

# Webhooks

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## What are Webhooks?

Webhooks are automated messages, data, and commands sent from an app to a web repository when an event is triggered.

Webhooks can be sent from *CoreOne for Labs* to a **“Receiving URL”** when any specified trigger events are initiated.

You can think of them as push notifications.

## Webhooks v APIs

Webhooks are similar to APIs—but simpler, instantaneous, and automated.

During the early days of email, you had to check to see if you received anything. Now, however, you get a push notification when an email is delivered to your inbox. The push notification contains some or all of the email data so you can determine how urgent it may be. This is why using webhooks is more efficient than an API for events in *CoreOne for Labs*.

For example, when a new accession is created, a webhook can submit desired accession data to another system. Rather than hitting the server 720 times an hour for a 5 second refresh rate to ask if there is new data, data can be instantaneously submitted/transmitted when it occurs (3-5 times per hour on avg).

## Implementing Webhooks for CoreOne for Labs

For example, when a new accession record is created, a webhook is triggered. The specified data from the newly created accession record would be sent to the receiving URL. Once the data submission is validated, it is delivered as designed.

1. Set up a secret and a **“Receiving URL.”** The secret validates incoming webhook data.
2. Tell *CoreOne for Labs*/the webhook when and where to send the specified data. For example, every time a new accession is created, send accession #, x, y, z to **“Receiving URL.”**
3. Send a test.
4. Do something with the data submission: slack notification, data to another app, etc.

# Configuration

You need to specify [WebhookURL](#) and [WebhookSecret](#)

All Webhooks are sent to the configured [WebhookURL](#) - if there are some you aren't interested in, you should just ignore them.

The [WebhookURL](#) will receive an HTTP/HTTPS POST from CoreOne for Labs

- The message body will contain a JSON packet. It will contain a hash which varies depending on the specific Webhook as described in the section below.
- A HTTP header called X-Coreone-Webhook-Type will be provided, indicating the type of Webhook that has been triggered; these are detailed below.
- A HTTP header called X-Coreone-Webhook-Hash will also be provided. This allows you to verify that the message hasn't been tampered with. It is a hex digest of the JSON data sent in the body of the webhook. It is calculated using HMAC with SHA-256 hash function with the key being the value stored in [WebhookSecret](#).

## Available Webhooks

### Accession

**accession/status\_change** This webhook is fired when an accession's status has been changed.

**accession/client\_change** This webhook is fired when an accession's client has been changed.

**accession/receive** This webhook is fired when an accession has been marked as 'Received'.

### Accession Lab Section

**accession\_lab\_section/create** This webhook is fired when an accession has been assigned a lab section.

**accession\_lab\_section/destroy** This webhook is fired when an accession's lab section has been removed.

**accession\_lab\_section/release** This webhook is fired when an accession's lab section has been released for review.

**accession\_lab\_section/unrelease** This webhook is fired when an accession's lab section has been unreleased.

### Attachment

**attachment/fail** This webhook is fired when an attachment's processing has failed.

**attachment/process** This webhook is fired when an attachment has been processed successfully.

## Client

**client/create** This webhook is fired when a new client has been created.

**client/destroy** This webhook is fired when a client record has been deleted.

**client/update** This webhook is fired when a client record has been updated. This includes when the client's credit status has been updated.

## Clinical Histories

**clinical\_histories/create** This webhook is fired when the clinical history has been entered for an animal.

**clinical\_histories/destroy** This webhook is fired when the clinical history of an animal has been deleted.

**clinical\_histories/update** This webhook is fired when the clinical history of an animal has been edited.

## Comment

**comment/create** This webhook is fired when a new comment has been added to an accession.

**comment/destroy** This webhook is fired when a comment has been deleted from an accession.

**comment/update** This webhook is fired when a comment has been edited.

## Credit Note

**credit\_note/create** This webhook is fired when a credit note has been created.

## HL7 Message

**hl7message/fail** This webhook is fired when an HL7 message's processing has failed.

**hl7message/process** This webhook is fired when an HL7 message has been processed successfully.

## Instrument

**instrument/fail** This webhook is fired when an instrument message's processing has failed.

**instrument/generate\_instrument\_file** This webhook is fired when a user in the UI generates an instrument file. This file contains *only* the instrument name and filename of the generated order file.

**instrument/process** This webhook is fired when an instrument message has been processed successfully.

**instrument/request\_instrument\_file** This webhook is fired when a user in the UI generates an instrument file. This file contains the exact parameters the user requested to be further used with the API endpoint `/api/v1/instruments/generate_file` to generate an order file.

## Invoice

**invoice/client\_change** This webhook is fired when the client on an invoice has been changed.

**invoice/close** This webhook is fired when an invoice has been closed.

**invoice/create** This webhook is fired when a new invoice has been created.

## Leaf

**leaf/fail** This webhook is fired when an incoming scan has been processed but has not been automatically matched to an accession.

**leaf/match** This webhook is fired when an incoming scan has been processed and matched with an accession because it had a *CoreOne for Labs* barcode which was successfully identified.

## NAHLN

**nahln\_transmission/fail** This webhook is fired when a NAHLN transmission's processing has failed.

**nahln\_transmission/process** This webhook is fired when a NAHLN transmission has been processed successfully.

## Payment

**payment/create** This webhook is fired when a payment has been made.

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