

Automatically Update Cases



This feature requires a **CommCare Software Plan**

This feature (Automatically Close Cases) is only available to CommCare users with a **Pro Plan** or higher. For more details, see the [CommCare Software Plan page](#).

- [Overview](#)
- [Rules](#)
 - [Creating a New Rule](#)
 - [Case Filter Criteria](#)
 - [Actions](#)
 - [Running a Rule](#)
 - [Managing Rules](#)
- [Case References](#)
- [Reporting and Case Actions](#)
 - [Reversing a Rule](#)

Overview

This feature allows users with Edit Data access (see [CommCareHQ Web Users](#)) to configure updates to cases, including the ability to close cases. Without this feature, the only ways to close cases are by filling out a form that closes a case, finding the case in the Case List and manually using the Close Case button, or by using the [Importing Cases Using Excel](#) tool.

Note that automatic update rules will only trigger on cases that are currently **open**. If a case has already been closed, it will not be updated by a rule, even if it otherwise matches the filter criteria.

Here are some examples of when this is useful:

- Automatically closing and removing stale cases from users' phones
- Regularly closing cases that have a specified combination of case properties (for example, a case updated by two apps where both users' protocols are completed)

Cases are closed by creating **rules**.

The basic process of defining a rule is:

1. Define all of the criteria for the cases you want to match.
2. Choose all of the actions to apply to the cases that match the criteria.

Rule List

Navigate to **Data** **Automatically Updates Cases**, you will see a list of all rules for the project along with the name, case type, status, and last time the rule has run to completion.

Dashboard Reports **Data** Users Applications Web Apps Messaging

Data > Automatically Update Cases

EXPORT DATA

- Export Form Data
- Export Case Data
- Export SMS Messages
- Find Data by ID
- Daily Saved Exports
- Excel Dashboard Integration
- PowerBI/Tableau Integration

EDIT DATA

- Reassign Cases
- Import Cases from Excel
- Manage Forms
- Automatically Update Cases**

LOOKUP TABLES

- Manage Tables
- View Tables

Automatically update and close cases from CommCareHQ

Create rules for closing cases from CommCareHQ. All rules run every day at midnight GMT. For more information, see the [Help Site](#).

[+ Add Automatic Case Update Rule](#)

Previous 1 Next

Name	Case Type	Status	Last Run	Action
Case Close	Pregnancy	Active	2020-10-29 05:30:01	Deactivate Delete
Remove Stale Cases	Patient	Active	-	Deactivate Delete

Show 10 rules per page

Previous 1 Next

If "Last Run" is not updated, it means that the rule has not yet run or did not run to completion on its last run. The completion could not have succeeded due to exceeding the maximum number of automatic updates per day (10,000), due to exceeding the max run time (24 hours), or that there was an error during the run.

Automatically update and close cases from CommCareHQ

Create rules for closing cases from CommCareHQ. All rules run every day at midnight GMT. For more information, see the [Help Site](#).

[+ Add Automatic Case Update Rule](#)

Previous **1** Next

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Show 10 rules per page

Previous **1** Next

Rules

Creating a New Rule

For example, imagine that you want to close any "Patient" cases which have not been updated in a year. You want to do this to reduce the caseload on the users' phones and to keep the reports accurate.

1. You can create a rule by navigating to **Data Automatically Update Cases + Add Automatic Case Update Rule** button:

The screenshot shows the application's navigation menu with 'Data' selected. Under 'Data', 'Automatically Update Cases' is highlighted. The main content area shows the 'Automatically update and close cases from CommCareHQ' page, which includes a table of existing rules and a '+ Add Automatic Case Update Rule' button.

2. Fill out the basic information by giving the rule a name you can use to remember what it's for:

Basic Information

Name*

3. Choose the "Case Type" and "Run when". "ALL of the criteria are met" works when you want to apply all your filter criteria. "ANY of the criteria are met" works only when you want **ANY** of the filter criteria to apply in the Auto Update Cases.

The Actions will be performed for all open cases that match all filter criteria below.

Rule Criteria

Case Type*

Run when

contact

contact

+ Select a filter

Actions

+ Add Action

Save

4. Next, add your filter criteria which define the cases that the rule will apply to. Notice that the wording "AND" "OR" next to the rule filter changes with the button.

When selecting the Case Property filter, a data list will be displayed as you begin typing. This will search the applications [Data Dictionary](#), and allow you to select the relevant Case Property.

a. Notes:

- i. Projects without the Data Dictionary flag will see a plain text field instead of a data list.
- ii. The field will also accept free text if the Data Dictionary is out-of-date.
- iii. The data list **only** retrieves project-defined case properties, from the Data Dictionary. The list will not contain System Properties, but this will be added at a future date.

5. And lastly, specify the actions that will be applied to the cases that match these criteria. These actions say to close the case and update case property "close_reason", setting it to the value "automatic" and save.

Case Filter Criteria

The following filter criteria are available for matching cases:

- **Case Type** - is always a required part of the criteria. Select the case type of the cases you want to update or close, and if you want to match more than one case type, you will need to create a rule for each case type.
- **Case Not Modified Since** - specify the number of days elapsed since the date the case was last modified. This last modified date is based on the time the last form to update the case was received (server time).
- **Case Property** - this filter allows you to match case property equality, inequality, or that a case property has a value.
- **Date Case Property** - this filter allows you to match when the current date comes after or before a date in a case property.
- **Date Case Property (advanced)** - this filter is similar to the Date Case Property filter, only it lets you add or subtract an offset to the value in the date case property before comparing to the current date. This filter could also be set up to be logically identical to the *Case Not Modified Since* filter by configuring it to 'when the current date is greater than the date in the case property *modified_on* plus X days', where *modified_on* corresponds to the case metadata property *last_modified*. However, for this purpose, *Case Not Modified Since* is advised instead for the sake of simplicity.
- **Parent Case is Closed** - this filter lets you match cases whose parent case is closed.

NB: It is possible to reference parent/master case properties in any of the case property filters. The syntax follows the convention of "parent /<case_property>" or "host/<case_property>". Possible use case: Close the growth monitoring case when the parent (i.e., person case) turns 6.5 years old.

Actions

The following actions can be performed on cases that match the filter criteria:

- **Close the case** - all cases that match the filter criteria will be closed when this action is chosen.

- **Update case property** - you can choose to update a case property with or without closing the case. If you are closing the case, this may be useful to specify why the case was closed for future data analysis. If you choose to update a case property, you also can set it to either an exact value or set it to the value from another case property. It is also possible to reference parent/amster case properties in any of the actions. the syntax follows the convention of "parent/<case_property>" or "host/<case_property>".

Running a Rule

Rules run automatically every day at Midnight GMT. You cannot choose when a rule is run.

Managing Rules

You can update, delete, or deactivate a rule at any time from the list of rules.

Case References

In addition to the dynamic case properties created by your app(s), you can reference the following case properties in automatic update rule criteria:

Case Property	Description
name	The case's name
owner_id	The system identifier for the case's owner
opened_on	The timestamp that the case was opened
opened_by	The system identifier for the case's opener
modified_on	The timestamp that the case was last modified on mobile
server_modified_on	The timestamp that the case was last modified on the server
external_id	An optional external id your app may assign to the case

Parent cases may also be referenced in the automatic update rule criteria by prefixing the property name with "parent/". So, for example, parent/name references the parent case's name.

Reporting and Case Actions

The case close action shows up in the case history as a form submission. You can view the form that closed the case by looking in the Submit History report or the Manage Forms tool. The form will also show up in the Case History of any cases closed by a rule. In the case history for the form name will show up as "Unknown" and the user as "system":

Case Properties		Case History	
Received (EST)	Form	User	
2015-12-15 13:47	unknown	system	>
2015-3-24 11:41	Form	324bug	>

1-2 / 2 10 / page

Reversing a Rule

If a rule ran and closed cases and you want to undo that action, you should go to **Manage Forms** or **Submit History** report, locate the form submission that closed the cases, and archive it. This will restore the case to its prior status. For more information on archiving forms, please see [Archive Forms](#).

To find the forms, you will want to use the following filters:

Report Filters

User(s)

[See Filter Definitions.](#)

Advanced Search: Put your location name in quotes to show only exact matches. To more easily find a location, you may specify multiple levels by separating with a "/". For example, "Massachusetts/Suffolk/Boston"

Filter Forms

Application

Show Advanced Options

Filter Dates By

Completion time is when the form is completed on the phone.

Submission time is when CommCare HQ receives the form.

Date Range

This report's timezone is UTC.

Apply

Favorites ▼

Save...

You can add the filter options in the following order:

1. Choose [admin], [Web Users] and [Unknown Users]
2. For application: select "Show all forms of this Application Type..."
3. Run the search, and the case update rule form will be listed as "http://commcarehq.org/hq_case_update_rule"