



BlackBerry AtHoc Manage Users

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Manage users

This document describes how to manage users in the BlackBerry[®] AtHoc[®] system. Users can be the end users that receive alerts, dependents of users, operators with varying degrees of privileges, or administrators that configure BlackBerry AtHoc settings.

The Users screen lists all users associated with an organization and provides you with tools to manage the status and details for those users.

For information about operator roles and permissions, see the *BlackBerry AtHoc Operator Roles and Permissions* guide or the *BlackBerry AtHoc Operator Roles and Permissions Reference*.

Quick Action Guides

View all Quick Action Guides

- Manage operator roles and permissions
- Create a user
- Create a static distribution list
- Create a dynamic distribution list

Create a user

You must be an End Users Manager to create users.

If the "Enterprise Features" setting is enabled in the General Settings of an enterprise organization, the BlackBerry AtHoc system enforces user uniqueness in the enterprise organization and its suborganizations. Users created in the enterprise organization or in any of its suborganizations must have a unique username and Mapping ID.

If the "Enterprise Features" setting is enabled in the General Settings of a super enterprise organization, the BlackBerry AtHoc system enforces user uniqueness in the super enterprise, sub enterprise organizations, and their suborganizations. Users created in the super enterprise organization, or in any of its sub enterprises or suborganizations must have a unique username and Mapping ID.

- 1. In the navigation bar, click **Users** > **Users**.
- 2. On the Users screen, click New.

Note: Fields marked with an asterisk (*) on the New User screen are required.

- 3. On the New User screen, in the Basic Information section, enter the following details about the user:
 - **Username**: The name the user is assigned by the system. Usernames are frequently imported from external systems and cannot be edited later.
 - First Name and Last Name
 - **Display Name**: The name used to refer to the user within the system, such as bsmith or Jack Jones. This field can be edited later by the end user.
 - · Organizational Hierarchy: If the organizational hierarchy is available:
 - a. Click Select.
 - **b.** On the **Select the Organizational Position** window, navigate to the specific organization the user belongs to.
 - c. Click Apply.
 - Any custom fields added by administrators, including details such as CPR certification status, Emergency Community membership, or special skills.
 - Enter a work location and (if applicable) temporary work location.

4. In the **Numbers** section, enter the work, mobile, text messaging, pager, and any other numbers that can be used to contact the user.

Note: International numbers and numbers with extensions are supported.

BlackBerry AtHoc runs a validation check to make sure the number is valid. If it is not, an "Invalid Phone Number" error appears under the text field. You cannot save the new user information until you correct or remove the number.

For pagers, only devices that are enabled for the organization appear in the list.

- 5. In the Online Addresses section, enter work and home email addresses.
- 6. In the Physical Addresses section, enter work and home addresses.
- 7. In the Distribution List Membership section, select the distribution lists the user is a member of.

Note: Required memberships are provided by default and cannot be deleted. If you do not have management permissions for a group, the group is read-only.

- 8. In the Advanced Information section, which is configurable for each system, complete all required fields and any optional fields to include in the account details for the user.
- 9. Provide a password that meets the displayed rules, if required.

10.Click Save.

The details of the new user appear in summary form on the screen. You can return to the Users screen or grant the user operator permissions. For details, see "Grant operator permissions to a user" in the *BlackBerry AtHoc Operator Roles and Permissions* guide. For quick steps, see *Manage operator roles and permissions*.

Enable users

You can enable a user if the following conditions are true:

- You are an End Users Manager in the organization.
- You are an End Users Manager for the user. In some cases, the user may be outside of your user base and appear as read-only.

In an enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can enable users for any suborganization. In a super enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can enable users in any sub enterprise organization and their suborganizations.

- 1. In the navigation bar, click Users > Users.
- 2. If the Status column is not visible in the user list, click Add in the header row to add a column.
- 3. Click the \checkmark in the new column heading, and then select Status.
- 4. Select the check boxes beside the users whose status you want to change.
- 5. Click More Actions > Enable.

The users are enabled and the Status column updates for each of the affected users.

If a sponsor has dependents, the dependents are also enabled.

If you have selected users that you do not have permissions to enable, a warning message appears.

Disable users

Disabling a user temporarily removes them from alert target lists or groups but keeps them in the system so that they can be re-enabled again. Users are commonly disabled when they take a leave or temporarily join another organization.

You can disable a user if the following conditions are true:

- You must be an End Users Manager for the organization.
- The user is in your user base. Your user base may be restricted to exclude the user and the user is hidden from view.

In an enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can disable users for any suborganization. In a super enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can disable users in any sub enterprise organization and their suborganizations.

It may be more efficient to identify the users that you want to disable based on a specific user attribute or set of attributes they have in common. For instructions, see Automatically disable users based on attributes.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, select the check boxes beside the users whose status you want to change from Enabled to Disabled.
- 3. Click More Actions > Disable.
- 4. On the confirmation window, click **Disable**.

The users are disabled.

If any selected users have dependents, they are also disabled.

If you have selected users that you do not have permission to disable, or who have the **Do Not Disable User** option enabled on their user profile, a warning message appears.

Note: If a user is logged in to the system when they are disabled, on their next page navigation they are logged out and redirected to the login screen with the following message: "You do not have the required Operator Permissions to access this page. Contact your administrator."

Delete users

You can delete a user if the following conditions are true:

- You are an End Users Manager for the organization.
- The user is in your user base. Your user base may be restricted to exclude the user and the user is hidden from view.

Operators cannot delete their own user accounts. The Operator Audit Trail captures the names of deleted users and the operator who performed the deletion.

In an enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can delete users for any suborganization. In a super enterprise organization, End Users Managers, Organization Administrators and Enterprise Administrators can delete users in any sub enterprise organization and their suborganizations.

Note: You can identify the users you want to delete based on a specific user attribute or set of common attributes. For more information, see Automatically delete users based on attributes.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, select the check boxes beside the users you want to delete.
- 3. Click More Actions > Delete.
- 4. On the confirmation window, click **Delete** to permanently remove the users from the system.

The screen refreshes and the Users list no longer displays the users.

If the sponsor or sponsors have dependents, those dependents are also deleted.

If you have selected users that you do not have permission to delete, or who have the **Do Not Delete User** option enabled on their user profile, a warning message appears.

When a user is deleted, all personally identifiable information about the user is deleted from the BlackBerry AtHoc system. In historic user tracking reports, the deleted user's details are replaced with DEL_[GUID].

If a user is logged in to the system when they are deleted, on their next page navigation they are logged out and redirected to the login screen with the following message: "You do not have the required Operator Permissions to access this page. Contact your administrator."

Recover deleted users

You must be an End Users Manager, Organization Administrator, or Enterprise Administrator for the organization to recover deleted users.

You can recover deleted users for up to 7 days after deletion. The recovery period for deleted users is dependent on the Purge Deleted Users setting. For example, if the Purge Deleted Users setting is set to 1 day, deleted users can only be recovered for up to 1 day. For more information, see Purge deleted users.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, click v beside the Enabled Users drop-down list and select Deleted Users.
- 3. Select the check boxes beside the users you want to recover.
- 4. Click More Actions > Recover.
- 5. On the confirmation window, click Recover to restore the users to the system.

If there is a username conflict that prevents the restoration of a username, then renaming needs to be done manually after the recovery.

Purge deleted users

When users are deleted, they no longer appear in the BlackBerry AtHoc management system, but data for those users is still held in the database until purged. Deleted users are purged once a day by default. Purging deleted users ensures that the user base is kept current and database performance is maximized. Do not disable purging deleted users unless your organization has a data retention requirement. You can change the purge interval.

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click Disable and Delete Users.
- 3. On the Disable and Delete Users screen, scroll down to the Purge Deleted Users section.
- 4. Select the Purge deleted users after option.
- 5. From the Purge deleted users after list, select the purge interval.
- 6. Click Save.

Important: After a purge occurs, it cannot be undone.

Edit user details

You can edit the details of an individual user in the BlackBerry AtHoc system. To make a global change to all users, see Make mass changes to user details.

Note: You must be an End Users Manager to edit user details.

1. In the navigation bar, click Users > Users.

- **2.** On the **Users** screen, click \square beside the name of a user.
- 3. On the user details page, make changes to any of the user fields in the following sections:
 - Basic Information
 - Numbers
 - Email Addresses
 - Physical Addresses. Displays the time the user's location was last updated. To view the user's location on a map, click ⑤.
 - Advanced Information
 - Last Known Location. Populates with location information from a check in, check out, alert response, report, emergency, or tracking from the BlackBerry AtHoc mobile app. Click (5) to view the user's last known location on a map. Click Clear to remove the last known location. The last known location cannot be edited from the BlackBerry AtHoc management system or Self Service.
 - Login and Location. Do not delete or disable settings. User accounts with these options enabled cannot be deleted or disabled from the user profile page, CSV user import, API, or through the automatic disable or delete user settings.
 - Distribution List Membership
 - BlackBerry AtHoc Apps: See Delete unused mobile devices from a user profile.
 - Organization subscriptions (if enabled): This section appears when the organization subscription feature is enabled and organizations are configured for subscription. This section displays the user's subscribed organizations, the start and end dates, and the assigner for each subscription.
 - Any user attributes defined by administrators

Note: System-generated user details such as Desktop Software Session Information, Mobile Device Location, and most of the User Activity information cannot be edited.

4. Click Save.

Delete unused mobile devices from a user profile

To prevent reaching the user device limit, the operator can remove unused mobile devices from a users profile page in the BlackBerry AtHoc management system.

- 1. In the navigation bar, click Users > Users.
- **2.** On the **Users** screen, click \square beside the name of the user.
- 3. On the users profile page, in the BlackBerry AtHoc Apps section, beside Mobile App, click Active (x).
- 4. On the User Mobile Devices window, click 🗙 beside the mobile device you want to delete.
- 5. On the confirmation window, click **Delete**.

The mobile device is removed from the user's profile and can no longer be targeted in alerts and events.

Enable users to receive alerts in their preferred language

Enable the Bilingual Alert feature in the BlackBerry AtHoc management system to allow end users to select a preferred language to receive alerts in.

Bilingual alerts can be delivered using the preferred language templates for email and desktop notifications. When a bilingual alert is sent, the selected second language uses the corresponding email and desktop local templates. This ensures that the alert is fully displayed in the user's preferred language. If no delivery template exists for the selected language, the system defaults to the organization locale. Bilingual alerts do not support custom delivery templates.

- 1. Log in to the BlackBerry AtHoc management system as a System Administrator.
- 2. Click 🔛.

- 3. On the Settings page, in the Setup section, click Feature Enablement.
- 4. On the Feature Enablement page, ensure that IsBilingualAlertSupported is set to True.
- 5. Click 🔛.
- 6. On the Settings page, click General Settings.
- 7. On the **General Settings** page, in the **Customization** section, select to enable delivery locales from the **Delivery Locales** pull-down menu.
- 8. Click Save.
- 9. On the Settings page, click User Attributes > Preferred Language.
- **10.**On the **Preferred Language** page, in the **Page Layout** section, select the section in the User details pages to display the Preferred Language attribute in.

11.Click Save.

12.Optionally, to enable users to select their preferred language from the BlackBerry AtHoc mobile app:

- a) Click 🔛.
- b) On the Settings page, in the Devices section, click Mobile App.
- c) On the Mobile App page, in the Features section, select the My Profile Page option.
- d) Select the Show Preferred language selection to support bilingual alerts option.
- e) Click Save.

Prioritize personal devices

Operators can set the priority of alert delivery by device type for end users. When enabled, the device delivery preference feature prevents end uses from receiving the same alert on multiple devices. When device delivery preference is enabled, and user preferred is selected as the device delivery preference in an alert or event template, end users receive alerts on their enabled devices in the order specified in the user's profile.

Before you begin:

- Device delivery preference must be enabled for the organization.
- At least one personal device must be enabled in the organization.
- The user must have at least one enabled device with an address in their profile.
- You must be an Enterprise Administrator, Organization Administrator, End Users Manager, Alert Manager, or Advanced Alert Manager to prioritize personal devices for a user.
- 1. Log in to the BlackBerry AtHoc management system.
- 2. Click Users > Users.
- 3. On the Users page, select the user you want to update.
- 4. On the user details page, click More Actions > Prioritize Personal Devices.
- 5. On the **Prioritize Personal Devices** window, click and drag to reorder the device. Personal devices are prioritized according to their position in the list, with the highest priority device appearing on top.
- 6. Click Save.

Import users from a CSV file

When you import user details into BlackBerry AtHoc using a CSV file, the values that exist in the CSV file overwrite any existing values in the database. If the file contains blank fields, the current values in the database are replaced by empty values. Ensure that all required fields are populated before you upload the file.

To import users from a file, the file must be correctly formatted. If you do not know how to format the file, see Format a user import file.

To import operators from a file, see "Importing and exporting operators" in the *BlackBerry AtHoc Operator Roles and Permissions* guide.

If duplicate users (identified by username or mapping ID) are found in the CSV file, they are not imported and one of the following error messages is displayed:

[Username]: <username> already exists in the payload

[Mapping ID]:<mapping id> already exists in the payload

The remaining unique users in the CSV file are imported.

If a username contains a space or one of the following characters, the user is not imported and an error message is displayed:

[]:;|=,+*?<>

If the username contains leading or trailing spaces, the spaces are ignored and trimmed during the import process. After the spaces are trimmed, the user is imported.

You can import users to a super enterprise organization, enterprise organization, or suborganization.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, click More Actions > Import > Users.
- **3.** Optionally, click **Download a template CSV file** to download a blank CSV file to use as a template for your import user file. Save the file to your computer and fill in the appropriate user information.

Using the template ensures that all of the mandatory attribute columns are included in the import file.

- 4. Click Browse.
- 5. Navigate to the location of the import user file on your computer.
- 6. Open the file to enter or modify the user data.

Note: Microsoft Excel hides some characters from view. If you edit the file in Microsoft Excel, it might format your entries with extra characters. The incorrect format might cause the import operation to fail. If you are using anything other than a text editor to modify the CSV file, open the file in a text editor such as Microsoft Notepad, review the syntax for problems, then save the modified file as a .txt file. Edit the file name to change the extension from .txt to CSV. This method preserves the formatting in the text file.

- 7. Ensure that columns with multiple values have the correct format to import correctly.
 - The entire entry must be enclosed within double-quotes. This rule is true even if a multi-select picklist has only a single entry.
 - Use a comma to separate each value. Do not include spaces before or after the comma.
 - Example: Two column names, separated by a comma (no space before or after the comma). POSITIONS is a multi-select picklist column: USERNAME, POSITIONS
 - Example: A multi-select picklist attribute column with multiple entries: Cadiz, "ESH Team Tech Supv, FMT Coordinator, SITE 300, Exercise Call Out, Field Monitoring Team, Coordinator DOC"
 - Example: A multi-select picklist attribute with a single entry: East, "LEDO"
 - An entry can have a space within it. For example: Field Monitoring Team

- 8. Verify that columns with multiple values have the correct format to import correctly.
 - Use a comma to separate each value. Do not include spaces before or after the comma.
 - If you are importing user base restrictions, you must enclose each value with double quotation marks ("").
- **9.** Optionally, make sure that any geolocation attributes in the CSV file are in the correct string address, "Latitude,Longitude" or Point(long,lat) format. For example:
 - 311 Fairchild Drive, Mountain View, CA
 - "37.538226,-122.32726"
 - POINT(-122.32726,37.538226)

10.(Optional, for super enterprise or enterprise organizations with user uniqueness enabled.) If you want to prevent users from being moved between organizations after you have imported them, include the Prevent User Move column, and enter Yes for all users.

11.After you have entered your data, save and close the file.

12. Click the filename, and click Open to upload the file into the system.

The filename appears in the User CSV File field on the Import User File screen. Each of the columns from the import file are listed in the **Select the columns to import** section.

13.Optionally, select **Partial User Import Enabled** to enable partial user data to be imported. When selected, if a user entry contains an invalid value, the rest of the user's data is still imported.

Note: Even if you do not select this option, partial user import is still applied when importing geolocation attributes that use a physical address.

- 14.Select the columns of data you want to import or click Select All.
- **15.**Review the **Columns that cannot be imported** list to make sure it does not contain important data that you must be able to view in BlackBerry AtHoc. If the list contains important columns of information, contact BlackBerry AtHoc customer support for help.

16.Click Import.

The Importing Users window opens. The import happens in batches of 5000 users.

While the import is in progress, a **Stop Import** button appears on the **Importing Users** window. Clicking this button stops the import process immediately and prevents the next batch of users from being imported from the file. However, records that have already been added are not removed and records that have been updated are not restored to previous values.

When the import completes, an import summary screen displays following information:

- Total number of users in the import file
- · Total number of users who were processed
- · Number of users who were successfully processed
- Number of users who were partially processed
- · Number of users who failed to be processed
- Username of the person who imported the file
- · Time the file import process started and ended

To import and export operators, see "Importing and exporting operators" in the *BlackBerry AtHoc Operator Roles and Permissions* guide.

Tip: Click **Download Log** on the Import Details: Import Completed screen to download a CSV file that includes information about the sync status of the operator import.

Format a user import CSV file

The following table describes the required import CSV formatting standards.

Field Name	Description	Is Mandatory?
Username	The Username is a value that identifies a user in the BlackBerry AtHoc system and the user repository (for example, LDAP or Microsoft Active Directory) within your organization. The Common Name field must contain a unique value, such as an Employee ID or a Windows user name. After the Common Name is registered with the BlackBerry AtHoc system, the user is linked to the user profile within your organization.	Yes
	The username cannot contain spaces or any of the following characters: []:; = + * ? < >. Leading or trailing spaces are trimmed during the import process. After the leading or trailing spaces are trimmed, the username is accepted and the user is imported.	
Status	 Use the Status column to enable, disable, or delete a user. The following attribute values can be used: Enabled: Enable the user Disabled: Disable the user Deleted: Delete the user The import file must contain a Status column, but the column can be empty. If the Status column is empty but the database contains Status information, the current Status information is overwritten and replaced by the empty values in the import file on import. 	Yes
Hierarchy Common Name	Use the hierarchy common name to specify the location in your User Base Hierarchy where the user is a member. Click Users > Users > Is to view your organizational hierarchy.	No
Static Distribution List Common Name	Use the static distribution list common name to specify a static distribution list to add users to. Click Users > Users > to view your distribution list hierarchy. There can be multiple Static Distribution List Common Name columns. If the user does not already exist, this option can only be used to add the user to a static distribution list. A valid value is "Yes" (the user will be added to this static list.) If the user already exists, use this option to add or remove the user from a static distribution list. Valid values are "Yes" (the user will be added to this static list) or "No" (the user will be removed from this list.)	No
User Attribute Name	Specify a user attribute name as column heading to update user attribute values.	No

Field Name	Description	Is Mandatory?
Device Common Name	Use the device common name to specify a device name in the import file. For pager addresses, specify the pager carrier ID followed by a colon (:) before the pager number. For example, to import pager number, "5551222" with pager carrier ID 3, use "3:5551222" as the pager address in the CSV file. To view the list of pager carrier IDs and names, see "Pager carrier IDs and names" in the <i>BlackBerry AtHoc Create</i> <i>and Publish Alerts</i> guide.	No
Password	Passwords must conform to the password rules set in Settings > Security Policy > Password Update Rules.	No
Organization	Only available for super enterprise or enterprise organizations with user uniqueness enabled. Specify the display name for each organization. New users are created in the specified organization and existing users are moved to the specified organization.	No
	Note: If the following error occurs while importing users in a super enterprise or enterprise organization: "[Organization]: Column was not recognized as an attribute or device", it is because user uniqueness is not enabled. You can enable user uniqueness in Settings > General settings .	
Subscribed Organizations	Only available when the organization subscription feature is enabled and organizations are available for subscription. Specify organizations to subscribe users to. You can subscribe a user to a maximum of ten organizations. Separate organization names with a comma. You can also specify start and end dates for the subscription. Use the date format of your organization. Separate the start and end dates with a pipe () character. For example: Sub- Org1: 4/5/2021 8/8/2021, Sub-Org3: 5/5/2021 , Sub-Org4: 7/7/2021.	No

Stop the import users process

Important: When you import user details into BlackBerry AtHoc using a CSV file, the values that exist in the CSV file overwrite any existing values in the database. If the CSV file contains blank fields, the current values in the database are replaced by empty values.

While the import user process is underway, the import happens in batches of 5000 users. Click the **Stop Import** button on the **Importing Users** window to stop the import process and prevent the next batch of users from being imported.

The Stop Import button stops the import, but does not undo it. Records that have already been added are not removed and updated records are not restored to previous values. To download a CSV file that contains information about the users that were imported before the import was stopped, click **Download Log** on the **Import Details: Stopped** window.

Bulk-update users' physical locations

You can use the BlackBerry AtHoc CSV file import process to bulk-update your organization's users physical addresses without converting the addresses to the latitude,longitude or POINT(longitude latitude) format. When the import process begins, a query is sent to the Bing geolocation API to calculate the longitude and latitude of the user's physical address provided in the input file. Only addresses that the Bing API returns with a match code of High Confidence or Good are processed and added to the database. The latitude,longitude and POINT(longitude latitude) formats are still supported.

After the CSV file user import updates users' physical locations, a preprocessor job performs the following functions:

- Checks for duplicate entries in the input CSV file and removes any duplicates before sending the request to the Bing API.
- Checks the database for existing addresses before sending the request to the Bing API. Existing addresses are not sent to the Bing API for processing.
- · Sends the job to the Bing API for processing.

The preprocessor job runs automatically every 8 hours. The BlackBerry AtHoc management system makes three attempts to submit failed requests to the Bing API at 8 hour intervals.

The post processor job pings the Bing API every 4 hours to check the status of submitted jobs. If a job is complete, the postprocessor job performs the following functions:

- Gets the translated geolocations in latitude, longitude from the Bing API.
- · Records the results in the database.
- Updates the Geocoding Summary and Logs settings page in the BlackBerry AtHoc management system.
- Sends an email to the operator who initiated the bulk update that provides the status of the update including the total number of records processed, successfully processed, and not processed. The email contains a link to the Geocoding Summary and Logs settings page in the BlackBerry AtHoc management system.
- · Adds a record of the update to the operator audit trail in the BlackBerry AtHoc management system.

The postpocessor job runs automatically every 4 hours. The BlackBerry AtHoc management system makes three attempts to download the postprocessor job at 4 hour intervals.

Note: For more information about the Geocoding Summary and Logs settings page, see "View geolocation transactions and logs" in the *BlackBerry AtHoc System Settings and Configuration Guide* guide.

Undo the import users process

The import users process cannot be undone after it runs. The only way to undo the import is to re-import the original data that was overwritten.

Troubleshooting tips for user import

This topic describes some of the issues that may cause a user import to fail, and how to resolve those issues.

Include mandatory fields: Make sure your CSV file contains a column for the mandatory Username field. The Username field must contain a unique value, such as an Employee ID or a Windows user name.

Populate required fields: Before uploading a CSV file to import users, make sure that the file includes columns that match the mandatory user fields in the organization's Users list. If the import file contains a Status column, it must contain a status value.

Use the correct column formatting: Ensure that columns with multiple values have the correct format to import correctly.

- The entire entry must be enclosed within double-quotes. This rule is true even if the multi-select picklist has only one entry.
- A comma must be used to separate each of the values. There can be no spaces before or after the comma.

Examples:

• This example shows two column names, separated by a comma (*no* space before or after the comma). POSITIONS is a multi-select picklist column:

USERNAME, POSITIONS

· This example shows a multi-select picklist attribute column with multiple entries:

Cadiz,"ESH Team Tech Supv,FMT Coordinator,SITE 300,Exercise Call Out,Field Monitoring Team,Coordinator DOC"

- The entire entry starts and ends with regular double-quote characters, not the "smart quotes" used by some word-processors.
- · Each picklist entry is separated by a comma with no spaces before or after the comma.
- An entry can have a space within it. For example: Field Monitoring Team
- This example shows a multi-select picklist attribute with a single entry:

East, "LEDO"

 Make sure that any geolocation attributes in the CSV file are in the correct string address or "Latitude,Longitude" format. For example, 311 Fairchild Drive, Mountain View, CA or "37.538226,-122.32726".

Enable user uniqueness for super enterprise and enterprise organizations: If you are importing users in a super enterprise or enterprise organization, user uniqueness must be enabled. Otherwise, the import fails with the following error: "[Organization]: Column was not recognized as an attribute or device".

For instructions on how to enable user uniqueness, see "Enable enterprise features" in the *BlackBerry AtHoc Enterprise Features* guide.

User import errors: The following table describes possible error messages that may be encountered when importing users from a file:

Error message	Notes/Workaround
Errors were found when parsing the CSV file, such as duplicate column names.	Generic message for unexpected errors. If your CSV file contains a column for organization hierarchy, make sure that it includes the hierarchy common name to specify the location in your User Base Hierarchy where the user is a member.
[Status]: Attribute is mandatory but no value has been provided.	Make sure that the Status column contains a value. Valid values are Enabled and Disabled.
Unable to locate upload directory.	This error occurs when the import file upload path does not exist on the application. The correct path is: %AtHocENS_home%\ServerObjects\uploadStage
The uploaded CSV file does not have a username column. The username column is required.	Update the CSV file to include a username column.

Error message	Notes/Workaround
The uploaded CSV file has no user rows.	Update the file to include user rows. Update the CSV file to include columns.
There was some error in processing the request.	Check the CSV file for duplicate columns.
[Username]: The following characters are not allowed in Username []:; =,+*?<> space.	The username contains one or more invalid characters.
Organization subscription end date provided for org [\{0}] can not be earlier than start date	If a Subscribed Organizations column with start and end dates is included, the end date cannot be earlier than the start date.
Invalid organization subscription end date provided for org [\{0}] , it should be in the format: {1}	If a Subscribed Organizations column includes an end date, the end date must be in the same format as the current organization.
Invalid organization subscription start date provided for org [\{0}] , it should be in the format: {1}	If a Subscribed Organizations column includes a start date, the start date must be in the same format as the current organization.
Unrecognized organization subscription value provided for org [\{0}]	If a Subscribed Organization column is included, the correct name of an organization that is enabled for subscription must be used. When assigning subscription dates, use a single colon (:) and a single pipe (). Do not use double colons (::) or double pipes ().
Organization subscription start date provided for org [\{0}] cannot be earlier than current date	If a Subscribed Organizations column includes a start date, the start date must be later than the current date.

Export users to a file

- 1. In the navigation bar, click Users > Users.
- 2. Select the check boxes beside the users you want to export.

Note: To include dependent users in the export, choose **Sponsors and Non-Sponsors** or **Sponsors** from the pull-down menu and then select **Include Dependents**.

- 3. On the Users screen, click More Actions > Export > Users.
- 4. On the Export Users screen, click Add > to select the columns you want to include in the export file.

Note:

- The export process allows you to export up to 79 columns of user data into a PDF file.
- · You cannot include the password column in the export file.
- 5. Optionally, use the **Move Up** and **Move Down** buttons next to the **Selected Columns** field to change the order the information appears in the export file.

Note: Click the **Reset to columns displayed in User List** to reset the Selected Columns field to its default values.

6. Click Export PDF or Export CSV.

Note: You can export up to 1000 users to a PDF file. You can export up to 25,000 users to a CSV file in a single export. If you are exporting more than 25,000 users to a CSV file, select a grouping of 25,000 users to export.

If you include a geolocation attribute in the export, if the user profile contains a physical address in the geolocation attribute, it is exported to two columns. The first column displays the geolocation attribute in the POINT(longitude latitude) format. The second column displays the attribute as the text string the user entered in their profile. For example, if you have a geolocation attribute called Office Location, a column with a heading Office Location is exported that contains the address in the POINT (longitude latitude) format. A second column with a heading Office Location (Physical Address) is exported that contains the text string the user entered in their profile.

Make mass changes to user details

Note: The following instructions explain how to make global changes to details about users in the BlackBerry AtHoc system. To make a change to an individual user, see Edit user details.

The quickest and easiest way to make mass changes to users in the system is to export the user details as a CSV file, open and modify that file, and then import the file back into the system.

Export the user details

- 1. In the navigation bar, click Users > Users.
- 2. If the users already appear in the results table, select the check boxes beside their names. Otherwise, use the **Search** field to locate them, and then select the corresponding check boxes.
- 3. Click More Actions > Export > Users.
- 4. In the All Columns field, select the columns you want to modify and then click Add > to move them to the Selected Columns field. To include all columns, click Add All at the top of the All Columns field.
- 5. Click Export CSV.
- 6. Save the file to your desktop or to a location you can access easily.

Modify the export file

1. Open the export file.

Note: In most cases you will be viewing the file through Microsoft Excel.

- 2. Locate the column of information that you want to update.
- **3.** If you are replacing the current values in the column with different values for each user, type or paste the values in each cell individually.

If you are replacing the current values in the column with the same value for every user (for example, replacing an old office address with a new one) do the following:

- a. Type or paste the new value in the cell immediately below the header cell.
- **b.** Position your cursor over the bottom right corner of the cell and click and hold as you drag the cell downward to the end of the column.
- c. When you release the cursor, all of the values will be replaced by the entry you typed in the first cell.
- 4. Save the file.

Import the modified user details

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, click More Actions > Import > Users.
- 3. Click Browse.
- 4. Navigate to the location of the file you modified on your computer.
- 5. Click Open.

Search for users

By default, the search engine uses an AND operator between the search criteria in the search field. All search results will contain both criteria. For example, entering john smith returns all users containing both john and smith. For a basic search, the system looks for matches in the user's display name, last name, first name, and username.

To use an OR operator, separate the search criteria by a comma in the search field. For example, entering john, smith returns all users containing john, or smith, or both.

To search for an exact string, enclose the search criteria in quotes. For example, entering "smith, john" returns only users containing the exact string smith, john.

Each criteria pill under the Search field has an AND relationship to other criteria. For example, if you have two existing pills, John and jSmith and then enter the search string Smith in the Search field and click the Search icon, all search results will contain John, jsmith, and Smith in at least one of the following fields: display name, first name, last name, or username.

In advanced searches, when multiple attributes are included in a search, you can select the AND/OR operator. AND is selected by default. The AND/OR operator applies within a search condition and between multiple search conditions. For example, if AND is selected, and the search conditions Last Name starts with smi and First name contains joh are entered, both conditions must be met for a username to appear in the search results. When OR is selected, users with any of the conditions appear in the search results.

The search engine matches any set of letters or numbers anywhere in a word or ID. For example, a search for man returns values such as Manager, Germany, and John Hilman, and a search for 134 returns 134506, 721349, and 863134.

The search is not case-sensitive. For example, searching for Man or man, produces the same results.

Wildcards are not supported in searches.

Operators with search permissions can perform a basic or advanced search from a super enterprise or enterprise organization and find users in any enterprise or suborganization within the super enterprise.

Run a basic search for a user

- 1. In the navigation bar, click **Users** > **Users**.
- 2. On the Users screen, in the Search field, type or paste all or part of any of the following user-related search criteria: display name, first name, last name, or username. You can also enter group-related search criteria for hierarchy nodes or distribution lists.
- 3. Optionally, select the **Include Dependents** option to include dependent users in the search results.
- **4.** Click \bigcirc to view the results. The search terms you enter appear in a pill under the Search field.
- 5. Optionally, add additional search terms and click Q. Additional pills appear under the Search field for each entered criteria. When a new pill is added, the total count of matching results is updated below the Search field.
- 6. Optionally, click the 🖾 icon in a search pill to remove the pill. The search results update to display the users that match the remaining search criteria
- 7. Optionally, filter search results by user type.
- 8. Optionally, click Clear All to remove all search pills.

Include groups as search criteria

Use the 🔊 (groups) button to open the **Select Groups** window and include distribution lists, organization hierarchy nodes, or targetable groups as additional search criteria.

- 1. On the Users screen, click 🙈.
- 2. On the Select Groups window, select the groups to include in the search.
- 3. Click Apply. The selected groups, lists, and nodes appear as separate pills beneath the search field.
- 4. Click Q to view the results.

Run an advanced search for a user

Note: Before running an advanced search, see Search for users for important information on how the search engine works and Advanced search attribute types for a complete list of user attributes you can use to create advanced searches.

You can run an advanced search for a user that includes organizational hierarchies and user attributes as search criteria.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users screen, click Advanced.
- 3. On the **Create Conditions** window, select the **AND** or **OR** operator. When AND is selected, users must meet all search conditions to be included in the search results. When OR is selected, users that match any of the search conditions are included. The default is AND.
- 4. Click Select Attribute and select the attribute you want to add to the search.

Note: The list that appears contains all organizational hierarchies and attributes you have access to in the system.

- 5. After you make an attribute selection in Step 4, a Select Operation field appears. Select an operation.
- 6. After you make an operation selection in Step 5, a third field appears. Depending on the attribute type selected in Step 4, the third field can be a text-entry field, a drop-down list, a date field, or any other field types listed in Advanced search attribute types. Enter or select a value in the field.

Tip: For Multi-select Picklist, Single-select Picklist, and Status type attributes, enter characters in the search box to filter the list of attribute values. You can enter characters that appear anywhere in the attribute value.

- 7. Optionally, click Add Condition to add another attribute condition to the search, then repeat steps 4 through 6.
- 8. Click Apply.

The search results display all users who match the attribute conditions you created.

Advanced search attribute types

The following table lists the different attribute types, operators, and values you can use in an advanced search. It also provides examples to illustrate how each attribute criteria would appear in the advanced search field.

Attribute Type	Operator	Value	Examples
Checkbox	IsYesIsNotOrEmpty	Yes	 Currently Online is Yes CPR Certified is No

Attribute Type	Operator	Value	Examples
Date	 Equals NotEquals Before After IsEmpty IsNotEmpty 	 Date Panel (showing date value + Past & Next x days value) Hide 	 Joining Date equals 5/4/2022 CPR Expiration Date older than Sysdate - 30 days Expiration Date is empty
Date Time	BeforeAfterIsEmptyIsNotEmpty	Date Time Panel (showing date value + Past & Next x days value)	Age is emptyAge is not empty
Geo-aware Single-select Picklist	 Equals NotEquals IsEmpty IsNotEmpty 	Single-value selection option of a geolocation	Home Office equals Mountain View
Geolocation ¹	IsInsideIsOutside	Map screen to show selectionsHide	Home Location is inside shape on the map
Memo	-	-	-
Multi-select Picklist	EqualsNotEqualsIsEmptyIsNotEmpty	Multi-value selection options	 Emergency Community not equals Fire Rank equals Commander, Captain
Number	 Equals NotEquals LessThan GreaterThan GreaterThanOrEqualTo LessThanOrEqualTo IsEmpty IsNotEmpty 	 Whole number without decimals Hide 	 Age equals 30 Age greater than 18 Age less than 65 Age is empty Age is not empty
Single-select Picklist	EqualsNotEqualsIsEmptyIsNotEmpty	Single-value selection option	Building is not empty
Status	EqualsNotEqualsIsEmptyIsNotEmpty	Alphanumeric text	Status is Safe

Attribute Type	Operator	Value	Examples
Text(String)	 Equals NotEquals StartsWith EndsWith Contains DoesNotContain IsEmpty IsNotEmpty 	 Alphanumeric text Hide 	 First Name equals John First Name starts with A First Name contains andy First name is empty
Org Hierarchy	 At AtOrBelow NotAt NotAtOrBelow 	Multiselection of node in hierarchy	<node name="" names="" or=""></node>

¹ Geolocation type attributes appear in advanced search only on alert publishing pages.

Filter search results by user type

You can limit the types of users to include in search results before running the search or after generating results.

Click the links below the search field and then select from the following filter options:

- **Enabled Users**: Search results include enabled users only, excluding disabled users. This option is selected by default.
- All Users: Search results include everyone.
- Enabled Users with Operator Permissions: Search results include all enabled users who have been granted operator permissions. Results exclude disabled users with operator permissions and all users without operator permissions.
- All Users with Operator Permissions: Search results include all users who have been granted operator
 permissions regardless of whether the user is enabled or disabled. Results exclude all users without operator
 permissions.
- Deleted Users: Search results include all users that were deleted for the last 7 days.
- **Sponsors and Non-Sponsors**: Search results include all users regardless of whether they have dependents. This option is selected by default.
- · Sponsors: Search results include only users who have dependents.
- · Non-Sponsors: Search results include only users who do not have dependents.
- Include Dependents: Search results include dependents.

Customize search results columns

- 1. Click Add in the header row of the Users list. A blank column appears in the table.
- 2. Click ✓ in the Select a column to add field to view the available user attributes and devices you can add to the results list.
- 3. Click to select one of the options. The table refreshes to display the new column.

Note: To remove any of the search result columns that you added, click the X icon beside the column header. The Display Name/Username column appears by default and cannot be removed.

Select search results

After you run a search, you can select individual users or all users from the search results list.

- To select individual users, select their corresponding check box in the first column.
- To select all search results, select the check box in the column header of the first column.

When users are selected, click More Actions and select any of the following actions:

- Enable the selected users
- · Disable the selected users
- · Delete the selected users
- Export the user information to CSV
- Export the user information to PDF
- · Move the user to another organization

Subscribed users from other organizations that appear in the search results can be viewed but not edited, disabled, deleted, or exported.

The Users list also contains a link that allows you to import users from a spreadsheet or other file, which does not require the selection of users from the search results.

Sort search results

To sort search results, click a of the column header to sort the results based on the data in the selected column.

After you click the column header, a small (**Up**) or (**Down**) icon appears beside the name, indicating which column the data is being sorted by and the direction of the sort.

Click the same column header again to sort the data in the other direction: for example, ascending or descending, alphabetical or reverse alphabetical, or largest or smallest value.

If dependents are enabled in your organization, the **Sponsor** column appears. Sorting on this column displays dependent users under their sponsors.

Reset the search field

To reset the search field, which removes all search criteria and returns the search table to its default state, click **Clear all** next to the user link after you have run a search with at least one search criteria.

Note: Clicking the **Clear all** button does not remove any filtering on the search screen. For example, if users are filtered by a specific kind of user such as enabled users or sponsors, clicking **Clear all** does not affect those settings.

View user details

You must be an End Users Manager to view detailed information about users in the BlackBerry AtHoc system, including contact address, memberships, login information, and location information. If you are an End Users Manager, Organization Administrator, or Enterprise Administrator you can view users' details when logged in to a super enterprise or enterprise organization.

- 1. In the navigation bar, click **Users** > **Users**.
- **2.** Optionally, if you are logged in to a super enterprise or enterprise organization, click the name of an organization in the **Organization** column to view the user's organization hierarchy.
- 3. On the Users screen, click a user name.

The detail screen for the user appears. The details screen displays the following information about the user:

- Basic information including:
 - Username
 - Display name
 - · First and last name
 - Date the user was created
 - Sponsor (if dependents are enabled.) If the user is a dependent, their sponsor's Display Name is displayed. If the user is a sponsor, the Sponsor field displays their Display Name with (Self).
- Numbers
- Online addresses
- Physical addresses. Displays the time the user's location was last updated. To view the user's location on a map, click ^(S).
- Last Known Location. Populates with location information from a check-in, check-out, alert response, report, emergency, or tracking from the BlackBerry AtHoc mobile app. Click (5) to view the user's last known location on a map. Click Clear to remove the last known location. The last known location cannot be edited from the BlackBerry AtHoc management system or Self Service.
- · Distribution list membership
- Password
- · Organization subscriptions
- Permissions
- · Login and location
- BlackBerry AtHoc Apps: Shows whether the user is active on the BlackBerry AtHoc desktop app or mobile app. If the user is logged in, the number of instances they are logged in to on each app is displayed. If the user is not logged in, the field displays the phrase *Not Available*.
- User activity, including:
 - · Self Service last sign-on, profile updated, and device information updated dates
 - User move information including date the user was moved, who moved the user, and what organization the user was moved from
- Any user attributes defined by administrators

View operator roles in multiple organizations

If an operator has roles and permissions in multiple organizations, you can view the operator's roles in the organization you are currently logged in to from the Permissions section of the operator's profile page. You can also view the operator's roles in other organizations from the user manager page and from the operator's profile page.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users page, do one of the following:
 - In the Roles column, click Roles in {x} other organizations.
 - Click the row for the operator you want to view. In the user profile page, in the Permissions section, click This user has roles in {x} other organizations.

The **Roles in other organizations** window opens and displays the roles the operator has in each organization.

View user activity

The Activity List screen enables authorized users to view all activities for individual users in the BlackBerry AtHoc system. Click a specific user activity to open an activity details screen that provides information about the activity and any response the user made.

- 1. In the navigation bar, click **Users** > **Users**.
- **2.** Click the user name.

The user details screen opens, displaying information for the user in the system.

- 3. Click More Actions > View Activities.
- 4. Click a specific activity to view more details.

The details of the activity appear to the right of the activities list.

For each activity, the following details are displayed:

- Title
- Content
- · Date and time the activity was initiated or created
- Publisher
- The timeline for the activity, listing all devices the activity was sent to and the time the alert was sent and
 received. The timeline also lists details about instances where the alert was responded to, but ignored by the
 system.
- If the alert was responded to, a Responded section appears above the Activity Timeline, displaying the date and time and responding device of the first response received.

Export user activity details

You can export the user activity details to a .pdf file. You can export one or all activities for a user.

- 1. In the navigation bar, click **Users** > **Users**.
- 2. On the Users screen, click the user name.
- 3. On the user details page, click More Actions > View Activities.
- 4. Choose which activities to export:
 - · To export all activities, click Export PDF.
 - To export a specific activity:
 - a. Click a specific activity. The details of that activity appear beside the activities list.
 - **b.** Click the **b** in the corner of the activity details field.

Manage dependents

This section describes how to manage dependent users.

Create dependents for a user

You can add dependent accounts for users with family members or others that should receive alerts when they do. Users with dependents are referred to as sponsors. Sponsors and administrators can add a dependent account for anyone who should receive alerts but does not have an account in the BlackBerry AtHoc system.

A dependent is a sub account of a sponsor user. The sponsor user has full control to create, edit, and delete their dependents from Self Service.

The operator has the option to include dependents when sending out an alert or requesting accountability status.

Dependents can respond to alerts and update their status for events from the Self Service Inbox if a password is added to their user profile and manual user authentication is enabled for Self Service in the organization.

If a dependent does not respond to an accountability event, the sponsor user may be requested to provide the status of the dependent through the Self Service Inbox.

The layout of the user page for dependent users is different than the layout for sponsors. If there are attributes that should be included for dependents, the administrator must modify the page layout for dependents from **Settings** > **General Settings**.

- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click Users > Users.
- **3.** On the **Users** screen, search or scroll down the users list to find the sponsor user you want to add a dependent for.
- 4. Click the row with the sponsor user's name.
- 5. On the user details screen, click More Actions > View Dependents.
- 6. On the Dependents screen, click New.
- 7. On the **New Dependent** screen, in the **Basic Information** section, enter a Username, First Name, Last Name, and Display Name. Only a Username is required.
- 8. Optionally, in the Online Addresses section, add contact information for the dependent.
- **9.** Optionally, in the **Password** section, enter and confirm a password for the dependent. You must enter and confirm a password if you want the dependent to be able to log in to Self Service to view and respond to alerts and events.

10.Click Save.

11.Click Back to return to the Dependents screen.

12. Optionally, repeat Steps 6 to 11 to add additional dependents for the sponsor user.

Import dependent users

To import dependent users, include the username of the sponsor in a Sponsor column in the import CSV file.

The following conditions apply to importing dependent users with a CSV file:

- The dependents feature must be enabled for your organization.
- The username of the sponsor must already exist in the BlackBerry AtHoc system before attempting the import.

- You cannot import a user as a dependent if they are already in the system as a sponsor.
- · Dependents can only be imported into the organization of their sponsor.
- Dependents must have unique usernames in the BlackBerry AtHoc system.
- If partial user import is enabled and there is an error in the sponsor user row, the dependent user is imported as a standalone user, not as a dependent of the sponsor.
- · You can change the sponsor of a dependent to another sponsor in the BlackBerry AtHoc system.
- You can change a sponsor user into a dependent user by setting their sponsor attribute to the username of another sponsor user.
- You cannot import both the organization attribute and the sponsor attribute in the same file. This prevents a dependent from being created in a different organization than their sponsor.
- You can import dependent users from the suborganization, enterprise, or super enterprise level.

View or edit a dependent

- 1. Log in to the BlackBerry AtHoc management system.
- 2. In the navigation bar, click Users > Users.
- 3. Optionally, to view or edit the details for a dependent from the Users screen:
 - a) On the Users screen, select Sponsors from the pull-down menu under the search field.
 - b) Select the Include Dependents option.
 - c) Click the column header of the **Sponsor** column to sort the list of sponsors and their dependent users. Dependents are displayed under their sponsors.
 - d) Click the row with the dependent's name.
- 4. Optionally, to view or edit the details for a dependent from a sponsor's profile page:
 - a) Search or scroll down to find the sponsor.
 - b) Click the row with the sponsor user's name.
 - c) On the user profile page, click More Actions > View Dependents. The Dependents screen opens.
 - d) Optionally, on the **Dependents** screen, enter a name in the **Search by name** field to find a specific dependent.
 - e) On the **Dependents** screen, click the row for a dependent.
- 5. On the dependent profile page, edit the basic user information, contact information, or password as needed.
- 6. Optionally, in the BlackBerry AtHoc Apps section, click Active (*x*) beside Mobile App to delete the dependent's unused mobile device. On the User Mobile Devices window, click 🗙 beside the mobile device to delete.
- 7. Click Save.

Delete a dependent

- 1. Log in to the BlackBerry AtHoc management system.
- 2. In the navigation bar, click Users > Users.
- 3. Optionally, to delete a dependent from the Users page:
 - a) On the Users screen, select Sponsors from the pull-down menu under the search field.
 - b) Select the Include Dependents option.
 - c) Click the column header of the **Sponsor** column to sort the list of sponsors and their dependent users. Dependents are displayed under their sponsors.
 - d) Select the check box in the row with the dependent's name.
 - e) Click More Actions > Delete.

- f) On the confirmation dialog, click **Delete**.
- 4. Optionally, to delete a dependent from a sponsor's profile page:
 - a) Search or scroll down to find the sponsor.
 - b) Click the row with the sponsor user's name.
 - c) On the sponsor profile page, click **More Actions** > **View Dependents**. The Dependents screen opens.
 - d) Optionally, on the **Dependents** screen, enter a name in the **Search by name** field to find a specific dependent.
 - e) On the **Dependents** screen, click the row for a dependent.
- 5. On the dependent profile page, click **Delete**.
- 6. On the confirmation dialog, click **Delete**.

Deleting a dependent cannot be undone.

Prioritize personal devices for dependents

Before you begin:

- Device delivery preference must be enabled for the organization.
- · At least one personal device must be enabled in the organization.
- · The dependent must have at least one enabled device with an address in their profile.
- You be an Enterprise Administrator, Organization Administrator, End Users Manager, or Advanced Alert Manager to prioritize personal devices for a dependent.
- 1. Log in to the BlackBerry AtHoc management system.
- 2. Click Users > Users.
- 3. On the Users screen, select the user whose dependents you want to update.
- 4. On the user details page, click More Actions > View Dependents.
- 5. On the Dependents screen, click Prioritize Personal Devices.
- 6. On the **Prioritize Personal Devices** window, click \ddagger and drag to reorder the device. Personal devices are prioritized according to their position in the list, with the highest priority device appearing on top.
- 7. Click Save.

Manage organization subscriptions

This section describes how to manage organization subscriptions for users in enterprise organizations.

Use organization subscriptions to enable users in an enterprise organization to receive alerts and accountability events from other suborganizations in their enterprise organization. This feature enables users to subscribe on a temporary basis to up to 50 suborganizations. The subscribed user can then receive any alerts or events that are targeted to them in their home organization as well as in their subscribed organizations. The user's home organization is the organization where their profile is stored. A user's subscribed organization is an organization that a user can be targeted in, but their profile does not get moved to.

In a super enterprise organization, when organization subscription is enabled, users can receive alerts from the suborganizations of any enterprise within the super enterprise organization.

Subscribed users can be targeted from their subscribed organization using email, SMS, phone, and mobile app devices and can be targeted using any targeting criteria such as location, groups, or attributes. Targeted devices must be enabled on both the home and subscribed organizations. When targeting subscribed users by attributes, those attributes must be enterprise-level attributes.

The organization subscription feature is disabled by default and must be enabled by a System Administrator. Enterprise Administrators select the suborganizations within their enterprise organization that are available for subscription. Enterprise Administrators in a super enterprise organization can select suborganizations from any of their sub enterprises.

Users can be subscribed to a maximum of 50 available organizations.

Once organization subscriptions are enabled, operators can subscribe users from the BlackBerry AtHoc management system or by using the CSV user import process. Users in suborganizations can subscribe themselves to enabled suborganizations from Self Service or the mobile app. The Organization Subscription for End Users option in the Customization > Self Service section in General Settings must be selected in a suborganization for it to appear for subscription in Self Service. This option is enabled by default.

If the organization subscription feature is disabled, any existing subscriptions are cancelled. Administrators and users can set a start date, set an end date, or cancel their subscriptions.

The profiles of users who are subscribed to organizations remain on the home organization.

On the subscribed organization, subscribed users are visible in search results, can be added to distribution lists, and can be targeted in alerts or events. Their profiles can be viewed, but not edited or deleted, from the subscribed organization. Two new standard user attributes "Temporary work location" and "Subscribed Organizations" have been added to enable searching and targeting subscribed users.

Standalone users and sponsor users can subscribe to organizations. Dependents cannot be subscribed to other organizations.

User uniqueness must be enabled on the enterprise or super enterprise organization before organization subscriptions can be enabled. For more information, see the *BlackBerry AtHoc Enterprise Features* guide.

When an operator is granted Accountability Officer permissions from the External Operator Permissions settings page of a suborganization within an enterprise or super enterprise organization, they are automatically subscribed to that suborganization. This ensures that the Accountability Officer can be targeted in accountability events and can respond on behalf of others.

Subscribe users to organizations

This section describes how to subscribe users to suborganizations other than their home organization using the BlackBerry AtHoc management system or the CSV user import process. For instructions on subscribing to organizations from Self Service, see the *BlackBerry AtHoc Self Service User Guide*.

Before you begin: Before users can be subscribed to organizations, the following conditions must be met:

- The Organization Subscriptions feature must be enabled on the super enterprise or enterprise organization.
- The Enterprise Administrator must select the organizations that are available for subscription.

The Organization Subscription for End Users option must be selected in the Customization > Self Service section in General Settings in a suborganization for end users to be able to subscribe to that organization from Self Service.

Subscribe a single user

- 1. Log in to the BlackBerry AtHoc management system.
- 2. Click Users > Users.
- 3. On the Users screen, select a user from the list.
- 4. On the user profile screen, click Edit User.
- 5. On the user profile screen, in the Organization Subscriptions section, click Add Subscription.
- 6. On the Subscribe Organization screen, select an organization from the list.
- 7. Click Apply.
- 8. In the Organization Subscriptions section, enter a date or click in to select a start date for the subscription.
- 9. Optionally, click 🗯 to set an end date for the subscription.
- **10.**Optionally, repeat Steps 5 to 9 to subscribe the user to additional organizations. You can subscribe the user to a maximum of 50 available organizations.

11.Click Save.

The user can now be targeted in alerts and events from their subscribed organizations.

Subscribe multiple users

You can use the CSV user import process to delete or modify organization subscriptions for multiple users.

- 1. Log in to the BlackBerry AtHoc management system.
- 2. Click Users > Users.
- 3. On the Users screen, select the users you want to subscribe to organizations.
- 4. Click More Actions > Export > Users.
- 5. On the Export Users screen, in the All Columns list, select Subscribed Organizations > Add >.
- 6. Click Export CSV.
- 7. Save the CSV file to your local system.
- 8. Open the CSV file.
- **9.** Update the **Subscribed Organizations** column to add, remove, or modify the organizations for each user. You can subscribe each user to a maximum of 50 available organizations.
- **10**.Optionally, in the **Subscribed Organizations** column, add start and end dates for the subscription. Separate the start and end dates with a pipe (|) character. Use the date format of your current organization. For example: Sub-Org1: 4/5/2021 8/8/2021, Sub-Org3: 5/5/2021 , Sub-Org4: |7/7/2021.
- 11.Save the CSV file.

12.In the BlackBerry AtHoc management system, click Back to return to the Users screen.

13.lick More Actions > Import > Users.

14.On the **Import User File** screen, click **Browse** and select the CSV file on your local system. **15.**Click **Open**.

16.In the Select the columns to import section, select Subscribed Organizations.

17.Click Import.

18. Optionally, on the Import Details window, click Download Log to view the results.

The updated users can now be targeted in alerts and events from their subscribed organizations.

View subscribed users

Subscribed users can be viewed in their subscribed organization from the user manager and from search results. Subscribed users cannot be edited or deleted from the subscribed organization.

- 1. In the navigation bar, click Users > Users.
- 2. On the Users page, click Add.
- 3. In the Select a column to add list, select Subscribed Organizations.

A sortable Subscribed Organizations column is added.

Manage user attributes

User attributes provide powerful ways to organize, filter, and manage users. For example, you can create user attributes to describe characteristics of end users, and then use the attributes to target users for alerts through dynamic distributions lists.

The following sections describe how to view, create, edit, and translate user attributes.

User attributes can also be configured as preset response options in alerts and events. For more information about creating user attributes as response options, see "Configure a response option as a user attribute" in the *BlackBerry AtHoc Create and Publish Alerts* guide.

View a list of user attributes

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Attributes.
- 3. On the User Attributes screen, the following information is displayed for each attribute:
 - **Name**: The name that is displayed when the attribute appears in lists or on fields in the BlackBerry AtHoc system.
 - **Type**: The kind of data that corresponds to the attribute: text, number, memo, date, dates and time, single-select picklist, multi-select picklist, geolocation, or check box.
 - **Organization**: Specifies the organization the attribute was created in.
 - Updated On: Specifies the date the attribute was last modified.

Tip: You can sort the list by any column.

4. Click the name of an attribute to view the details.

Out-of-the-box user attributes

The following table describes the user attributes that are included automatically in your system.

Note: The following out-of-the-box attributes include additional subattributes such as Updated By or Updated On:

- Last Known Location
- My Info Updated On
- User Last Updated On

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Accountability Exercise Participation	ACCOUNTABILITY EXERCISE- PARTICIPATION	Y-Captures response options for accountability events.	Υ	Υ	Picklist

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Alert Last Responded On	ALERT-LAST- RESPONDED- ON	Captures when a user last responded to an alert.	Ν	Ν	Datetime
Created On	CREATEDON	Displays a user's created date.	Ν	Ν	Datetime
Display Name	DISPLAYNAME	Displays a user's display name.	Y	Ν	String
Distribution List Folder	Distribution Lists	Defines the distribution list hierarchy. This attribute is available at every level of a super enterprise or enterprise hierarchy.	Y (Read-only for end users.)	Ν	Path
Do not Delete User	DO-NOT-AUTO- DELETE-USER	Prevents a user from being deleted.	Y (Operators only.)	Y	Checkbox
Do not Disable User	DO-NOT-AUTO- DISABLE-USER	Prevents a user from being disabled.	Y (Operators only.)	Y	Checkbox
Client Certificates	DSW-CLIENT- CERT	Holds the client certificate subject string when the desktop app performs registration using CAC authentication.	Ν	Ν	String
OS Domain Name	DSW- DOMAINNAME	Captures a user's desktop client computer domain name.	Ν	Ν	String

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Currently Online	DSW-IS-ONLINE	Captures the desktop client online status. At registration the value is captured as ON. After captured, there is no way to set this value to OFF.	Ν	Υ	Checkbox
Desktop Last Redirected To	DSW-LAST- REDIRECTED	Captures the organization the desktop client was last redirected to.	Ν	Ν	String
OS Logon Name	DSW- LOGONNAME	Captures a user's desktop client computer log on name.	Ν	Ν	String
Machine IP	DSW- MACHINEIP	Captures a user's desktop client computer IP.	Ν	Ν	String
Machine Name	DSW- MACHINENAME	Captures a user's desktop client computer name.	Ν	Ν	String
Desktop Client Redirect URL	DSW- REDIRECT- BASEURL	Captures the desktop client redirection organization base URL.	Y (Operators only.)	Ν	String
Desktop Received Redirect	DSW- REDIRECT- COMPLETE	Indicates whether the desktop client has received redirect settings.	Ν	Y	Checkbox
Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
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Desktop Client Redirect Organization	DSW- REDIRECT-VPS- ID	Captures the desktop client redirection organization ID.	Y (Operators only.)	Ν	Number
Desktop Last Sign-On	DSW-SIGNON- TIME	Holds the desktop client first sign on date and time.	Ν	Ν	Datetime
OS User Name	DSW- USERNAME	Captures a user's desktop client computer log on name.	Ν	Ν	String
Desktop Software Version	DSW-VERSION	Captures a user's desktop client version.	Ν	Ν	String
Escalation Group	ESCALATION- GROUP	Group attribute that groups users in an escalation category.	Υ	Ν	Special Attribute
First Name	FIRSTNAME	Captures a user's first name.	Υ	Ν	String
Incident Preparedness Status	INCIDENT- PREPAREDENESS STATUS	Captures - the status of accountability event response options.	Υ	Υ	Picklist
Incident Prevention Status	INCIDENT- PREVENTION- STATUS	Captures incident prevention status for accountability event response options.	Υ	Y	Picklist
Last Known Location	LAST-KNOWN- LOCATION	Captures a user's last known location from the mobile app.	Y (Operators only.)	Ν	Geolocation

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Last Login Date	LAST-LOGIN- DATE	Captures the date and time an operator last logged in.	Ν	Ν	Datetime
Last Name	LASTNAME	Captures a user's last name.	Y	Ν	String
Username	LOGIN_ID	Captures a user's Username.	Y	Ν	String
Mapping ID	MAPPING_ID	Captures a user's Mapping ID.	Y	Ν	String
Organizational Hierarchy	Organizational Hierarchy	Publishes an alert to specific users in a hierarchy. This attribute is used only for standalone and suborganizations and is not applicable at the super enterprise or enterprise level.	Y (Read-only for end users.)	Ν	Path
Work Availability	PA- AVAILABILITY	Enterprise or super enterprise level attribute that captures a user's work availability status in accountability events.	Υ	γ	Picklist

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
CPR Certified	PA-CPR- CERTIFIED	Enterprise or super enterprise level attribute that captures a user's CPR certification status in accountability events.	Υ	Υ	Picklist
Current Location	PA-CUR- LOCATION	Enterprise or super enterprise level attribute that captures a user's current location in accountability events.	Υ	Υ	Picklist
Office Building	PA-OFFICE- BUILDING	Enterprise or super enterprise level attribute that captures a user's office building in accountability events.	Υ	Υ	Picklist
Transport Needs	PA- TRANSPORT	Enterprise or super enterprise level attribute that capture's a user's transport needs in accountability events.	Υ	Υ	Picklist
Pin	PIN	Configures a PIN that a user is prompted to enter during a telephone message. This attribute is not searchable.	Υ	Ν	String

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Prevent User Move	PREVENT- USER-MOVE	Enterprise or super enterprise level attribute that prevents users from moving to other organizations.	Y	Y	Picklist
Safety Status	SAFETY- STATUS	Captures a user's Safety Status in accountability event response options.	Y	Y	Picklist
Self Service First Sign-On	SS-FIRST- SIGNON	Captures the date and time a user first signed in to Self Service.	Ν	Ν	Datetime
Self Service Last Sign-On	SS-LAST- SIGNON	Captures the date and time a user last signed in to Self Service.	Ν	Ν	Datetime
Self Service My Device Info Updated On	SS-MY-DEVICE- INFO-UPDATED- ON	Captures the date and time a user updated the device information in their profile using Self Service or the mobile app.	Ν	Ν	Datetime
My Info Updated On	SS-MY-INFO- UPDATED-ON	Captures the date and time a user updated their profile using Self Service or the mobile app.	Ν	Ν	Datetime

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
Status	STATUS	Captures a user's status.	Y (Operators only.)	Υ	Picklist
Temporary Work location	SUB-ORG- TEMP- LOCATION	Captures a user's temporary work location. This attribute is used for organization subscription.	Υ	Ν	Geolocation
Subscribed Organizations	SUBSCRIBED- ORGANIZATIONS	Enterprise or super enterprise attribute that holds a user's organization subscriptions.	Υ	Ν	Picklist
System Groups	SYSTEM- GROUPS	Target group attribute that contains the All Users, All Registered Users, and All Sign Out Users attribute values. By default, users are assigned to the All Users group. The All Users group is used in publishing to target all users.	Y (Operators only.)	Υ	Multi-select Picklist
Designation	USER- DESIGNATION	Enterprise or super enterprise level attribute used in Situation Response.	Υ	Υ	Picklist

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
User Last Updated On	USER-LAST- UPDATED-ON	Captures the date and time when a user record was last updated.	Ν	Ν	Datetime
Organization	USER- ORGANIZATION	Enterprise or super enterprise level attribute that filters organization- specific entities used for user moves. This attribute is editable by user sync, user import, and the User API.	Υ	Υ	Picklist
Preferred Language	USER- PREFERRED- LANGUAGE	Enterprise or super enterprise level attribute that holds a user's preferred language settings.	Υ	Υ	Picklist
Sponsor	USER- SPONSOR	Maps sponsors to their dependents.	Y	Ν	String
Password	USR_PSWD	Captures a user's self registration password. This attribute is not searchable.	Y	Ν	String
Work Availability Status	WORK- AVAILABILITY- STATUS	Status attribute that captures a user's work availability status in accountability event response options.	Υ	Ν	Picklist

Attribute name	Common name	Description	Editable (Y = Editable, N= Read-Only)	Available as response option	Attribute type
ATHOC-GV- KEYS	ATHOC-GV- KEYS	Giant Voice integration attribute.	Y	Ν	Memo
ATHOC-GV- TYPE	ATHOC-GV- TYPE	Giant Voice integration attribute.	Y	γ	Picklist

Create a user attribute

User attributes can be managed at the system, super enterprise, enterprise, or organization level. Inheritance rules can have an impact on who can use them, so verify that you are creating them at the correct organization level. For more information, see "Manage common content with inheritance" in the *BlackBerry AtHoc Plan and Manage Enterprise Organizations* guide.

For detailed instructions on creating a Geo-aware Single-select Picklist attribute, see Create a Geo-aware Single-select Picklist attribute.

For detailed instructions on creating a dynamic hierarchy attribute, see Create a dynamic hierarchy attribute.

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Attributes.
- 3. On the User Attributes screen, click New and select one of the following attribute types:

• • •	Checkbox Date Date Time Dynamic Hierarchy	• • •	Geo-aware Single-select Picklist Geolocation Memo Multi-select Picklist	• • •	Number Single-select Picklist Status Text
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The New Attribute screen displays the fields required to create a user attribute.

4. In the **Name** field, enter the name that will be displayed when the attribute appears in lists or fields in the BlackBerry AtHoc system. The attribute name has a 128 character limit.

Note: If the user attribute will be used for preset response options, enter "RO" before the name. Operators can identify it as a response option when publishing an alert.

5. Optionally, in the **Tooltip** field, enter a hint that displays when users hover their cursor over the attribute field.

Country of Birth *	I	
	The Enter the country where the user was not be the same as their nationality.	; born. This might

6. Optionally, in the Help Text field, enter text that will appear under the field.

Country of Birth * The country where the user was born

7. Optionally, modify the Common Name value.

Note: The value of the Common Name field is the same as the attribute Name value by default. You can modify the Common Name, but it is not typically changed. The common name has a 128 character limit.

- 8. Select Users Can Update if users need to modify the value.
- 9. Select Mandatory if the attribute is a required field in user profiles.

10.Optionally, select Use as a Response Option.

Note: Only Checkbox, Geo-aware Single-select Picklist, Single-select Picklist, and Status attribute types can be used as a response option. Attributes used as response options can have up to 9 values. Attribute values used as response options must be less than 64 characters.

11.In the **Values** section, click **Add value**. Depending on the attribute type selected, the value fields in the following table appear.

Attribute type	Values fields
Checkbox	Select the Selected by Default option for the attribute to be selected by default when it appears.
DateDate Time	Select the Earliest Allowed Date Time and Latest Allowed Date Time from the calendar pickers. Set the date-range and time-range for the fields by entering the first and last dates and times it covers.
Geo-aware Single-select Picklist	 a. In the Value field, enter a value that a user can select from a pull-down list. b. In the Geo location field, specify a real physical address or location coordinates in the POINT(longitude/latitude) or latitude,longitude format.
	 Note: Due to validation of individual geolocation entries in the CSV import file, importing many values will take time. c. Optionally, click Import Values to import the attribute values from a CSV file. Up to 2000 values can be imported. d. Specify the order the values appear in the list. The sort order is the same anywhere the attribute is displayed. e. Click Save.
Geolocation	 a. Click Change beside Map Icon to select the icon to display on maps to represent the attribute. b. Optionally, select the Save Location History option to track where the icon is located on the map over time.
Memo	-
Multi-select PicklistSingle-select Picklist	 a. In the Value field, enter a value that a user can select in the attribute field. b. Optionally, select a default value.

Attribute type	Values fields
	 c. Optionally, click Import Values to import the attribute values from a CSV file. d. Specify the order the values appear in the list. The sort order is the same anywhere the attribute is displayed. This is also the order users will be sorted in when sending an alert that contains escalation rules. e. Click Save.
NumberText	In the Minimum Value and Maximum Value fields, enter the minimum and maximum number of characters that end users must enter in the attribute field.
Status	 a. In the Value field, enter a value that a user can select in the attribute field. b. Specify the order the values appear in the list. The sort order is the same anywhere the attribute is displayed. c. Optionally, click Import Values to import the attribute values from a CSV file. d. Click Save.

12.Optionally, in the **Page Layout** section, select the pages and sections where the user attribute appears. For each page listed in the section, click the drop-down list and select the location where you want the user attribute to appear or select **Do not show** to avoid having it appear anywhere on the corresponding page.

- **13.**Optionally, for dynamic hierarchy, multi-select, single-select, and geo-aware single-select picklist attributes, complete the **Personnel Reports** section to create a personnel report based on the attribute and its values:
 - a. Select the Enabled option.
 - **b.** Enter a report name and description.

You can view this report from **Reports > Personnel**. **14.**Click **Save**.

Edit a user attribute

User attributes that are created prior to the deployment of the organization cannot be edited within the organization. If editing user attributes on System Setup, do not modify the common name.

- 1. In the navigation bar, click Users > User Attributes.
- 2. On the User Attributes screen, click the user attribute you want to edit.

Note: You can search by attribute name to filter the list of attributes. You can also display only the attributes that are defined within the organization to filter out inherited super enterprise, enterprise, and system attributes.

3. Update the Basic, Values, Page Layout, Bulk Update Values and Personnel Reports sections.

Note: The **Info** section cannot be edited. It lists the name of the user who created the attribute, the date it was created, the last user to update the attribute, and the last date the attribute was updated.

- **4.** Optionally, to reorder the values in an attribute with a large number of values, the best practice is to export the values to a CSV file, update the order, and then import the updated CSV file:
 - a. In the Values section, click Export to CSV.
 - b. Open, modify, and save the CSV file.
 - c. Click Import Values.
 - d. On the Import Values to New Attribute dialog, click Browse to navigate to and select the updated CSV file.
 - e. Select the When checked, all existing values will be replaced with the values in the CSV file option.
 - f. Click Import.

Note: This option is available only for attribute types that support the import and export of values such as Status, Single-select Picklist, Multi-select Picklist, and Geo-aware-Single-select Picklist attributes. Up to 2000 values can be imported for a Geo-aware-Single-select Picklist attribute.

5. Click Save.

Prevent users from editing System Setup attributes

To preserve the integrity of user data and improve security, administrators can prevent end users from editing the following System Setup attributes from their Self Service profile:

- Username
- First Name
- Last Name
- Mapping ID
- Display name

By default, users can edit these System Setup attributes in Self Service.

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Attributes.
- **3.** Optionally, click the **Organization** column to sort the list of attributes or use the **Search** field to find the attribute.
- 4. On the User Attributes screen, click the System Setup attribute you want to update.
- 5. On the attribute details page, in the **Basic** section, deselect the **Users Can Update** option.
- 6. Click Save.

Delete a user attribute

Note: User attributes use inheritance. To delete an attribute, it must be in the organization where you are performing the delete action. If you do not see the Delete button, verify that you are deleting the attribute from the correct organization level in the enterprise or super enterprise. For more information, see "Manage common content with inheritance" in the *BlackBerry AtHoc Plan and Manage Enterprise Organizations* guide.

If a user attribute becomes obsolete, you can delete it and all records of the attribute that are associated with end users.

When you try to delete a user attribute that is currently being used in alert targeting, alert template targeting, preset response options, dynamic distribution lists, or disable and delete users conditions, a pop-up box appears, listing all locations where the attribute appears. Removing an attribute in a user query can have unintended consequences, such as changing the target audience of an alert. To avoid these effects, you must remove the attribute from each of the dependencies manually before you can delete the attribute itself.

Attributes with custom translations cannot be deleted. Before attempting to delete an attribute, verify that no custom translations are associated with it. Go to \square > Translate Custom Attributes. On the Custom Attributes Translation page, select the attribute from the pull-down list. Remove any text that appears in any Attribute Name or Attribute Tooltip field and then click Save. Text that is part of the system's primary language appears greyed out and cannot be deleted. This text does not prevent the attribute from being deleted.

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click User Attributes.
- **3.** On the **User Attributes** screen, in the **Attribute Name** column, click the name of an attribute that is defined in the organization.
- 4. On the attribute details screen, click Delete.
- 5. On the Delete User Attribute window, click Delete.

Note: If the attribute is being used for alert targeting, preset response options, or any other purpose, you must manually remove the attribute from each dependency before you can access the delete confirmation screen.

The attribute is removed from the system and no longer appears in the User Attributes list.

Clear attribute values for all users

System Administrators can clear the values of some user attributes for all users.

Important: Clearing the values for an attribute cannot be undone.

Before you begin: You must be logged in to the organization where the attribute was created.

- 1. Click Users > User Attributes.
- 2. On the User Attributes screen, click the attribute whose values you want to clear.
- 3. On the attribute details page, in the Bulk Update Values section, click Clear for All Users.
- 4. On the Clear for All Users dialog, click OK.

Translate custom attributes

Enterprise Administrators, Organization Administrators, Alert Managers, and System Administrators can add translation strings for custom attribute names, values, and tooltips in any of the following supported organization locales:

- Deutsch (Deutschland)
- English (UK)
- English (US)
- Español (España)
- Español (México)
- Français (Canada)
- Français (France)
- Italiano (Italia)
- Nederlands (Nederland)
- 1. In the navigation bar, click
- 2. On the Settings screen, in the Users section, click Custom Translation.
- 3. On the Custom Translation screen, in the Translation Type section, select the Attributes option.
- 4. Select an attribute from the Select Attribute list.

- 5. Enter a custom translation for the attribute.
- 6. If the custom attribute has values, select the value from the Attribute Value list.
- 7. Optionally, enter a translation for the attribute tooltip.
- 8. Click Save.

Note: BlackBerry AtHoc does not validate the accuracy of the translation. Verify the accuracy of all translated text before saving.

Automatically disable users based on attributes

In organizations where changes to the user base occur frequently, it is often more efficient to automatically disable users based on one or more user attributes. This helps ensure the user base is kept current and database performance is maximized by reducing the number of active users.

Users can be disabled automatically based on attributes on standalone organizations, enterprise organizations and their suborganizations, and across enterprises and their suborganizations in a super enterprise organization.

For instructions on how to disable users directly from the Users list, see Disable users.

Note:

- · Automatically disabling sponsors also disables their associated dependents users.
- Users who have the "Do Not Disable" option selected in their user profile cannot be automatically disabled.
- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click Disable and Delete Users.
- 3. On the **Disable and Delete Users** screen, in the **Disable Users** section, select the AND/OR operator. When AND is selected, users must meet all conditions to be added. When OR is selected, users that match any of the conditions are added. The default is AND.
- 4. Click the **Select Attribute** drop-down list and select the first attribute to use to identify users to be disabled.
- 5. When you make a selection in the **Select Attribute** drop-down list, the **Select Operation** drop-down list appears. Select an option from the list.
- 6. In the field that appears to the right of the Select Operation field, enter or select a value.

Tip: For Multi-select Picklist, Single-select Picklist, and Status type attributes, enter characters in the search box to filter the list of attribute values. You can enter characters that appear anywhere in the attribute value.

7. Optionally, to add another condition to the list of criteria that must be met for a user to be disabled, click Add Condition and then repeat steps 3 through 6.

Note:

- When the AND operator is selected, if more than one condition appears in the Disable Users section, all conditions must be met for a user to be disabled.
- You can use the User Last Updated by Source attribute to search for and disable users. For more information, see Automatically disable users based on the User Last Updated Source attribute.
- 8. Select Disable users automatically every 7 day(s) to enable a database job that disables users every week.

Note: If you do not select this option, you must navigate to this screen and click **Disable Now** each time you want to disable users.

- 9. Optionally, click Calculate to see the number of users that will be impacted by the criteria you set.
- 10. Optionally, consult the Last Run field to see the date and time the most recent disable action was performed.
- **11.**Optionally, click **Download Log** in the **Last Run Result** field to download a list of users who were disabled during the last disable action.

12.Click Save.

13. Optionally, click Disable Now if you want to disable the list of users immediately.

Automatically disable users based on the User Last Updated Source attribute

Operators can set up rules to automatically disable user accounts based on when a user profile was last updated and by the source that updated the profile. The following table lists the possible sources and the search terms required to search by source.

Source	Search term
Mobile app	 Check-in Check-out Report Emergency User Tracking - Mobile App Mobile
Self Service	SelfService
BlackBerry AtHoc Management System	ManagementSystem
User Sync Client	UserSyncClient
API	API
CSV Import	UserImport
Targeted Device	 Alert Tracking - Desktop Popup Alert Tracking - Email Alert Tracking - Mobile App Alert Tracking - Phone Alert Tracking - Text Messaging

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click Disable and Delete Users.
- 3. On the **Disable and Delete Users** screen, in the **Disable Users** section, select the AND/OR operator. When AND is selected, users must meet all conditions to be added. When OR is selected, users that match any of the conditions are added. The default is AND.
- 4. Click the Select Attribute drop-down list and then select User Last Updated Source.
- 5. Select an operation from the Select Operation list.
- 6. In the blank field that appears, enter the source that you want to disable users by. The text you enter in this field must match one of the search terms listed in the table above. You can add more than one source, separated by a comma. For example, API, UserSyncClient.
- 7. Click Save.

Automatically delete users based on attributes

In organizations where changes to the user base occur frequently, it is often more efficient to automatically delete users based on one or more user attributes.

Users can be deleted automatically based on attributes on standalone organizations, enterprise organizations and their suborganizations, and across enterprises and their suborganizations in a super enterprise organization.

Note:

- Automatically deleting sponsors also deletes their associated dependents users.
- Users who have the "Do Not Delete" option selected in their user profile cannot be automatically deleted.

For instructions on how to delete users directly from the Users list, see Delete users.

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click Disable and Delete Users.
- 3. On the **Disable and Delete Users** screen, in the **Delete Users** section, select the AND/OR operator. When AND is selected, users must meet all conditions to be added. When OR is selected, users that match any of the conditions are added. The default is AND.
- 4. Click the **Select Attribute** drop-down list and select the first attribute to use to identify users to be disabled.
- 5. When you make a selection in the **Select Attribute** drop-down list, the **Select Operation** drop-down list appears. Select an option from the list.
- 6. In the field that appears to the right of the **Select Operation** field, enter or select a value.

Tip: For Multi-select Picklist, Single-select Picklist, and Status type attributes, enter characters in the search box to filter the list of attribute values. You can enter characters that appear anywhere in the attribute value.

7. Optionally, click Add Condition to include another condition that must be met for a user to be deleted.

Note:

- When the AND operator is selected, if more than one condition appears in the Deleted Users section, all conditions must be met for a user to be deleted.
- You can use the User Last Updated by Source attribute to search for and delete users. For more information, see Automatically delete users based on the User Last Updated Source attribute.
- 8. Select Delete users automatically every 7 day(s) to enable a database job that will delete users every week.

Note: If you do not select this option, you must navigate to this screen and click **Delete Now** each time you want to delete users.

- 9. Optionally, click Calculate to see the number of users that will be impacted by the criteria you set.
- 10. Optionally, consult the Last Run field to see the date and time the most recent delete action was performed.
- **11.**Optionally, click **Download Log** in the **Last Run Result** field to download a list of the users who were deleted during the last delete action.
- 12.Optionally, in the **Purge Deleted Users** section, select the **Purge deleted users after** option and select an interval from the pull-down menu to purge deleted users from the system. For more information, see Purge deleted users.
- 13.Click Save.

14.Optionally, click **Delete Now** if you want to delete the list of users immediately.

Automatically delete users based on the User Last Updated Source attribute

Operators can set up rules to automatically delete user accounts based on when a user profile was last updated and by the source that updated the profile. The following table lists the possible sources and the search terms required to search by source.

Source	Search term
Mobile app	 Check-in Check-out Report Emergency User Tracking - Mobile App Mobile
Self Service	SelfService
BlackBerry AtHoc Management System	ManagementSystem
User Sync Client	UserSyncClient
API	API
CSV Import	UserImport
Targeted Device	 Alert Tracking - Desktop Popup Alert Tracking - Email Alert Tracking - Mobile App Alert Tracking - Phone Alert Tracking - Text Messaging

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click Disable and Delete Users.
- 3. On the **Disable and Delete Users** screen, in the **Delete Users** section, select the AND/OR operator. When AND is selected, users must meet all conditions to be added. When OR is selected, users that match any of the conditions are added. The default is AND.
- 4. Click the Select Attribute drop-down list and then select User Last Updated Source.
- 5. Select an operation from the Select Operation list.
- 6. In the blank field that appears, enter the source to use to delete users. The text you enter in this field must match one of the search terms listed in the table above. You can add more than one source, separated by a comma. For example, API, UserSyncClient.
- 7. Click Save.

Automatically delete disabled users

Users can be deleted automatically based on the Status attribute

Note:

- Automatically deleting sponsors also deletes their associated dependents users.
- Users who have the "Do Not Delete" option selected in their user profile cannot be automatically deleted.

For instructions on how to delete users directly from the Users list, see Delete users.

- 1. In the navigation bar, click 🔯.
- 2. In the Users section, click Disable and Delete Users.

- 3. On the **Disable and Delete Users** screen, in the **Delete Users** section, select the AND/OR operator. When AND is selected, users must meet all conditions to be added. When OR is selected, users that match any of the conditions are added. The default is AND.
- 4. Click the Select Attribute drop-down list and select the Status attribute.
- 5. Select Equals from the Select Operation pull-down list.
- 6. In the field that appears to the right of the Select Operation field, select Disabled from the pull-down list.
- 7. Select Delete users automatically every 7 day(s) to enable a database job that will delete users every week.

Note: If you do not select this option, you must navigate to this screen and click **Delete Now** each time you want to delete users.

- 8. Optionally, click Calculate to see the number of users that will be impacted by the criteria you set.
- 9. Optionally, consult the Last Run field to see the date and time the most recent delete action was performed.
- **10.**Optionally, in the **Purge Deleted Users** section, select the **Purge deleted users after** option and select an interval from the pull-down menu to purge deleted users from the system. For more information, see Purge deleted users.
- 11.Click Save.

Configure an Organizational Hierarchy attribute

Organizational Hierarchy attributes define organizational hierarchies that can be selected as alert or event targets. Organizational hierarchies are commonly created by integrating an external user directory, such as LDAP or Microsoft Active Directory.

You can also create an organizational hierarchy by importing it from a CSV file. For more information, see Import an organizational hierarchy.

The BlackBerry AtHoc User Sync Client creates the organizational hierarchy from LDAP. If you are using the User Sync Client and you want make changes to the organizational hierarchy manually, those changes may be lost when the next user synchronization occurs.

The organizational hierarchy attribute is not available in super enterprise or enterprise organizations. Organizational hierarchy attributes are available only in suborganizations or standalone organizations.

If you update an existing organizational hierarchy and a mapped node is not included in the new hierarchy, any user that is mapped to the excluded node is automatically mapped to the root node. Users can be mapped to the correct node by using a new organizational hierarchy during a user import or user sync.

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Attributes.
- 3. On the User Attributes screen, click Organizational Hierarchy. The Organizational Hierarchy details page opens.
- 4. Optionally, select Users Can Update if users need to modify the value.
- 5. Optionally, select **Mandatory** if the attribute is a required field in the user profile. If this check box is selected, users must select a node in the organizational hierarchy, and cannot select the root directory.
- 6. In the Values section, click Add Node to add a new node to the organizational hierarchy. If no nodes are selected, the new node is added to the bottom of the organizational hierarchy. Select an existing node and click Add Node to add a new node under it.
- 7. Type the node name in the new field and press **Enter**. The node name has a 128 character limit and cannot contain comma (,) characters.
- 8. Optionally, to move a node, drag the node to the new location.
- 9. Optionally, to edit a node name, double-click on the node name and type your changes.
- 10.Optionally, to delete a node, select the name and click Delete Node.
- **11.**Optionally, to revert your changes, click **Remove Changes**.

12.Click Save.

All new and modified nodes are displayed in italics until saved.

Note: When you make changes to the organizational hierarchy, you must click **Save** to save your changes. If you navigate to another page, your changes are not saved. If you attempt to export the organizational hierarchy before saving, your changes are not exported.

Import an organizational hierarchy

You can create a new organizational hierarchy or update an existing one using an import CSV file. Include the hierarchical node in the Node Name column and the path in the Node Path column of the import file.

Tip: To modify an existing organizational hierarchy, follow the steps in Export an organizational hierarchy, save and update the downloaded CSV file, then import the updated organizational hierarchy.

- The import CSV file must have the two required columns Node Name and Node Path.
- Both required columns must contain a value. Empty cells in the CSV file will result in an error.
- The import process replaces the existing organizational hierarchy.
- Do not include double slashes (//) in the node path or node name.
- Do not include commas (,) in the node name.
- Do not include duplicate records in the import CSV file.
- The first level of each path should be the root node and represented as a forward slash (/).
- · Up to 30 levels are allowed in one node path.
- Up to 500 nodes can be imported in a single import.
- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click Users > User Attributes.
- 3. On the User Attributes screen, find and click the Organizational Hierarchy attribute.
- 4. On the Organizational Hierarchy screen, in the Values section, click Import.
- 5. Optionally, on the Import Organizational Hierarchy screen, click Download Template CSV file or View Instructions.
- 6. On the Import Organizational Hierarchy screen, click Browse, then browse to and select the CSV import file.
- 7. Click Import.
- 8. When the import is complete, the Import Organizational Hierarchy results window opens. Click Close or Download Log.
- 9. Click Save.

When you make changes to the organizational hierarchy, you must click **Save** to save your changes. If you navigate to another page, your changes are not saved. If you attempt to export the organizational hierarchy before saving, your changes are not exported.

Export an organizational hierarchy

To update an existing organizational hierarchy, you can export it to a CSV file, make updates, and then import the file.

- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click Users > User Attributes.
- 3. On the User Attributes screen, find and click the Organizational Hierarchy attribute.
- 4. On the Organizational Hierarchy screen, in the Values section, click Export to CSV.

Any changes you make to the organizational hierarchy must be saved before you export the organizational hierarchy.

A CSV file containing the organizational hierarchy is downloaded to your local computer.

Create a dynamic hierarchy attribute

Create a dynamic hierarchy attribute when you have multiple levels of values (nodes) that are connected. For example: State, City, and Work Location. When an operator or end user selects a dynamic hierarchy attribute, they can step through a selection of levels (nodes) within the attribute. When a user selects an attribute node, the next available selections are dependent on the selected node. The following is a sample dynamic hierarchy attribute used in a user profile:



You must be an Enterprise Administrator, Organization Administrator, Alert Manager or Advanced Alert Manager to create or manage a dynamic hierarchy attribute.

Dynamic hierarchy attributes can be used in these areas:

- · User Details pages in the BlackBerry AtHoc management system
- My Profile pages in Self Service
- · Advanced queries when selecting targeted users in an alert or alert template
- · Advanced queries when selecting affected users in an accountability event or template
- · Advanced queries when selecting an accountability officer in an accountability template
- · Accountability event summaries
- · Advanced queries in the Users manager
- · Advanced queries for selecting operators in a static distribution list
- Selecting membership criteria for a dynamic distribution list
- · Configuring automatic deletion or disabling of users
- · Configuring user base restrictions

Dynamic hierarchy attributes cannot be used as response options.

When you try to delete a dynamic hierarchy attribute that is currently being used, a pop-up box appears, listing all areas where the attribute is in use. You must remove the attribute from each of the dependencies manually before you can delete the attribute itself.

Deleting levels and nodes from a dynamic hierarchy attribute can be done only from the bottom up.

Level and node names can be updated. When a level or node name is changed, it is updated automatically anywhere the attribute is being used.

Bulk-clear for all users is available for dynamic hierarchy attributes.

1. In the BlackBerry AtHoc management system, click Users > User Attributes.

- 2. On the User Attributes screen, click New > Dynamic Hierarchy.
- 3. On the New Attribute screen, in the Name field, enter the name that will be displayed when the attribute appears in lists or fields in the BlackBerry AtHoc management system or Self Service. The attribute name has a 128 character limit.
- 4. Optionally, enter text in the Tooltip, Help Text, and Common Name fields. For details, see Create a user attribute.
- 5. Optionally, select Users Can Update and Mandatory as needed. For details, see Create a user attribute.
- 6. In the Create and Modify Hierarchy section, click Add Level. You can add up to 8 levels.
- 7. In the Add Level Name field, enter a name. Level names must be unique.
- 8. In the **Create and Modify Hierarchy** section, click **Add Node** to add a new node to the hierarchy. Select an existing node and click **Add Node** to add a new node under it.
 - A maximum of 500 nodes can be added per level.
 - Nodes names must be unique.
 - Node names have a 50 character limit and cannot contain double slashes (//).
 - All new and modified nodes are displayed in italics until saved.
- 9. Optionally, to edit a node name, double-click on the node name and type your changes.
- 10. Optionally, to delete a node, select the name and click Delete Node.
- **11.**Optionally, to revert your changes, click **Remove Changes**.
- 12.Click Save.
- 13. Repeat steps 6-12 to add additional levels and nodes.
- **14.**Optionally, click **Import Hierarchy** to import the attribute values from a CSV file. The import CSV file must include columns for the node paths and node names. Each column must include a value. The first level in each path must be the root node and represented with a forward slash (/.)
- 15. Optionally, click Export to CSV to export the attribute values to a CSV file.
- **16.**Optionally, in the **Page Layout** section, select the pages and sections where the user attribute appears. For each page listed in the section, click the drop-down list and select the location the user attribute appears or select **Do not show** to avoid having it appear anywhere on the corresponding page.
- 17.Optionally, in the **Personnel Reports** section, select the **Enabled** option and then enter a name and description. The report is available to view in **Reports** > **Personnel**.
- 18.Click Save.

Create a Geo-aware Single-select Picklist attribute

Create a geo-aware single-select picklist attribute to enable geo-targeting of users on the live and publisher maps without the need to import and define shape layers. Administrators create geo-aware single-select picklist attributes and define a specific geolocation by entering a physical address or location coordinates in the POINT(longitude/latitude) or latitude,longitude format. Operators can draw a custom shape on the map (or select a predefined shape) and target users that have selected that location in their user profile in the BlackBerry AtHoc management system or Self Service.

Geo-aware single-select picklist attributes can be edited by end users or operators, found in advanced searches, and used as response options.

Bulk-clear for all users is available for geo-aware single-select picklist attributes.

- 1. In the BlackBerry AtHoc click Users > User Attributes.
- 2. On the User Attributes screen, click New > Geo-aware Single-select Picklist.

- 3. On the New Attribute screen, in the Name field, enter the name that will be displayed when the attribute appears in lists or fields in the BlackBerry AtHoc management system. The attribute name has a 128 character limit.
- 4. Optionally, enter text in the **Tooltip**, **Help Text**, and **Common Name** fields. For details, see Create a user attribute.
- 5. Optionally, select Users Can Update, Mandatory, and Use as a Response Option as needed. For details, see Create a user attribute.
- 6. In the Values section, click Add value.
- 7. In the Value field, enter a value that a user can select from a pull-down list.
- 8. In the **Geo location** field, enter a real physical address or location coordinates in the POINT(longitude/latitude) or latitude,longitude format.
- 9. Click Save.
- 10. Repeat steps 6-9 to add additional values. Up to 2000 values can be added.
- **11.**Optionally, click **Import Values** to import the attribute values from a CSV file. The import CSV file must include columns for the value names and geo location values. You can elect to replace current values for the attribute with the values in the import CSV file. Due to validation of individual geolocation entries in the CSV import file, importing many values will take time.
- 12.Optionally, in the Page Layout section, select the pages and sections where the user attribute appears. For each page listed in the section, click the drop-down list and select the location the user attribute appears or select Do not show to avoid having it appear anywhere on the corresponding page.
- **13.**Optionally, in the **Personnel Reports** section, select the **Enabled** option and then enter a name and description. The report is available to view in **Reports** > **Personnel**.
- 14.Click Save.

Manage user authentication

Note: Do not modify the following settings without first consulting BlackBerry AtHoc customer support.

The user authentication settings establish the login protocol and user authentication rules used for BlackBerry AtHoc.

Enable authentication methods

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click User Authentication.
- **3.** On the **User Authentication** window, in the **Enabled Authentication Methods** section, select the check boxes beside the authentication methods you want to use in the BlackBerry AtHoc management system.

The following authentication methods are available:

- LDAP Attribute: Applicable for the desktop app only.
- Smart Card: When this option is selected, the operator must select a valid certificate on their device.

Note: Selecting this option does not enable Smart Card authentication for the BlackBerry AtHoc management system. To configure Smart Card authentication for the BlackBerry AtHoc management system, go to **Settings > Setup > Security Policy**.

- **Username and Password**: When this option is selected, you can also enable two-factor authentication for operators and Self Service. For more information, see Enable two-factor authentication.
- Windows Authentication: Select an option to authenticate with a username only, or with a domain and username.
- Single Sign-On (SSO): Enable single sign-on. This option is not available for the desktop app.
- 4. Click Save.

Note: The options selected in this section determine the options available for selection in the Assign Authentication Methods to Applications section.

Assign authentication methods to applications

You can specify the authentication method to use for the mobile app, desktop app, Self Service, and the BlackBerry AtHoc management system.

Mobile app

- 1. In the navigation bar, click
- 2. In the Users section, click User Authentication.
- **3.** On the **User Authentication** screen, in the **Assign Authentication Methods to Applications** section, select one of the following authentication methods for mobile app from the **Authentication Method** list:
 - Smart Card: This option enables smart card authentication. When smart card authentication is enabled, when an operator starts the alert publishing, report summary, or accountability officer respond-on-behalf-of-others (ROBO) flows, a window appears for the operator to select a valid certificate. The certificate must already be present on the operator's device. When a valid certificate is selected, the operator can then complete the flow. If the selected certificate is not valid, the operator is redirected to the username and password login screen. When the operator selects a valid certificate, they are redirected to the mobile

app to complete the flow. If the selected certificate is not valid, or the smart card authentication fails, the operator is redirected to authenticate using their username and password.

• Username and Password: This option requires operators to authenticate using their BlackBerry AtHoc username and password.

Note: This section appears only when the mobile app gateway is enabled and configured.

4. Optionally, select the Create New User if an Account is not Found option.

Note: When this option is enabled, user profiles are created automatically using the mobile app. In this case, the provided email is used as the username. If users are then created by other means such as CSV import, API, or the User Sync Client, and email is not used for the username, duplicate users may be created.

5. Click Save.

Desktop app

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Authentication.
- **3.** On the **User Authentication** screen, in the **Assign Authentication Methods to Applications** section, select one of the following authentication methods for the desktop app from the **Authentication Method** list:
 - LDAP Attribute: This option enables the desktop app to authenticate with an Active Directory attribute.
 - **a.** Enter an Active Directory attribute in the **Attribute** field. The desktop app queries this attribute directly from the signed-in user's directory profile and sends it to the server. This option allows the desktop app to operate while sending less user information to the server. When this option is selected, the desktop app does not send Windows user names or domain names in sign on or check update query strings.
 - b. Optionally, enter a valid LDAP URL in the Custom LDAP URL field. When a custom LDAP URL is specified, it overwrites the USERDOMAIN value from the local LDAP directory. Format the domain name using a regex to accept only URLs such as LDAP://<DOMAINNAME>.<TOP-LEVELDOMAIN>:<(Optional) PORT#>. Sample valid URLs:
 - LDAP://DC=examplewebsite,DC=com
 - LDAP://examplewebsite.com
 - LDAP://DC=examplewebsite,DC=com,DC=org
 - · LDAP://examplewebsite.ca
 - c. Optionally, select Fallback to Windows Authentication to configure the desktop app to authenticate with Windows Authentication if authentication with LDAP fails. This option appears only if Windows Authentication is selected in the Enable Authentication Methods section.
 - Smart Card: This option enables smart card authentication.
 - Select the number of client certificates to collect from the **Number of Certificates** pull-down list. The recommended value is 3.
 - Optionally, in the **Regular Expression** field, enter a regular expression in the following format: UID=(? <edipi>\d{8,10}). Contact BlackBerry AtHoc customer support to configure this field.
 - Optionally, in the **Client Regular Expression** field, enter a client regular expression in the following format: .*?(^)(?:(?!\s-[A||E||S]).)*. This format extracts information from the client certificate subject name to find the identical certificates for authentication. The regular expression provided in the UI is a sample expression that may not be suitable for your environment. You can build you own regular expression or contact BlackBerry AtHoc customer support to configure this field.
 - Optionally, in the Custom Attributes field, add custom attributes to the CAC certificate. Add multiple
 attributes separated by a comma. There is a 100 character limit. The special characters < and > are not
 supported.
 - Optionally, select **Create new user if an account is not found** to configure the desktop app to create a user at sign on if the user does not already exist.

- **Defer to Self Service**: This option requires users to sign in using a registration window determined by the authentication type configured for Self Service.
 - If the Self Service authentication method is set to Username and Password, the users sees a registration window and must provide their first name, last name, username, password, confirm their password, and fill in a captcha. The user has the option to register as a new user or to sign in with their existing user credentials.
 - If the Self Service authentication method is set to Smart Card, the user sees a CAC Certificate selection screen and must pick a certificate.
 - If the Self Service authentication method is set to Windows Authentication, the user sees a Windows credentials screen and must provide their username and password.
 - If the Self Service authentication method is set to Single Sign-On, the user is sent to a configured external URL for single sign-on.
- **Windows Authentication**: This option configures the desktop app to use only the Windows username or to use both the Windows username and the domain.
- 4. If LDAP Attribute, Smart Card, or Windows Authentication is selected, you can select **Create new user if an account is not found** to configure the desktop app to create a user at sign on if the user does not already exist.
- 5. Click Save.

Self Service

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click User Authentication.
- **3.** On the **User Authentication** screen, in the **Assign Authentication Methods to Applications** section, select one of the following authentication methods for Self Service from the **Authentication Method** list:
 - Smart Card: This option enables smart card authentication. Select the number of client certificates to collect. The recommended value is 3.
 - **Username and Password**: This option requires users to sign in to Self Service using their BlackBerry AtHoc username and password.
 - Windows Authentication: This option configures Self Service to use only the Windows username or to use both the Windows username and the domain.
 - **SSO Single Sign-On (SSO)**: This option enables the use of an external URL for single sign-on. For more information, see Enable single sign-on as an authentication method.
- 4. Optionally, if you selected Single Sign-On as the authentication method, select Username and Password from the Alternative Authentication Method list. This option enables both SSO and Username/Password to be used for user authentication.
- 5. Optionally, if you selected Username and Password as the authentication method, select any of the following options:
 - Option to Save Username on User's Computer.
 - Self Registration for New Users: Select this option to enable new users to self register for Self Service. Click Modify Fields to select the attributes and personal devices that are used as fields on the Registration screen. On the Self Registration fields dialog, add or remove fields. The Username and Password fields are included by default and cannot be removed. You can add up to 8 additional fields. If you include an email field, the Use Email as Username option appears.
 - Use Email as Username: Select this option to require that users enter an email address when registering for Self Service. This email address is used as their username. Select an email from the Select Email Device pull-down menu. Only Email fields selected in the Self Registration fields dialog are available for selection.
- 6. Click Save.

BlackBerry AtHoc management system

- 1. In the navigation bar, click 🖾.
- 2. In the Users section, click User Authentication.
- **3.** On the **User Authentication** screen, in the **Assign Authentication Methods to Applications** section, select one of the following authentication methods for Management System from the **Authentication Method** list:
 - **Username and Password**: This option requires users to sign in to the BlackBerry AtHoc management system using their BlackBerry AtHoc username and password. This option is selected by default and cannot be deselected.
 - Single Sign-On: This option enables the use of an external URL for single sign-on. When this option is
 selected, the Sign In URL is auto populated. If an organization code is available, the URL format is: <server>/
 client/organization-code. If an organization code is not available, the URL format is: <server>/client/providerID. For more information, see Enable single sign-on as an authentication method.

4. Click Save.

Note: Smart Card authentication does not appear in the **Authentication Method** list. To enable Smart Card Authentication for the BlackBerry AtHoc management system, go to **Settings > Setup > Security Policy**. For more information about Smart Card Authentication, see the *BlackBerry AtHoc Smart Card Authentication* guide and "Enable operator login using smart cards" in the *BlackBerry AtHoc System Settings and Configuration* guide.

Configure SDK access security

The SDK Access Security setting allows you to specify a list of IP addresses that are authorized to call the SDK. If no IP addresses are specified, any computer can send API requests (subject to username and password restrictions.) Each API request must include a username and password to provide secure access to the API and to define the rights of specific API requests.

You must have the required operator role to submit an API request. For more information, see the BlackBerry AtHoc Roles and Permissions Matrix.

- 1. In the navigation bar, click 🔛.
- 2. In the Users section, click User Authentication.
- 3. On the User Authentication screen, scroll down to the SDK Access Security section.
- 4. In the Allowed IP Addresses field, enter a list of IP addresses, separated by commas, that are authorized to access the SDK.
- 5. Click Save.

Enable two-factor authentication

You can require all end user or operators in your organization to use two-factor authentication when logging in with a username and password to Self Service or to the BlackBerry AtHoc management system.

When two-factor authentication is enabled for your organization, when a user or operator logs in, they first enter their username and password. They are then presented with a screen to select a verification code delivery method (email, text, or phone.) The user or operator then receives a verification code on their selected device which they enter to continue the login process.

The verification code expires if not used after five minutes. If the verification code expires, or the user or operator does not enter the verification code correctly, they can request a new verification code. If the user or operator attempts to log in with a second verification code, they will need to fill in a captcha field. They can request up to three verification codes. If a user or operator requests more than three verification codes, they are returned

to the login page, and an unsuccessful login attempt is logged. This may result in the user or operator account becoming locked if they exceed the number of login attempts defined in the organization's security policy settings.

- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click 🔛.
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication screen, in the Enabled Authentication Methods section, select the Username and Password Enable option.
- 5. In the Two-Factor Authentication section, select the Require for Operators and Require for Self Service options as needed.
- 6. Select one or more methods from the Verification Code Delivery Methods list.
- 7. Beside Users Unable to Log In, click Calculate to see the number of users who do not have any selected delivery methods. If you enable two-factor authentication, users who do not have one of the selected delivery methods will not be able to log in to Self Service.
- 8. Optionally, click User(s) to open the Users Unable to Log In window, where you can see which users will not be able to log in. You can export this list to a CSV file, add any missing delivery method information, and import the updated information into the BlackBerry AtHoc system.
- 9. Click Save.

Enable single sign-on as an authentication method

The Single Sign-On feature is not enabled by default. A System Administrator must enable SSO in the Feature Enablement settings in the BlackBerry[®] AtHoc[®] management system. For more information, see "Enable and disable features" in the *BlackBerry AtHoc System Settings and Configuration* guide.

When SSO is enabled for your organization, if your users are already authenticated and signed in using your identity provider (IDP), they do not need to sign in again to access the BlackBerry AtHoc management system or Self Service.

BlackBerry AtHoc supports SAML (Security Assertion Markup Language) version 2.0.

Note: SSO is supported on the desktop app when the authentication method is set to "Defer to Self Service" and Self Service is enabled for SSO.

If a user is not signed in, they are redirected to their organization's customer IDP login when they attempt to sign in. This IDP is managed by your organization or by a third party vendor that provides IDP services. The IDP authenticates the user. The user is then redirected to BlackBerry AtHoc. If the user is already signed in to the IDP, they are automatically redirected to the BlackBerry AtHoc management system or Self Service with an active session.

You must be an Organization Administrator, Enterprise Administrator, or System Administrator to enable single sign-on as a user authentication method.

- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click 🔛.
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication window, in the Enabled Authentication Methods section, select the Single Sign-On (SSO) Enable check box.
- 5. Click Save.

Enable single sign-on for Self Service

1. Log in to the BlackBerry AtHoc management system as an administrator.

- 2. In the navigation bar, click 🔛.
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication window, in the Assign Authentication Methods to Applications section, in the Self Service section, select Single Sign-On from the Authentication Method list. The Sign In URL field is auto populated with a URL in the following format: <server>/selfservice/organization-code. This URL is used when users attempt to access Self Service using SSO authentication.
- 5. Optionally, if you selected Single Sign-On as the authentication method, select Username and Password from the Alternative Authentication Method list to enable both SSO and Username/Password user authentication.

Note: When an alternative authentication method is added, the Self Service sign-in URL is appended with /sso for single sign-on authentication. For example, *<server>/selfservice/organization-code/sso*.

6. Click Configuration.

Note: If the **Configuration** button is not available, SSO is not enabled. For more information, see Enable single sign-on as an authentication method.

7. On the Self Service SSO configuration window, export SP and IDP settings and then import IDP settings.

Note: You can also configure the IDP and SP settings manually. For more information, see Configure identity provider settings and Configure service provider settings.

- 8. Click Apply.
- 9. Click Save.

Enable single sign-on for the BlackBerry AtHoc management system

- 1. Log in to the BlackBerry AtHoc management system as an administrator.
- 2. In the navigation bar, click 🔛.
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication window, in the Assign Authentication Methods to Applications section, in the Management System section, select Single Sign-On from the Authentication Method list. The Sign In URL field is auto populated with a URL in the following format: <server>/client/organization-code. This URL is used when a user attempts to access the BlackBerry AtHoc management system using SSO authentication.

Note: If the **Authentication Method** list is disabled, SSO is not enabled. For more information, see Enable single sign-on as an authentication method.

- 5. Click Configuration.
- 6. On the Management system SSO configuration window, export SP and IDP settings and then import IDP settings.

Note: You can also configure the IDP and SP settings manually. For more information, see Configure identity provider settings and Configure service provider settings.

- 7. Click Apply.
- 8. Click Save.

Import a service provider certificate

Import a BlackBerry AtHoc signed service provider certificate for use in Single Sign-On (SSO.) This enables administrators to select a BlackBerry AtHoc certificate instead of uploading and maintaining a custom SP certificate.

You must be a System Administrator to import a service provider certificate.

- 1. Log in to the BlackBerry AtHoc management system as a system administrator.
- 2. Change to the System Setup (3) organization.
- 3. In the navigation bar, click 🔛.
- 4. In the Setup section, click Security Policy.

- 5. On the Security Policy page, in the Service Provider Certificate section, click Import Certificate.
- 6. On the Import Certificate window, enter a valid password for the service provider certificate.
- 7. Click **Browse** and navigate to and select a valid BlackBerry AtHoc certificate. Only .pfx and .p12 files can be imported.
- 8. Click Import.
- 9. On the Security Policy page, click Save.

Configure identity provider settings

The identity provider (IDP) provides authentication for users. The service provider (SP), in this case BlackBerry AtHoc or Self Service, requests authentication from the IDP.

When SSO is enabled for access to the BlackBerry AtHoc management system or Self Service, when a user logs in, they are redirected to their organization's IDP for authentication. If the user is already logged in to the identity provider, the authentication request is processed and sent to the service provider, and the user is granted access without the need to log in again.

- **1.** Log in to the BlackBerry AtHoc management system as an Organization Administrator or Enterprise Administrator.
- 2. Click 🔛.
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication page, in the Assign Authentication Methods to Applications section in the Self Service or Management System section, click Configuration.

Note: If the **Configuration** button is not available, SSO is not enabled. For more information, see Enable single sign-on as an authentication method.

- 5. Do one of the following:
 - Import IDP settings.
 - On the Management system SSO configuration or Self Service SSO configuration window, in the Identity **Provider** section, configure the following **General Settings**.
 - a. Identity Provider Name: Each SAML configuration is identified by a unique identity provider name. This name is internal to the configuration and is not exposed to partner providers. This field is required only when there are multiple SAML configurations. Enter a name that is a minimum of three characters and a maximum of 512 characters. The following special characters are not allowed: `!?"<>!\$%&^()={;;\:?"<>
 - **b.** Sign On Service URL: Enter the URL of the location of the identity provider's SSO service where SAML authentication requests are sent as part of a SP-initiated single sign-on.
 - c. Sign On Service Binding: Optionally, select Redirect or POST as the transport mechanism (SAML binding) to use when sending SAML authentication requests to the partner identity provider. The default setting is Redirect.
 - d. Logout Service URL: The URL of the local service provider's single log out service where SAML logout messages are received. If single logout is not required, leave this field blank. For more information, see SSO logout service.
 - e. Logout Service Binding: Optionally, select Redirect or POST as the transport mechanism (SAML binding) to use when sending SAML authentication requests to the partner identity provider. The default setting is Redirect.
 - f. Artifact Resolution Service URL: Optionally, enter an artifact resolution service URL. The service provider uses the Artifact Resolution Protocol to exchange an artifact for the actual SAML message referenced by the artifact.
 - g. Artifact Resolution Service Binding: Optionally, select SOAP, POST, REDIRECT or ARTIFACT as the transport mechanism (SAML binding) to use when sending SAML authentication requests to the partner identity provider. The default is SOAP.

- h. Name ID Format: Optionally, select Email Address, Persistent, or Transient as the format to be used by the SP and IDP to identify a subject name identifier.
- i. User Mapping Attribute: Optionally, select the attribute that identifies the user. This attribute is retrieved from the SAML assertion metadata. The default is **Subject Name**.
- j. Attribute Name: Enter the name of the attribute used to identify the user.
- 6. Configure the following Security Settings:
 - a. SAML Response Signature: Select Signed or Unsigned. When Signed is selected, SAML responses sent to the partner service provider must be signed. Sending signed authentication requests is highly recommended, but optional.
 - **b.** Assertion Signature: Select Signed or Unsigned. When Signed is selected, SAML assertions sent to the partner service provider must be signed.

Note: You must select Signed for either SAML Response Signature or Assertion Signature or both.

Note: You must have a valid certificate installed for your organization.

- c. Signature Algorithm: Select an algorithm. The default is RSA-SHA256.
- **d.** Assertion Encryption: Select Encrypted or Unencrypted. When Encrypted is selected, SAML assertions sent to the partner service provider must be encrypted.
- e. If Assertion Encryption is set to Encrypted, select an Assertion Algorithm. The default setting is AES128.
- f. In the Certificate* field, click Browse to navigate to and select a certificate file. Only .cer and .crt files are supported.
- 7. Optionally, add the following Additional information:
 - a. Company Name: Enter a name that is a minimum of three characters and a maximum of 512 characters. The following special characters are not allowed: `!?"<>!\$%&^()={;;\:?"<>
 - **b.** Company Display Name: Enter a name that is a minimum of three characters and a maximum of 512 characters. The following special characters are not allowed: `!?"<>!\$%&^()={;;`!?"<>
 - c. Company URL
 - d. Contact Person Name
 - e. Role or Department
 - f. Email Address
 - g. Telephone Number
- **8.** Do one of the following:
 - If you are modifying an existing SSO configuration, click **Apply**, and then click **Save** on the **User Authentication** page.
 - For a new SSO configuration, configure Service Provider settings.

Configure service provider settings

- **1.** Log in to the BlackBerry AtHoc management system as an Organization Administrator or Enterprise Administrator.
- 2. Click 🔛
- 3. In the Users section, click User Authentication.
- 4. On the User Authentication page, in the Assign Authentication Methods to Applications section in the Self Service or Management System section, click Configuration.
- 5. In the Management system SSO configuration or Self Service SSO configuration window, scroll down to the Service Provider section.
- 6. Configure the following General Settings:
 - a. Service Provider Name: Enter the name of the service provider that sends the SAML authentication request. Enter a name that is a minimum of three characters and a maximum of 512 characters. The following special characters are not allowed: `!?"<>!\$%&^()={;;\:?"<>

- **b.** Assertion Consumer Service URL: This field is pre-populated with the service provider's endpoint URL that receives the SAML from the identity provider. The assertion consumer service URL is appended with the organization code. For example:
 - Self Service URL: https://domain/SelfService/Account/NewSSO/organization-code
 - BlackBerry AtHoc management system: https://domain/Client/organization-code
- **c.** Logout Service URL: This field is pre-populated with the URL of the service provider's endpoint that receives SAML log out messages. For more information, see SSO logout service.
- d. Custom Logout URL: Optionally, enter a custom URL to redirect users to at logout.
- e. Custom Logout Service Binding: Optionally, select POST or Redirect as the transport mechanism (SAML binding) to use when sending SAML authentication requests to the partner IDP. The default setting is POST.
- 7. Configure the following Security Settings:
 - a. SAML Request Signature: Select Signed or Unsigned. When Signed is selected, SAML authentication requests received from the partner service provider must be signed. Receiving signed authentication requests is optional, but highly recommended.
 - b. If SAML Request Signature is set to Signed, select a Signature Algorithm. The default setting is RSA-SHA256.
 - c. In the Certificate* section, do one of the following:
 - Select Use BlackBerry Certificate to use the signed BlackBerry certificate.

Note: A system administrator must upload a valid BlackBerry signed certificate for this option to appear.

- Select Use Custom Certificate and click Import Certificate. On the Import Certificate window, enter a password and click Browse. Navigate to and select a valid certificate file. Click Import. Only .pfx and .p12 file types are supported.
- 8. Click Apply.
- 9. On the User Authentication page, click Save.

SSO logout service

If the logout URL is configured in the identity provider settings, the following steps terminate the active user session:

- 1. The end user initiates a logout request at a service provider.
- 2. The service provider forwards the logout request to an identity provider.
- 3. The identity provider validates the logout request.
- **4.** The identity provider sends a logout request for the user to all other service providers that the identity provider is aware of that the user has an active security session with.
- 5. The identity provider terminates the user's sessions and sends a response to the original service provider.
- 6. The original service provider informs the user that they have been logged out.

If the logout URL is displayed in the Service Provider settings, the following steps terminate the active user session:

- 1. The end user initiates a logout request at a service provider.
- 2. The service provider terminates any of the user's active sessions that are handled by a third-party service.
- 3. The service provider forwards the logout request to the logout URL.

If the logout URL is not configured for either for identity provider or the service provider, when a user requests a logout, the service provider terminates the user's active session and displays the login page (for the BlackBerry AtHoc management system) or the sign out page (for Self Service.)

The following table describes the log out flows for the BlackBerry AtHoc management system:

Log out type	Initiator	IDP logout URL included	Custom logout URL available	Log out behavior
Sign out or session timeout	SP	Yes	Yes	The IDP session is terminated. The end user is signed off locally and redirected to their organization's SSO login URL. The IDP logout URL is used.
Sign out or session timeout	SP	Yes	No	The IDP session is terminated. The end user is signed off locally and redirected to their organization's SSO login URL. The IDP logout URL is used.
Sign out or session timeout	SP	No	Yes	The end user is signed off locally and redirected to the custom logout URL.
Sign out or session timeout	SP	No	No	The end user is signed off locally and redirected to the organization's SSO login URL.
Session timeout	IDP	Yes	Yes	The IDP session is terminated. The end user is signed off locally and redirected to the manual login page with a Session Timeout message.
Session timeout	IDP	Yes	No	The IDP session is terminated. The end user is signed off locally and redirected to the manual login page with a Session Timeout message.

Log out type	Initiator	IDP logout URL included	Custom logout URL available	Log out behavior
Sign out or session timeout	IDP	No	Yes	The IDP session is terminated. The end user is signed off locally and redirected to the custom logout URL.
Session timeout	IDP	No	No	The end user is signed off locally and redirected to the manual login page with a Session Timeout message.
Sign out	IDP	Yes	Yes	The IDP session is terminated. The end user is signed off locally and redirected to the manual login page.
Sign out	IDP	Yes	No	The IDP session is terminated. The end user is signed off locally and redirected to the manual login page.
Sign out	IDP	No	No	The end user is signed off locally and redirected to the manual login page.

The following table describes the log out flows for Self Service:

Log out type	Initiator	IDP logout URL included	Custom logout URL included	Log out behavior
Sign out or session timeout	SP	Yes	Yes	The IDP session is terminated. The end user is signed off locally and redirected to the sign out page.

Log out type	Initiator	IDP logout URL included	Custom logout URL included	Log out behavior
Sign out or session timeout	SP	Yes	No	The IDP session is terminated. The end user is signed off locally and redirected to the sign out page.
Sign out or session timeout	SP	No	Yes	The end user is signed off locally and redirected to the custom URL.
Sign out or session timeout	SP	No	No	The end user is signed off locally and redirected to the sign out page.
Sign out or session timeout	IDP	Yes	Yes	The IDP session is terminated. The end user is signed off locally and redirected to the sign out page. The Go To Login button is not visible.
Sign out or session timeout	IDP	Yes	No	The IDP session is terminated. The end user is signed off locally and redirected to the sign out page. The Go To Login button is not visible.
Sign out or session timeout	IDP	No	Yes	The end user is signed off locally and redirected to the custom URL.
Sign out or session timeout	IDP	No	No	The end user is signed off locally and redirected to the sign out page.

Export SP and IDP settings

When you configure single sign-on, you can export settings data from the IDP and SP instead of manually entering this information.

- On the Management System SSO configuration or Self Service SSO configuration window, in the Identity
 Provider section, in the General Settings section, click Export. The IDP settings are downloaded to an .xml file.
 Browse to select a location on your local computer to save the file.
- 2. On the Management System SSO configuration or Self Service SSO configuration window, in the Service Provider section, in the General Settings section, click Export.

Note: Password and private key information is excluded from service provider metadata exports.

The SP settings are downloaded to an .xml file. Browse to select a location on your local computer to save the file.

3. Click Save.

Import IDP settings

When configuring SSO, you can export and then import settings data from the IDP instead of manually entering this information.

- 1. On the Management System SSO configuration or Self Service SSO configuration window, in the Identity **Provider** section, in the General Settings section, click Import.
- 2. On the **Import Identity Provider Configuration** window, click **Browse** to select the .xml file that contains your IDP configuration.
- 3. Click Open.
- **4.** Click **Import**. The fields in the Identity Provider section are populated with the data from the imported .xml file. If any fields were filled in before the import, they are over-written. If the .xml file contains any invalid fields, an error is displayed and no settings are imported.
- 5. Click Apply.

Import an existing IDP configuration

If you have an existing database-driven implementation of SSO and want to migrate to the improved userinterface based SSO solution, you can migrate the settings configuration from your IDP and import it into the BlackBerry AtHoc management system.

Contact your account representative or BlackBerry AtHoc customer support to obtain a copy of the Utilities.zip file needed to perform an SSO migration.

Note: Only IDP configurations can be imported. The SP configuration must be entered manually in the BlackBerry AtHoc management system. See Configure service provider settings.

1. Open a Windows command prompt and navigate to the following folder:

<installed-directory>\AtHocENS\ServerObjects\Tools\SSO\EasyConnect

2. Run the following command to create and export a SAML metadata XML file:

```
ExportMetadata.exe -partner <name> [-config <directoryName] [-baseurl <url>] [-
file <filename>]
```

where:

- partner <name >: The name of the partner IDP configured in the idp-partner.config file or the partner SP configured in the sp-partner.config file.
 - If you specify a partner IDP, the corresponding local SP metadata is generated for the partner IDP.
 - If you specify a partner SP, the corresponding local IDP metadata is generated for the partner SP.
- [-baseurl <*url*>]: Specify the directory that contains the EasyConnect configuration files. If you do not specify this directory, the export defaults to C:\EasyConnect\EasyConnectServer.

• [-file <*filename* >]: Optionally, specify the name of the generated SAML metadata file. By default, the export uses the file name metadata.xml.

Examples:

- ExportMetadata.exe –partner ExampleIdentityProvider
- ExportMetadata.exe –partner ExampleIdentityProvider -config "specify SSO config directory"**
- ExportMetadata.exe –partner ExampleIdentityProvider -config "specify SSO config directory" -baseurl "HTTPS://www.showcase.com"*
- ExportMetadata.exe –partner ExampleIdentityProvider config "specify SSO config directory" -baseurl "HTTPS://www.showcase.com" -file "<File path>"**
- **3.** Log in to the BlackBerry AtHoc management system and use the SSO IDP import feature to import the IDP metadata. See Export SP and IDP settings and Import IDP settings.

Enable SSO certificate revocation list checking

When single sign-on is enabled for your organization, a CRL is maintained. A CRL is a list of digital certificates that have been revoked and should not be trusted. If CRL checking is enabled, BlackBerry AtHoc checks the CRL before initiating a SAML authentication request to an identity provider or after receiving an SAML response from the IDP.

- 1. In the navigation bar, click 🖾.
- 2. In the Setup section, click Security Policy.
- 3. In the SSO CRL (Certificate Revocation List) Settings section, select the Enable CRL Checking option.

Note: If the **SSO CRL (Certificate Revocation List) Settings** section is not visible, single sign-on is not enabled. See Enable single sign-on for Self Service and Enable single sign-on for the BlackBerry AtHoc management system.

- **4.** In the **CRL Timeout Interval** field, enter the number of seconds to allow for certificate validation information to be retrieved from the CA. The minimum is 1 and the maximum is 60 seconds. The default is 20 seconds.
- **5.** Optionally, select the **Ignore Verification Errors** option. If this option is selected, a certificate that fails verification will continue to be used and an error is logged. If this option is not selected, any certificate that fails verification is not used.
- 6. Click Save.

BlackBerry AtHoc Customer Support Portal

BlackBerry AtHoc customers can obtain more information about BlackBerry AtHoc products or get answers to questions about their BlackBerry AtHoc systems through the Customer Support Portal:

https://www.blackberry.com/us/en/support/enterpriseapps/athoc

The BlackBerry AtHoc Customer Support Portal also provides support via computer-based training, operator checklists, best practice resources, reference manuals, and user guides.

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