option, *Only allow hands-off enrollment for members of selected LDAP groups/folders*, then select the groups/folders to which users who may hands-off enroll belong.



Periodic Updates

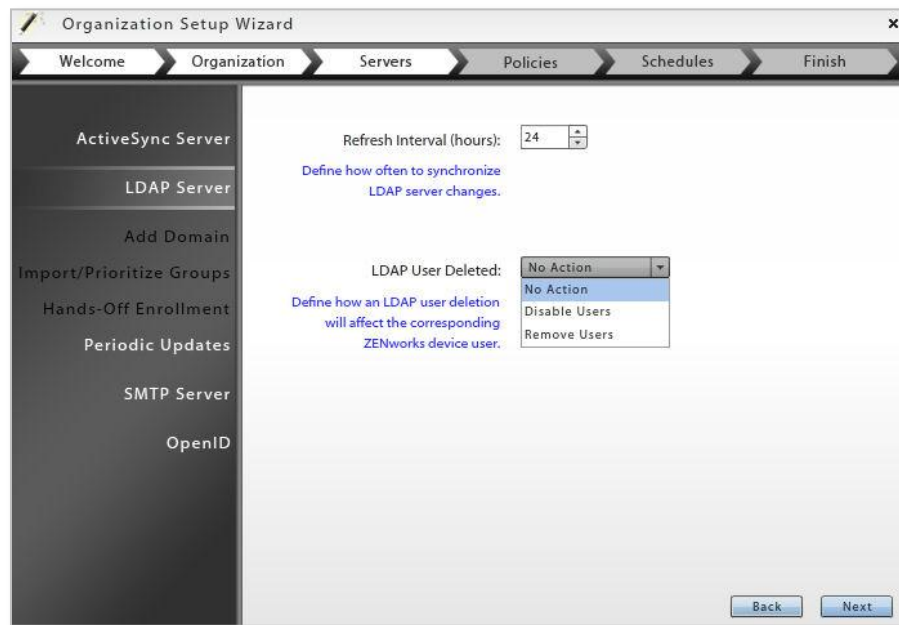
ZENworks Mobile Management regularly accesses the LDAP server to retrieve updates to groups, folders and user information. Users whose folder or group membership changes will be updated with the associated policy suite, connection schedule, and liability assignments of the new group or folder. Similarly, an LDAP authenticated administrator whose group membership has changed will get a role assignment from the new group to which he/she belongs.

Users who have direct policy suite, connection schedule, and liability assignments that override default assignments are not affected by periodic LDAP updates.

- Set the **Refresh Interval** to define how often to synchronize LDAP server changes.
- **LDAP User Deleted** - Define how the *ZENworks Mobile Management* server should handle users that have been deleted on the LDAP server. You can choose to leave the user untouched, disable the user (leave the user on the ZENworks server, but block resources), or remove the user from the ZENworks server.

When no action is taken or the user is disabled, the user retains the settings assigned via the LDAP group/folder.

- Administrators will always be deleted when the group to which they belong is deleted.



Once the LDAP server configuration is completed, this page will display an **Update Now** button which can be used to initiate an update outside the scheduled interval.

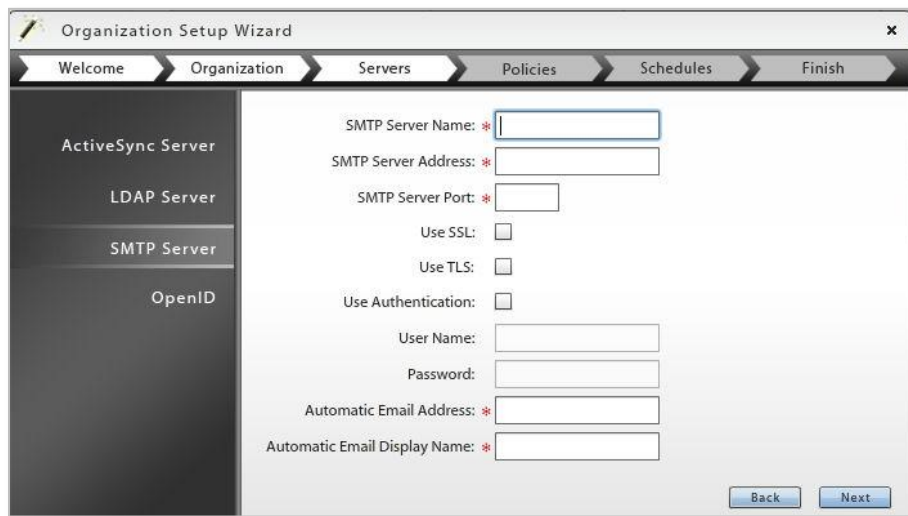
Define the Organization's Default SMTP Server

SMTP Server

ZENworks Mobile Management uses the SMTP server defined here to send administrative email and to send email generated from Group Emailing, Welcome Letters, security command confirmations, etc.

Define the following SMTP server credentials and settings:

- SMTP server name -Use Authentication
- SMTP server address -Username
- SMTP server port -Password
- Use SSL -Automatic Email Address
- Use TLS -Automatic Email Display Name



The screenshot shows the 'Organization Setup Wizard' window. The 'Servers' tab is selected in the top navigation bar. On the left sidebar, 'SMTP Server' is highlighted. The main area contains the following fields and options:

- SMTP Server Name: *
- SMTP Server Address: *
- SMTP Server Port: *
- Use SSL:
- Use TLS:
- Use Authentication:
- User Name:
- Password:
- Automatic Email Address: *
- Automatic Email Display Name: *

At the bottom right, there are 'Back' and 'Next' buttons.

Configure the Organization for OpenID Administrative Login

(optional)

OpenID is an open standard that allows administrators to login and authenticate using an outside source. The organization wizard gives you an opportunity to define the OpenID provider settings for Organization Administrators.

Define the following:

1. Select a **Predefined Provider** – *Facebook, Google, Yahoo!, or ZENworks*
2. If you chose *ZENworks* as the provider, enter the following:
 - **Zone** - enter a friendly name for the Provider URL. Administrators use this at login to access the provider. If there are other organizations on the server or you are defining a provider for both organization and system administrators, this name must be unique.

The *Zone* name is emailed to the administrator along with a PIN code they will use the first time they log in with OpenID credentials.

- **OpenID Provider URL** - enter the URL of the ZENworks Primary Server in the following form: **Error! Hyperlink reference not valid.**
3. At the **OpenID Return URL** field, enter the URL of the server to which the user is returned after successful provider validation. The default is the current *ZENworks Mobile Management* server URL.



The screenshot shows the 'Organization Setup Wizard' window, specifically the 'OpenID' configuration step. The window has a title bar with a close button and a progress bar with steps: Welcome, Organization, Servers, Policies, Schedules, and Finish. The 'OpenID' step is highlighted in the left sidebar. The main area contains the following fields and options:

- Organization Alias: ABC
- Predefined Providers: * ZENworks (dropdown menu)
- Zone: * (empty text box)
- OpenID Provider URL: * (empty text box)
- OpenID Return URL: * https://192.168.2.10 (text box)
- Use Default (button)
- Back (button)
- Next (button)

At the bottom left of the sidebar, there is a checked checkbox labeled 'I have an OpenID provider'.

Create the Organization's Default Policy Suite

You need to create a default policy suite for the organization. Other policy suites can be created later to accommodate different groups of users. The default policy suite is automatically assigned to users added to the system via hands-off enrollment. For additional information, see [Policy Suites](#).

Define a policy name for the organization's default policy suite.

Set corporate policy strength (policy for devices that the company is responsible for).

Set individual policy strength (policy for devices that individuals are responsible for).

- **Low** - No options are restricted on the device. Passwords can be simple.
- **Moderate** - No options are restricted on the device. Passwords are strong and password expiration is enforced.
- **Strict** - Requires an alphanumeric password and encryption on the device and storage card.
- **High** - Browser and camera are disabled. Requires alphanumeric password and encryption on the device and storage card.



To customize the default policy or create additional policies, use the **Policy Suites** option on the *Organization* page.

Create the Organization's Default Device Connection Schedule

You need to create a default device connection schedule for the organization. Other schedules can be created later to accommodate different groups of users. Device connection schedules dictate peak and off-peak times for devices to synchronize. Times can overlap days to cover different work shift situations and special case employees. The default device connection schedule is automatically assigned to users added to the system via hands-off enrollment. For additional information, see [Device Connection Schedules](#).

Define a schedule name for the organization's default schedule.

Set a corporate device connection schedule (schedule for devices that the company is responsible for).

Set an individual device connection schedule (schedule for devices that individuals are responsible for).

Define the following settings:

Corporate

Monday through Sunday peak connect times

Peak Connect Interval

Require Direct Push for Peak Times

Off-peak Connect Interval

Require Direct Push for Off-peak Times

Individual

Monday through Sunday peak connect times

Peak Connect Interval

Require Direct Push for Peak Times

Off-peak Connect Interval

Require Direct Push for Off-peak Times

Regulating the interval at which devices synchronize should be considered carefully to minimize the device battery depletion.

The times you define in the schedule grid designate peak connection times.

Anything that falls outside the peak schedule is off-peak connection time.

Organization Setup Wizard

Welcome Organization Servers Policies Schedules Finish

Assign a Name

Corporate Schedule

Individual Schedule

Times extending into next day are allowed, but the next day's start time must be after the preceding day's end time.

Define Corporate Peak Connection Times

Monday 8:00 AM to 5:00 PM

Tuesday 8:00 AM to 5:00 PM

Wednesday 8:00 AM to 5:00 PM

Thursday 8:00 AM to 5:00 PM

Friday 8:00 AM to 5:00 PM

Saturday 8:00 AM to 5:00 PM

Sunday 8:00 AM to 5:00 PM

Peak Connect Interval: 30 minutes

Off-peak Connect Interval: 60 minutes

Require Direct Push for Peak Times

Require Direct Push for Off-peak Times

Back Next

To edit the default schedule or create additional schedules, use the **Device Connection Schedules** option on the Organization page.

Managing SMTP, ActiveSync, and Administrative LDAP Servers

You can define multiple administrative LDAP or ActiveSync servers for an organization, in addition to the servers you defined through the Organization Wizard.

You can also edit information for the administrative LDAP, ActiveSync, or SMTP servers defined through the Organization Wizard.

Administrators will use the LDAP editor to configure LDAP group and folder provisioning assignments

Server Function in the ZENworks Mobile Management Environment

SMTP Server – *ZENworks Mobile Management* uses this server to send administrative email and to send email generated from group emailing, welcome letters, security command confirmations, etc.

ActiveSync Servers – (Optional) With an ActiveSync server defined, *ZENworks Mobile Management* acts as a gateway server relaying email and PIM traffic to and from devices. Users are authenticated via their ActiveSync server credentials. The server can be configured to allow hands-off enrollment. ActiveSync servers using protocol version 12.0 or greater should be configured to enable Autodiscover.

Administrative LDAP Servers defined here are for the purpose of leveraging LDAP user information and the LDAP folder and group structure. LDAP server functionality can be used to authenticate users and administrators, update user information, and control who may use hands-off enrollment.

Administrative LDAP servers can also be used to add users to the ZENworks Mobile Management server via batch import and import user information into custom column fields. In addition, an LDAP server can provide email addresses for the provisioning of users, when linked to an ActiveSync server where users do not have an email address ID (ActiveSync protocols less than 12.0, Data Synchronizer, Exchange 2003).

See the following for further information:

- In this guide, [Configuring an Administrative LDAP Server](#)
- [Adding Users, Enrolling Devices Guide: Adding Users via LDAP, Custom Columns](#)
- [System Administration Guide: Creating Administrator Logins](#)

Note: LDAP servers defined under *iOS Corporate Resources* are for the purpose of configuring LDAP settings to make available to iOS device users. When users synchronize the settings, the device is automatically enabled for accessing corporate directory information.

Defining Additional Administrative LDAP or ActiveSync Servers

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. From the *User Account Settings* menu, select **ActiveSync Servers** or **Administrative LDAP Servers**.
3. Click the **Add ActiveSync Server** or **Add LDAP Server** option.
4. Enter the server credentials and configure the server, then click **Save Changes**.

LDAP TIP: To limit the number of unnecessary folders/groups pulled from the LDAP server, enter the LDAP Base DN so that it includes only the required users/groups. This prevents unnecessary users/groups (like computers and computer groups) from being selected.

Editing Server Information

To edit credentials for an existing Administrative LDAP, ActiveSync, or SMTP server:

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. From the *User Account Settings* menu, select **ActiveSync Servers** or **Administrative LDAP Servers**, or under *Organization Control*, select **SMTP Server**.
3. For LDAP or ActiveSync servers, select the server you want to edit from the left panel.
4. Edit the information and click **Save Changes**.

Server Connection Testing

Use the **Test Now** button on the server editing screens to test the connection from *ZENworks Mobile Management* to an Administrative LDAP, ActiveSync, or SMTP server after you have initially added it or if you suspect there is a connection problem.

Server	Tests:	Credentials entered for the test
Administrative LDAP Server	-Connectivity between the <i>ZENworks Mobile Management</i> server and the Administrative LDAP server; -Verifies that required LDAP attributes contain values	None – uses the credentials on file
ActiveSync Server	-Connectivity between the <i>ZENworks Mobile Management</i> server and the ActiveSync server; -Accessibility by an authorized user; -Autodiscover	A set of active user credentials in the format required by the ActiveSync server.
SMTP Server	-Connectivity between the <i>ZENworks Mobile Management</i> server and the SMTP server; -Authentication if <i>Use Authentication</i> is enabled; -Email delivery	None Optional email delivery test: Provide a test email address, subject, and message body

Configuring an Administrative LDAP Server

When the LDAP server is fully configured, users associated with an LDAP folder or group can be provisioned automatically when added to *ZENworks Mobile Management* manually, via a batch import, or through hands-off enrollment. This is done by associating each LDAP folder or group with a Policy Suite, Device Connection Schedule, and Liability status. Users are automatically assigned the settings associated with the group or folder to which they belong when they are added.

In addition, changes made to folders and groups will automatically update user information via periodic queries of the LDAP server.

Upgrade Note: If you use an LDAP server configured prior to *ZENworks Mobile Management* version 2.7.0, you will not have the same functionality, unless you update its configuration settings.

An Administrative LDAP Server might have been added through the *Organization Setup* wizard or through the *Add LDAP Server* wizard. However, adding provisioning assignments to LDAP groups and folders must be done through the LDAP server editor using the *Group and Folder Configuration* option.

To edit an Administrative LDAP server:

1. Select **Organization** from the *ZENworks Mobile Management* dashboard header.
2. From the *User Account Settings* menu, select **Administrative LDAP Servers**.
3. Select the server you want to edit from the left panel and expand its menu. You can edit:
 - Server Settings – see [Define the LDAP Server Credentials and Settings](#)
 - Domain Settings – see [Add Domains](#)
 - Hands-Off Enrollment Settings – see [Hands-Off Enrollment](#)
 - Group and Folder Configurations – see below, [Group and Folder Configurations](#)
 - Periodic Updates Settings – see [Periodic Updates](#)



Group and Folder Configurations

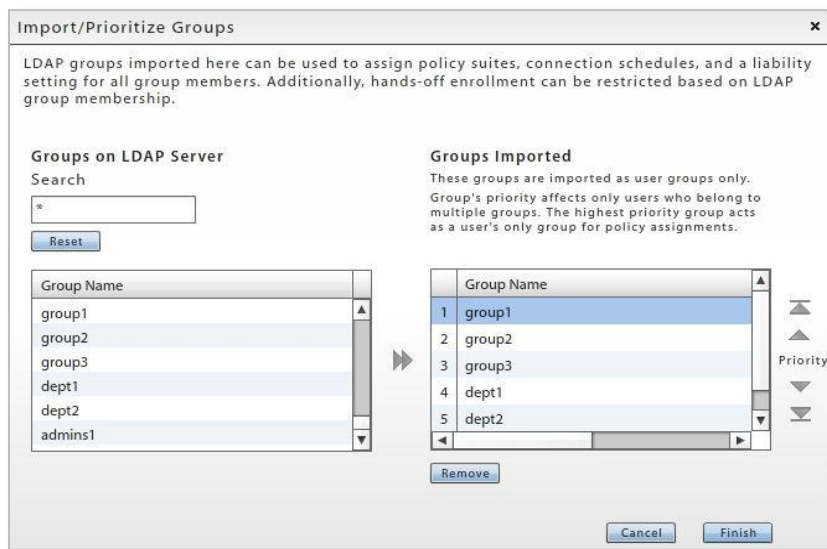
Import LDAP groups into the grid, using the **Import/Prioritize Groups** button.

Any group in the grid:

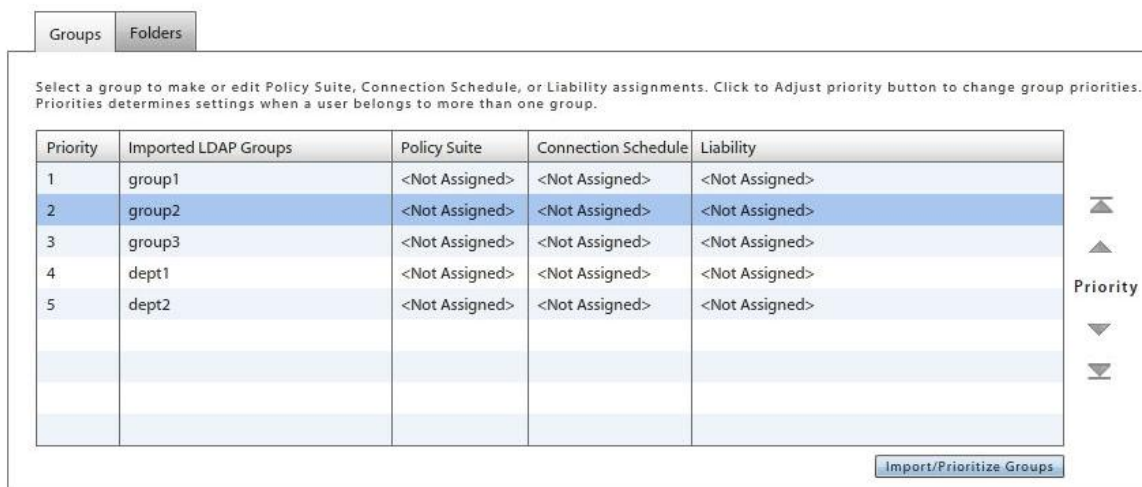
- can be configured with Policy Suite, Device Connection Schedule, and Liability assignments
- can be prioritized
- is also added to the Hands-Off Enrollment Settings grid

Import Groups. Select a group from the left panel and click the double arrow to designate it as a group to import. You can prioritize the groups here or from the grid. Click **Finish** to return to the grid.

Administrators should familiarize themselves with the LDAP server structure and verify that groups they choose for use with the *ZENworks Mobile Management* server contain the following necessary attributes: User Identification Attribute, Group Membership Attribute, Group Object Class, and User Object Class. Groups without these attributes should not be used.



Prioritize Groups. Prioritizing groups is only necessary when there are users that belong to more than one group. If users only belong to one group, priority does not affect user assignments. See also [Import/Prioritize Groups](#). Select a group and use the **Priority** arrows or drag and drop a group to adjust the group's rank.



Configure the group with setting assignments. Click the *Groups* or *Folders* tab and browse through the list to locate the group or folder you want to configure. Select a group or folder. Select Policy Suite, Connection Schedule, and Liability assignments. The Blacklist or Whitelist associated with the Policy Suite will display as well. Click *Save Changes*.

Tip: When you make changes to the assignments, you may want to initiate a synchronization with the LDAP server as well, if the scheduled *Periodic Update* will not occur for several hours. This way you will coordinate the changes you have made on the *ZENworks Mobile Management* server with any changes that may have occurred on the LDAP server. Initiate an update by using the **Update Now** button on the *Periodic Update Settings* page.

These assignments can also be made directly from the user grid. See the [Organization Administration Guide](#).

The screenshot displays the configuration interface for a group named "Users". The main configuration area includes the following settings:

- Group Name: Users
- Policy Enforcement Type: Schedule-Based
- Policy Schedule: * General Staff
- Policy Suite during Schedule: * Policy A
- Policy Suite outside Schedule: * Policy B
- Connection Schedule: default
- Liability: Unknown, Corporate, Individual
- Reset All button

An inset window titled "Restricted Apps: Policy A" is open, showing the following settings:

	Corporate	Individual
Blacklists		
Default	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> YES
Whitelists		
Default	<input type="checkbox"/> NO	<input type="checkbox"/> NO

How a user's settings are determined. A user's individual settings are determined by consulting the following sources in this order:

- any direct assignments
- any assignments made to the user's highest priority group (lower priority groups are consulted if there is no associated assignment)
- any assignments made to the user's folder (the folder closest to the user in the folder hierarchy is consulted first)
- organization defaults if none of these have associated assignments

Configuring the Organization for Hands-Off Enrollment

Configuring an organization for Hands-Off enrollment enables users to self-enroll. When the user enrolls a device, an account is created and auto-provisioned on the *ZENworks Mobile Management* server using preset organization default assignments or assignments associated with LDAP groups or folders. This frees the administrator from the task of adding users either manually or by batch import.

Hands-Off enrollment can be configured two ways:

- Enable the *Hands-Off Enrollment* option when defining an ActiveSync server so that users with credentials on the ActiveSync server can self-enroll against the ZENworks Mobile Management server. When the user enrolls a device, an account is created and auto-provisioned using the organization default settings.
- Enable the *Hands-Off Enrollment* option when defining an LDAP server so that users with credentials on the LDAP server can self-enroll against the *ZENworks Mobile Management* server. You can allow hands-off enrollment for all users associated with the LDAP server or you can allow it only for selected LDAP folder/group members. When the user enrolls a device, an account is created and auto-provisioned using assignments associated with LDAP groups/folders to which users belong.
- When an ActiveSync server and LDAP server are linked, configuring one server for hands-off enrollment will automatically configure the other server for hands-off enrollment.

Setting expirations for users who in an organization configured for hands-off enrollment is counterproductive, since users will always be able to re-enroll the device app.

The Hands-Off enrollment defaults, as they appear on the *Organization Settings* page, are shown below:

Hands-Off Enrollment Defaults

Policy Enforcement Type: Standard Schedule-Based

Policy Suite: * default

Device Connection Schedule: * default

LDAP Server: None

Liability: Corporate Individual

Hands-Off Enrollment Defaults

Policy Enforcement Type: Standard Schedule-Based

Policy Schedule: * General Staff

Policy Suite during Schedule: * default

Policy Suite outside Schedule: * Policy B

Device Connection Schedule: * default

LDAP Server: None

Liability: Corporate Individual

Requirements for Novell GroupWise DataSync and Other ActiveSync 2.5 Mail Servers

Systems where iOS users are interfacing with a Novell GroupWise DataSync server must use DataSync Update 4 (Mobility 1.2.4) to fully utilize the hands-off enrollment functionality. Users need to enroll using their entire email address in lieu of their username if they are enrolling by the hands-off method. Similar processes must be followed to use hands-off enrollment when users interface with Exchange 2003 or any other mail server running ActiveSync 2.5 protocol. A user's username and the string of characters to the left of the @ sign in their email address must be the same.

If the ActiveSync server is linked to a fully configured LDAP server, however, users who exist on the LDAP server need not enroll using the full email address, as the LDAP server is queried for this information.

Enabling Hands-Off Enrollment for Users Associated with an ActiveSync Server

Enabling the *Hands-Off Enrollment* option, when defining an ActiveSync server, allows any user with credentials on the ActiveSync server to enroll against the *ZENworks Mobile Management* server. Hands-off enrollment will be set automatically for an ActiveSync server if it is set for a linked LDAP server.

You must also provide a domain that is configured on this server. Hands-off enrollment requires users to enroll with the domain in one of the following formats: **domain**\username or user@**domain**. If an LDAP server is linked to this ActiveSync server, the LDAP server's domain can also be used for logging in.

Users are automatically added to the *ZENworks Mobile Management* server, as long as their credentials are recognized by the ActiveSync server. *ZENworks Mobile Management* creates the new account by using the ActiveSync user account credentials and the default servers, policy suite, and device connection schedule specified as defaults for the organization.

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. From the User Account Settings menu, select **ActiveSync Servers**.
3. From the left panel, select an existing ActiveSync server or create a new ActiveSync server by choosing **Add ActiveSync Server**.
4. Select the box labeled **Allow Hands-Off Enrollment** and make sure you have specified at least one **Domain** for the server. You can enter multiple domains if necessary for your configuration.
5. Click **Finish** or **Save Changes**.

The screenshot shows a dialog box titled "Add Organization ActiveSync Server". The main content area contains the following fields and options:

- ActiveSync Server Name: * ex2007
- ActiveSync Server Address: * 123.456.7.89
- ActiveSync Server Port: * 80
- Use SSL:
- Allow Hands-Off Enrollment:
- Autodiscover:
- ActiveSync Server Domain:

At the bottom right, there are three buttons: "Add", "Remove", and "Finish".

Enabling Hands-Off Enrollment for Users Associated with an LDAP Server

Enabling the *Hands-Off Enrollment* option, when defining an LDAP server, allows users with credentials on the LDAP server to enroll against the *ZENworks Mobile Management* server. Hands-off enrollment will be set automatically for an LDAP server if it is set for a linked ActiveSync server.

Users are automatically added to the *ZENworks Mobile Management* server, as long as their credentials are recognized by the LDAP server or an ActiveSync server associated with the LDAP server. *ZENworks Mobile Management* creates the new account using the user's LDAP account credentials and the policy suite, device connection schedule, and liability specified for the LDAP folder or group to which the user belongs.

You can allow hands-off enrollment for all users associated with the LDAP server or you can allow it only for selected LDAP folder/group members.

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. From the *User Account Settings* menu, select **Administrative LDAP Servers**.
3. From the left panel, select an existing LDAP server or create a new LDAP server by choosing **Add LDAP Server**.
4. Select the **Hands-Off Enrollment Settings** option. You can allow hands-off enrollment for all users associated with the LDAP server or limit it to selected LDAP folders/groups members.

The screenshot shows the 'Hands-Off Enrollment Settings' page for an LDAP server. The page title is 'Hands-Off Enrollment Settings' and the breadcrumb is 'Admin LDAP Servers > EX 07 > Hands-Off Enrollment Settings'. The left sidebar shows 'Organization Management' with a tree view containing 'EX 07' (Server Settings, Domain Settings, Hands-Off Enrollment Settings, Group and Folder Configurations, Periodic Update Settings) and 'GW 2012'. The main content area has a 'Save Changes' button at the top right. Below the title, there is explanatory text: 'These settings determine whether Hands-off Enrollment with the ZENworks server is permitted for members of the LDAP Server. Permissions can be granted for all LDAP members of specific folders and groups'. Two checkboxes are present: 'Allow hands-off enrollment for this LDAP server' (checked) and 'Only allow hands-off enrollment for members of selected LDAP groups/folders' (checked). Below these is a 'Groups' tab and a 'Folders' tab. A text box explains: 'A user hands-off enroll if he/she is a member of any group, folder, or sub-folder under a directory that is enabled for hands-off enrollment.' Below this is a table with columns 'Allow Hands-Off' and 'Imported LDAP Groups'. The table lists several groups with checkboxes: 'timSysAdminGroup' (unchecked), 'DHCP Users' (checked), 'WINS Users' (checked), 'admins' (checked), 'timGroup23Edited' (unchecked), 'Domain Users' (checked), 'Domain Guests' (checked), and 'timNewGroupMonday1128' (unchecked). An 'Import/Prioritize Groups' button is at the bottom of the table.

Allow Hands-Off	Imported LDAP Groups
<input type="checkbox"/>	timSysAdminGroup
<input checked="" type="checkbox"/>	DHCP Users
<input checked="" type="checkbox"/>	WINS Users
<input checked="" type="checkbox"/>	admins
<input type="checkbox"/>	timGroup23Edited
<input checked="" type="checkbox"/>	Domain Users
<input checked="" type="checkbox"/>	Domain Guests
<input type="checkbox"/>	timNewGroupMonday1128

Policy Suites

A policy suite is a set of rules and permissions that enforce an organization's security and usage standards for mobile devices in the enterprise. The policy suite is a key element of the *ZENworks Mobile Management* system. It enables administrators to manage users operating on a variety of device platforms and to enforce policies across those device platforms as consistently as possible.

ZENworks Mobile Management currently supports mail/PIM servers operating with ActiveSync protocol versions 2.5, 12.0, 12.1, 14.0, or 14.1. A handful of the *ZENworks Mobile Management* policies, however, are not supported on systems with less than version 12.0. This information, descriptions of individual policy settings, and functionality of settings across device platforms can be found in the [Device Platform Functionality](#) tables. Information about the policies is also available via the tool tips in the dashboard user interface.

The Policy Wizard guides you through setup of an organization's policy suites, which includes settings for both corporate and individual users/devices. The Wizard allows an administrator to quickly create a new policy suite either by copying an existing policy suite or by choosing from a number of pre-defined policy suite templates which reflect four levels of security strength. The administrator can start with one of these templates and use the Policy Suite Editor to customize the settings associated with any of the policy rules.

Multiple policy suites can be created to accommodate different groups of users. Each user/device can be assigned the policy that best suits their role. See the [Default Policy Settings](#) document for a comprehensive list of the policy suite rules and their default settings.

ActiveSync Policies. For enterprises utilizing the ActiveSync protocol, *ZENworks Mobile Management* acts as a gateway server. *ZENworks Mobile Management* intercepts policy updates sent from the ActiveSync server and instead enforces ActiveSync policy settings that have been defined in *ZENworks Mobile Management*. When an ActiveSync server is not part of the enterprise, *ZENworks Mobile Management* itself acts as an ActiveSync server and enforces ActiveSync policies.

Welcome Letter. You can also draft a Welcome Letter that is emailed to users associated with a particular policy suite. In the organization setup, you can enable a setting that issues the letter automatically when the user is added to the system. You can leave this setting disabled and issue the letter manually for each user from the user's profile.

Policy rules are categorized into the following groups:

- Audit Tracking
- Device Control
- File Share Permission
- iOS Devices
- Mobile Apps Permissions
- Security Settings
- S/MIME Settings
- TouchDown Settings

Creating a New Policy

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**
2. Select the **Policy Suites** icon.
3. Click the **Create New Policy** option.
4. Choose a method for creating a policy suite:
 - Create the initial policy suite by using sliders to determine its general policy strength (low, recommended, strict, high security).
 - Create the initial policy suite by copying the settings of an existing policy suite.
5. Use the Policy Suite Editor to customize the new policy.



Policy Suite Editor

To edit an existing policy suite:

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. Select the **Policy Suites** icon.
3. From the menu panel, select the policy you want to change.
4. Edit the Welcome Letter. Enter information that you want to email to new users when they are added to the *ZENworks Mobile Management* system. This can include a welcome to the system, information about policies, links to resources, etc.
 - To have the letter sent automatically when users are added, enable the setting in *Organization Settings*. From the dashboard, select **System > Organization** and select the **Send Welcome Letter to Users** option.
 - To issue the letter as needed for each user, leave the *Organization Settings* option disabled. Then, select **Users** and highlight a user. Click the **Send Welcome Letter** option in the *User Detail* panel.
5. Select the category you want to edit.
6. Edit the settings and click **Save Changes**.

The screenshot displays the Policy Suite Editor interface. At the top, there are controls for 'Create New Policy Suite', 'Allow All', 'Deny All', and 'Save Changes'. The left sidebar shows a navigation menu with categories like 'CAS', 'Audit Tracking', 'Device Control', 'File Share Permissions', 'iOS Devices', 'Mobile Apps Permissions', 'Resource Control', 'Restricted Apps Permissions', 'Security Settings' (highlighted), 'SMIME Settings', 'TouchDown', and 'Welcome Letter'. The main content area is titled 'Policy Suites > CAS > Security Settings'. It features a 'Select visible device platforms' dropdown and a '<< Back to Selection' button. The 'Security Settings' section is expanded to show 'Password' settings. These settings are organized into columns for 'CORPORATE' and 'INDIVIDUAL', and rows for various security rules. Each rule has a 'YES' or 'NO' toggle and a grid of device platform icons (Android, iOS, S60, web OS, etc.) to indicate where the setting applies. For example, 'Require password' is set to 'YES' for both Corporate and Individual, and applies to all listed platforms. 'Minimum password length' is set to 8 for both, and 'Require alphanumeric password' is set to 'NO' for both.

Setting	Corporate	Individual	Android	iOS	S60	web OS
Require password	YES	YES	Yes	Yes	Yes	Yes
Enable password recovery	YES	YES	Yes	Yes	Yes	Yes
Allow simple password	YES	YES	Yes	Yes	Yes	Yes
Require minimum password length	YES	YES	Yes	Yes	Yes	Yes
Minimum password length	8	8	Yes	Yes	Yes	Yes
Require alphanumeric password	NO	NO	Yes	Yes	Yes	Yes
Minimum number of complex characters	2	2	Yes	Yes	Yes	Yes
Require device password expiration	NO	NO	Yes	Yes	Yes	Yes
Password expiration in days	30	30	Yes	Yes	Yes	Yes
Require device password history	NO	NO	Yes	Yes	Yes	Yes
Number of passwords stored	7	7	Yes	Yes	Yes	Yes
Enable password echo	NO	NO	Yes	Yes	Yes	Yes
Begin password echo after attempts	5	5	Yes	Yes	Yes	Yes

See the [Default Policy Settings](#) document for a comprehensive list of the policy suite rules and their default settings.

Descriptions of individual policy settings and functionality of the settings across device platforms can be found in the [Device Platform Comparison](#) tables.

Components of the Policy Suite

The Welcome Letter

For each policy you create, you can compose a new user Welcome letter that can communicate information to users when they are added to the *ZENworks Mobile Management* system. You might include information about:

- Links to resources, such as the device app downloads, user documentation, and the user self-administration portal
- Details of policies that may change device functionality
- New features that make devices more secure

Welcome Letters can be configured to email automatically or you can manually email them as needed.

To configure the organization so that *Welcome Letters* are automatically emailed to every user that is added to the *ZENworks Mobile Management* server, select **System > Organization** and enable the **Send Welcome Letter to Users** option.

To manually send the letter to an individual user, select **Users** and highlight a user. Click the **Send Welcome Letter** option in the *User Panel*.

To edit the letter, select **Organization > Policy Suites**, highlight a policy, and select the **Welcome Letter** option in the left panel.

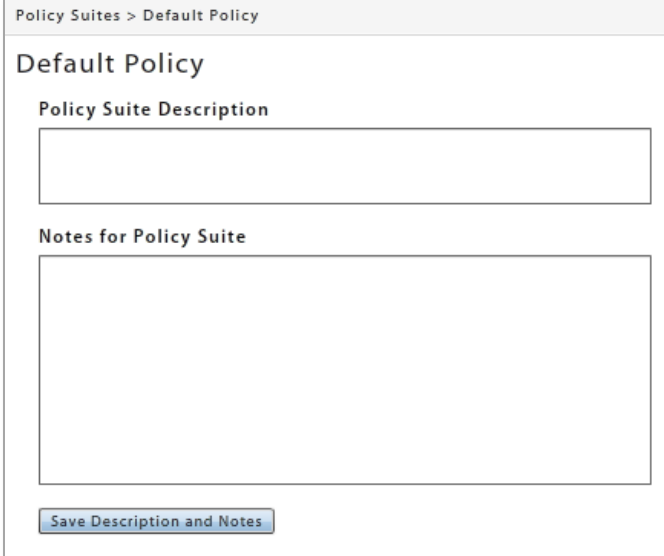
The screenshot shows a web interface for configuring a Welcome Letter. The breadcrumb path is "Policy Suites > Default Policy > Welcome Letter". The title is "Welcome Letter". Below the title is a descriptive sentence: "This is the welcome letter that will be sent to a new user belonging to this policy suite." The form contains four sections: "Sender Name" with the value "ZENworks Mobile Management Admin", "Sender Address" with "admin@novell.com", "Subject" with "Welcome to ZENworks Mobile Ma", and "Body" with a text area containing: "Welcome to the ZENworks Mobile Management service. All links to device applications and documentation for setting up your device can be found at www.novell.com/documentation/zenworksmobile2. Device applications can be found under the 'Downloads' section, 'Device Application Downloads.' Device documentation can be found under the 'Documentation' section, 'ZENworks Mobile Management Device Apps.'"

See also, [Adding Users and Enrolling Devices](#): *Welcome New Users to ZENworks Mobile Management*.

Policy Suite Description and Notes

Use the **Description** field to provide more details about the purpose of the policy.

Use the **Notes** field for keeping a record of changes made to a policy.



Policy Suites > Default Policy

Default Policy

Policy Suite Description

Notes for Policy Suite

Save Description and Notes

Policy Settings by Category

Descriptions of individual policy settings and functionality of the settings across device platforms can be found in the [Device Platform Comparison](#) tables.

See the [Default Policy Settings](#) document for a comprehensive list of the policy suite rules and their default settings.

Audit Tracking

This option provides rules that enable tracking of information about device usage (phone and text message logs, file archive) and location.

Examples: Phone and text message logs, GPS tracking statistics

Recording the location of devices can increase battery consumption. Administrators can adjust GPS location accuracy to offset this.

There are six accuracy levels with 1 being the least accurate and consuming the least battery power and 6 being the most accurate and consuming the most battery power. The function of these levels varies based on the device platform, as described in the table below. The accuracy level can be customized by choosing the positioning method and distance. Distance denotes the distance traveled before the device synchronizes a new location.

Symbian S60,3 devices do not support location accuracy; however, users can choose the positioning technology on the device by selecting **Settings > General > Positioning > Positioning Methods**. Choices are Bluetooth GPS, Assisted GPS, Integrated GPS, or Network Based (Cell Towers).

Windows Mobile devices partially support location accuracy. The positioning method can be set, but distance requirements are not supported.

Android devices differ across models in how often they detect location. *ZENworks Mobile Management* regulates this by updating at least once per device connection interval with a minimum of ten minutes.

Location Accuracy Functionality by Device Platform

Level	Android	BlackBerry (w/ <i>NotifySync</i>)	iOS Devices	Windows Mobile 6
1	Cell towers only; approximate location, low power, 1000 meters distance	Cell towers only; low power, no set accuracy	Cell towers only (Levels 1, 2, 3 are the same)	Cell towers only (Levels 1-4 are the same)
2	Cell towers only; approximate location, low power, 800 meters distance	Cell towers and GPS; no set accuracy	Cell towers only	Cell towers only
3	Cell towers only; Approximate location, low power, 600 meters distance	Cell towers and GPS; 100 meters	Cell towers only	Cell towers only
4	GPS; approximate location, low power, 400 meters distance	Cell towers and GPS; 50 meters	GPS; 500 meters to 1 kilometer	Cell towers only
5	GPS; fine location, high power, 200 meter distance <i>Note:</i> Device constantly checks, even in situations where it is not moving.	Cell towers and GPS; 25 meters	GPS; 100 meters	GPS (Levels 5-6 are the same)
6	GPS; fine location, high power, 1 meter distance	GPS only; 5 meters	GPS; best to 5 meters Device checks location only when it is moving.	GPS
Custom	Location source: Use GPS or Use Cellular Triangulation . Distance in meters: (1-1000)	Location source: Use GPS or Use Cellular Triangulation . Distance in meters: (1-1000)	Location source: Use GPS or Use Cellular Triangulation . Distance in meters: (1-1000)	Location source: Use GPS or Use Cellular Triangulation . WM devices support the positioning technology chosen, but do not support distance requirements.

Device Control

This option allows you to use different rules to control devices:

- Allow or block the use of device features
- Allow, block, or limit types of email
- Limit the amount of email or calendar items synchronized
- Allow or block the enrollment of multiple devices per user

Examples: Allow Camera. Allow HTML formatted email, Maximum calendar age for synchronization

File Share Permissions

This option provides permissions for whether or not users can access the File Share list. Permissions are granted per folder or subfolder.

iOS Devices

This option provides settings and controls specifically for iOS devices.

These rules govern iOS device features and applications, Safari browser settings, ratings controls, configuration profile controls, and iCloud usage.

This category also includes policies that enable you to record the installed applications and manage mobile apps on iOS devices.

Mobile App Permissions

This option provides permissions for whether or not users can access the Mobile App list. Permissions are granted per application.

Permissions for Android and iOS mobile apps include a **Force Push** option. When it is enabled, Force Push automatically prompts the users to install the app on all devices associated with the policy.

Permissions for iOS mobile apps are listed by region in the following order: Apps for users in the United States, Apps for users in countries outside the U.S. (in alphabetical order), Apps for users in any region.

Resource Control

The options in the *Resource Control* category have been grouped together to give the administrator a convenient way to disable resources for users associated with a schedule-based Policy Suite that is in effect outside scheduled hours. Administrators can restrict ActiveSync connections, File Share, and Mobile Apps. See also Control Resources Users Access.

Restricted Apps Permissions

Permissions for whether or not blacklist or whitelist filters govern what applications can be installed on devices accessing the server.

Blacklists If an application installed on a device matches one of the blacklist filter strings, the user's access to email, shared files, app lists, or other organization resources can be blocked. Restrictions are specified through the Compliance Manager.

The list of blacklist filter strings must be enabled in *Restricted Apps Permissions* in order for the restrictions to take effect.

Whitelists If an application installed on a device does not match one of the whitelist filter strings, the user's access to email, shared files, app lists, or other organization resources can be blocked. Restrictions are specified through the Compliance Manager.

The list of whitelist filter strings must be enabled in *Restricted Apps Permissions* in order for the restrictions to take effect. When whitelist permissions are enabled, blacklist permissions are automatically disabled.

Security Settings

This option provides rules that enforce compliance with a company's policies for securing mobile devices. Examples: Require Password, Require Encryption, Wipe Device on failed unlock attempts

All Security Settings are dependent on whether you have enabled Require Password.

SMIME Settings

Provides Secure/Multipurpose Internet Mail Extensions settings to add an additional layer of encryption for email messages.

TouchDown Settings

This option provides settings and controls specifically for Android or iOS devices that use the TouchDown application (v7.3.00052 or greater). These rules govern Android and iOS functionality and user access to many TouchDown settings that are configurable on the device. Subcategories include: Installation, General, Signature, Widgets, Phone Book, User Configurable Settings, and Suppressions.

About User Configurable Settings

Users can configure these policies according to preference. Administrators choose the setting for initial device configuration. Changes to these settings do affect existing TouchDown users.

About Suppressions

Suppressions are a specific category of policies that can actually remove the configurable TouchDown setting from the device view. They control whether users have access to settings that configure email, calendar, contacts, tasks, security, synchronization, and device capabilities.

An enabled suppression policy gives the user control of the setting. The policy is enabled when set to YES.



A disabled suppression removes the setting from user devices.

If the disabled suppression has a control setting, the administrator can configure it.

An example of a suppression with a control setting is:



When a disabled suppression does not have a control setting, the setting is locked as it was previously set on the device.

An example of a suppression without a control setting is:

Allow email alerts configuration



If you plan to disable suppression policies that do not have a control setting, thereby removing it from a device, the setting on the device must be configured accurately before the suppression is imposed.

Here are best practices for deploying devices when suppression policies without control settings are disabled:

- Create two policy suites – one that does not disable suppressions policies and the policy suite you will ultimately assign to the user.
- Initially, assign to the user the policy that does not disable suppression policies.
- Install and register the TouchDown and *ZENworks Mobile Management* apps on devices.
- Configure the TouchDown settings on the device in accordance with your company policies.
- Change the policy assignment for the user from the dashboard (assign the policy with the suppressions disabled) and allow the changes to synchronize.
- Issue the device to the user.


Tips on Customizing and Using Policy Suites

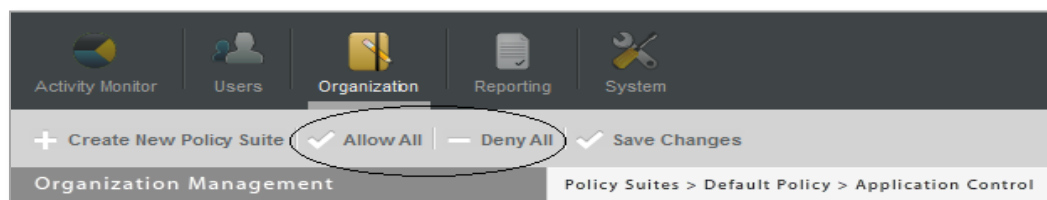
- The Policy Suite configuration pages can display the device platforms that support the policy. Select device platforms to view from the drop-down list.



- The symbols displayed next to a policy represent the device platforms that support the policy. Hover over a symbol to view help text.

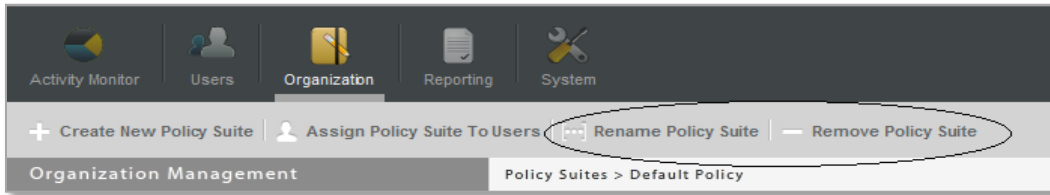


- Click the  symbol to access the Device Platform Functionality table from the dashboard. This table gives descriptions of each policy and details the functionality across each device platform. The document is also available via the ZENworks Mobile Management documentation portal. [Device Platform Functionality](#)
- You can use **Allow All** and **Deny All** buttons in a category to easily allow or deny all settings for corporate and individual devices simultaneously.

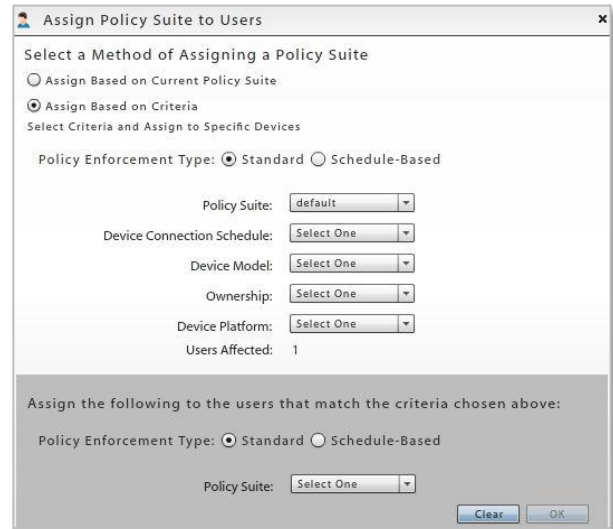
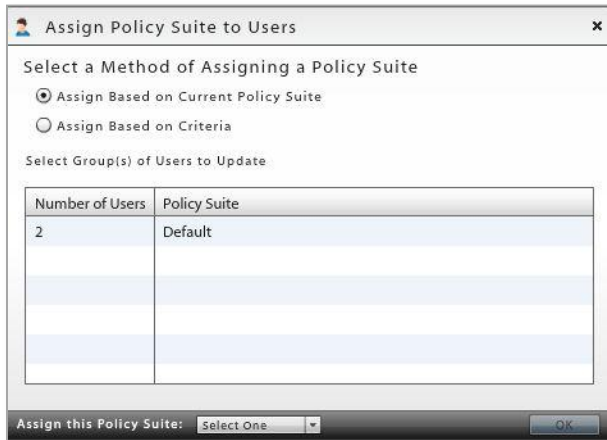
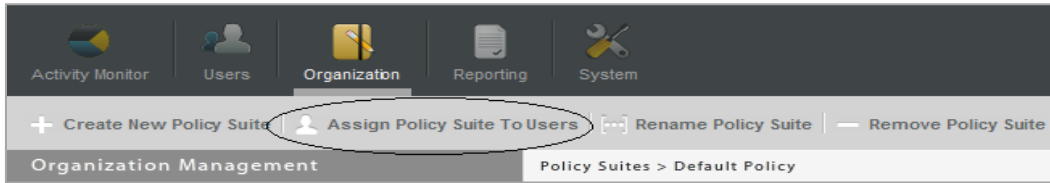


- Some policies determine the options available for other policies. For example, Allow Browser in the Device Control section must be enabled if you plan to enable Allow Safari for iOS devices.
- You must specify a policy suite when you add a user. Users added by import methods all have the same policy suite. Users added to the system via hands-off enrollment are assigned the default policy suite.
- You can change an individual user's policy suite in his or her *User Profile*.

- You can rename or remove a Policy Suite.



- You can select users by criteria and assign or change the group's policy suite by using the **Assign Policy Suite To Users** option. Selection criteria includes policy suite, device connection schedule, device model, ownership, device platform, and custom columns.



Device Connection Schedules

The device connection schedule determines the frequency at which devices connect with the *ZENworks Mobile Management* server. The schedule controls when the devices send statistics and can also control when the server sends updates (if the direct push setting is disabled). Regulating the interval at which devices connect should be considered carefully to minimize the device battery depletion.

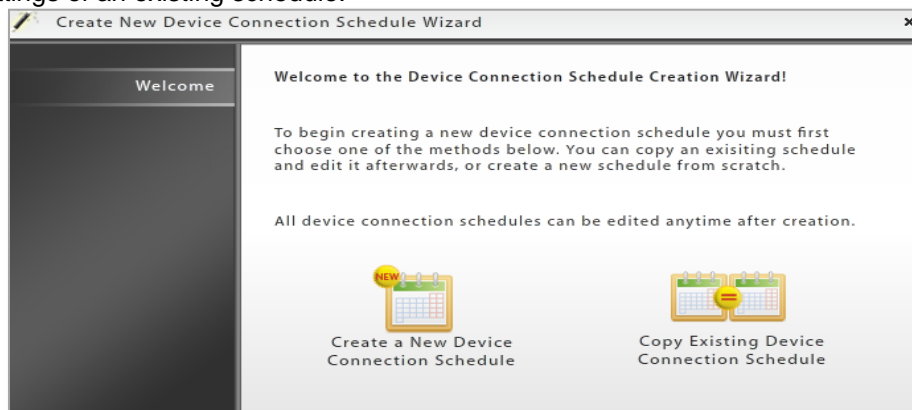
Schedules defined here do not affect ActiveSync synchronization of email/PIM. The device connection schedule controls only the synchronization frequency of *ZENworks Mobile Management* data, such as device statistics, location, and audit tracking data.

Creating Device Connection Schedules

- A wizard guides you through setting up of an organization's connection schedules.
- Multiple schedules can exist and individual user, LDAP groups/folders, and organizations can be assigned the appropriate schedule.
- The wizard allows an administrator to quickly create a new device connection schedule or copy an existing schedule. If a schedule is copied, the administrator can edit the settings associated with the new schedule.
- Each schedule can be customized for corporate and individual users.

Create a Device Connection Schedule

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. Select the **Device Connection Schedules** icon under the heading *User Account Settings*.
3. Click the **Create New Device Connection Schedule** option.
4. Choose a method for creating a connection schedule:
 - **Create a New Device Connection Schedule** - Create the initial schedule using system defaults.
 - **Copy Existing Device Connection Schedule** - Create the initial policy suite by copying the settings of an existing schedule.



5. Enter a name for the new schedule.
6. Define the following settings for Corporate and Individual devices:
 - Monday through Sunday Peak Connect Times
 - Peak Connect Interval
 - Require Direct Push for Peak Times
 - Off-peak Connect Interval
 - Require Direct Push for Off-peak Times

Peak Connection Times - The times you define in the schedule grid designate *Peak Connection Times*. Anything that falls outside the peak schedule is off-peak connection time.

Peak and Off-peak Connect Intervals - A schedule's *Peak and Off-peak Connect Intervals* define the frequency at which devices connect with the *ZENworks Mobile Management* server. Peak time are periods during which device usage is consistently higher than average. Conversely, off-peak times are periods during which device usage is consistently lower than average. Consider the following:

- To accommodate the higher traffic, set peak connect intervals at lower values (initiating more frequent connections) than off-peak connect intervals.
- Lower connect intervals increase the efficiency of the *ZENworks Mobile Management* Compliance Manager, since devices report device statistics more frequently allowing the server to detect non-compliance sooner.
- Avoid setting intervals so low that they significantly affect device battery depletion.

Require Direct Push - The *Require Direct Push* setting determines whether updates from the server, such as security commands, are synchronized immediately or during the next scheduled connection. If this setting is enabled, commands from the server sync to the device as soon as they are issued. Synchronizations from the device still occur according to the scheduled connect interval and are not affected by this setting.

When user devices are in Direct Push mode, remote Wipe commands sent from the server sync immediately, regardless of whether or not *Require Direct Push* is enabled.

Editing Device Connection Schedules

To edit an existing device connection schedule:

1. From the *ZENworks Mobile Management* dashboard header, select **Organization**.
2. Select the **Device Connection Schedules** icon.
3. From the menu panel, select the schedule you want to change.
4. Select the **Corporate** or **Individual** schedule.
5. Edit the settings and click **Save Changes**.

Corporate Peak Device Connection Schedule

Device Connection Schedules Govern ZENworks App Connections Only

Monday	<input checked="" type="checkbox"/>	8:00 AM	to	5:00 PM
Tuesday	<input checked="" type="checkbox"/>	8:00 AM	to	5:00 PM
Wednesday	<input checked="" type="checkbox"/>	8:00 AM	to	5:00 PM
Thursday	<input checked="" type="checkbox"/>	8:00 AM	to	5:00 PM
Friday	<input checked="" type="checkbox"/>	8:00 AM	to	5:00 PM
Saturday	<input type="checkbox"/>	12:00 AM	to	12:00 AM
Sunday	<input type="checkbox"/>	12:00 AM	to	12:00 AM

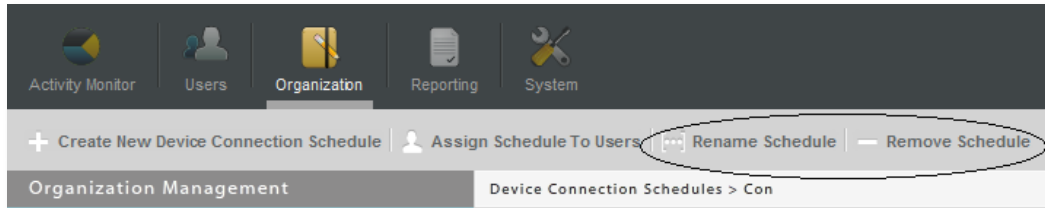
Peak Connect Interval: Minutes Off-peak Connect Interval: Minutes

Require Direct Push for Peak Times Require Direct Push for Off-peak Times

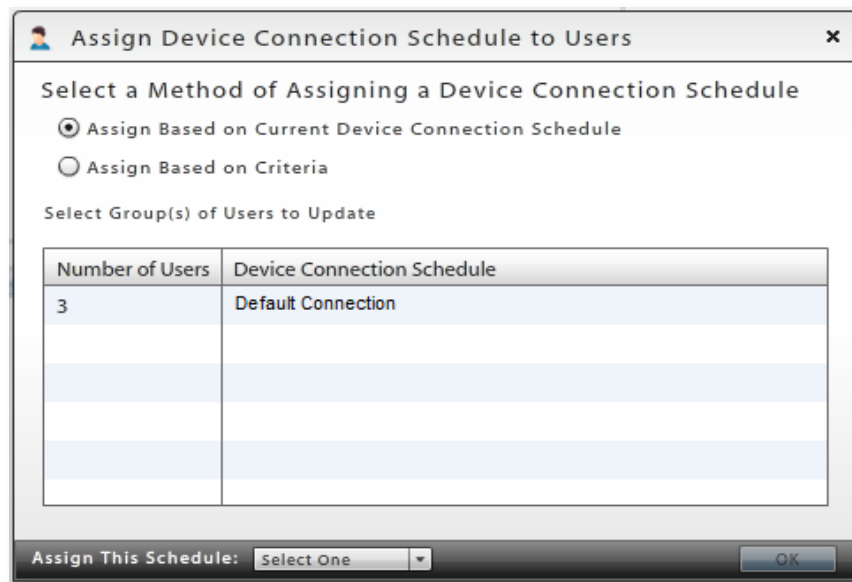
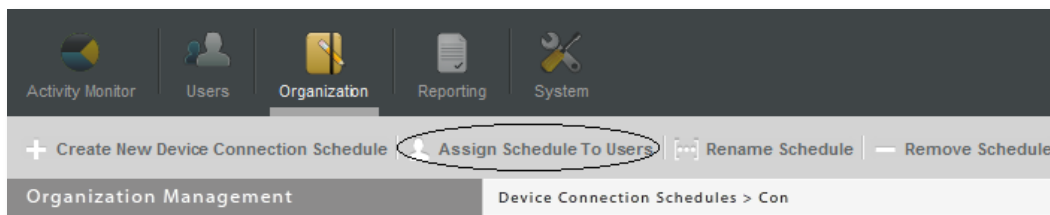
Note: Times extending into next day are allowed, but the next day's start time must be after the preceding day's end time.

Tips on Using Device Connection Schedules

- You must specify a device connection schedule when you add a user. Users added by import methods all have the same device connection schedule. Users added to the system via hands-off enrollment are assigned the default device connection schedule.
- You can rename or remove a device connection schedule.



- You can change an individual user's device connection schedule in his or her *User Profile*.
- You can select users by criteria and assign or change the group's device connection schedule by using the **Assign Schedule To Users** option.



Assigning a Device Connection Schedule

Policy Schedules

Policy Schedules are used for schedule-based assignment of policies. The schedule defines the days and times during which users are working.

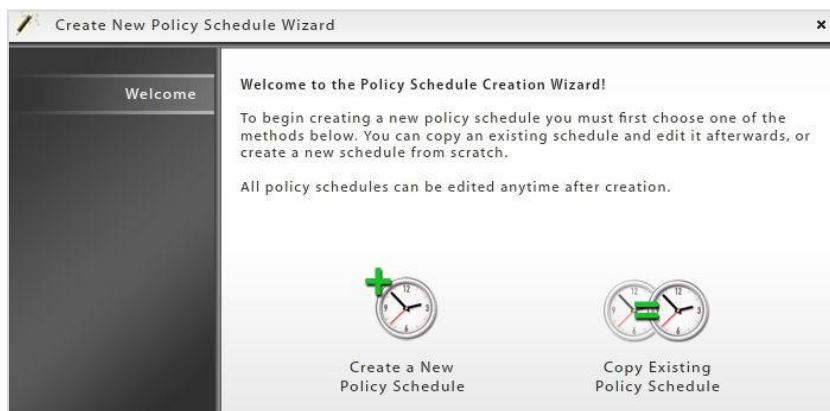
Two Policy Suites can be assigned to an individual user, all users in a LDAP group/folder, or all users in the organization. One Policy Suite governs user devices during scheduled hours, the other governs user devices outside scheduled hours. The schedule determines when each Policy Suite is in effect.

Creating Policy Schedules

- A Wizard guides you through setup of an organization's connection schedule(s).
- The *Wizard* allows an administrator to quickly create a new policy schedule or copy an existing schedule. If a schedule is copied, the administrator can edit the settings associated with the new schedule.
- Multiple schedules can exist and individual users, LDAP groups/folders, and organizations can be assigned the appropriate schedule.

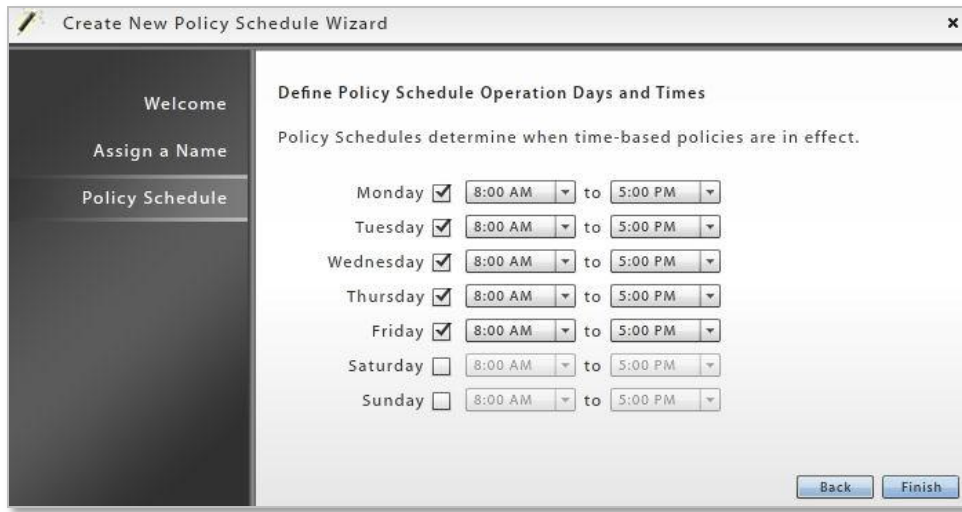
Create a Policy Schedule

1. From the *ZENworks Mobile Management* dashboard header, select **Organization Management**
2. Select the **Policy Schedules** icon under the heading *User Account Settings*.
3. Click the **Create New Policy Schedule** option.
4. Choose a method for creating a connection schedule:
 - **Create a New Policy Schedule** - Create the initial schedule using system defaults.
 - **Copy Existing Policy Schedule** - Create the initial policy suite by copying the settings of an existing schedule.



5. Enter a name for the new schedule.

- Define the hours during which users are working, Monday through Sunday.



Assign a Policy Schedule

Assign the Policy Schedule to:

- an individual user (*User Profile*)
- all users in a LDAP group/folder (*Administrative LDAP Servers*)
- all users in the organization (*Organization Settings*)

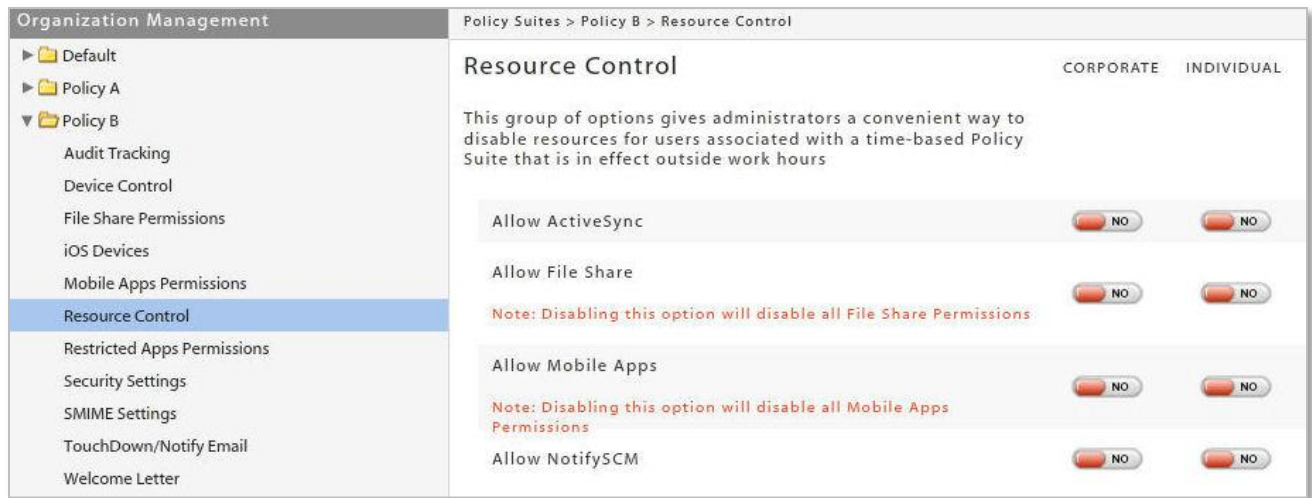
You will also select a Policy Suite to be used during scheduled hours and one to be used outside scheduled hours.

Control Resources Users Access Outside Scheduled Hours

Policy Suites that are designated to take affect outside scheduled hours can be configured to restrict users' access to corporate resources. Use the **Resource Control** category in the Policy Suite to restrict resources.

The options in the *Resource Control* category have been grouped together to give the administrator a convenient way to disable resources for users associated with a schedule-based Policy Suite that is in effect outside scheduled hours. Administrators can restrict ActiveSync connections, File Share, and Mobile Apps.

1. From the *ZENworks Mobile Management* dashboard header, select **Organization Management**
2. Select the **Policy Suites** option under the heading *User Account Settings*.
3. Choose a policy suite and select the **Resource Control** category.



4. Disable the resources you want to restrict and click **Save Changes**.