

# Zero-tap authentication templates | Developer Documentation

## Zero-tap authentication templates

Updated: Feb 6, 2026

**Upcoming deprecation:** Starting **April 15, 2026**, the `PendingIntent`-based handshake method for authentication templates will be deprecated. If you are currently using `PendingIntent` to initiate handshakes or verify app identity, the [OTP Android SDK](#) is the preferred way to migrate.

Zero-tap authentication templates allow your users to receive one-time passwords or codes via WhatsApp without having to leave your app.

When a user in your app requests a password or code and you deliver it using a zero-tap authentication template, the WhatsApp client simply broadcasts the included password or code and your app can capture it immediately with a broadcast receiver.

From your user's perspective, they request a password or code in your app and it appears in your app automatically. If your app user happens to check the message in the WhatsApp client, they will only see a message displaying the default fixed text: *< code > is your verification code*.

Like one-tap autofill button authentication templates, when the WhatsApp client receives the template message containing the user's password or code, we perform a series of eligibility checks. If the message fails this check and we are unable to broadcast the password or code, the message will display either a one-tap autofill button or a copy code button. For this reason, when you create a zero-tap authentication template, you must include a one-tap autofill and copy code button in your post body payload, even if the user may never see one of these buttons.

Note: The OTP Android SDK features a simplified workflow for implementing one-tap and zero-tap authentication templates. You can learn how to use it below.

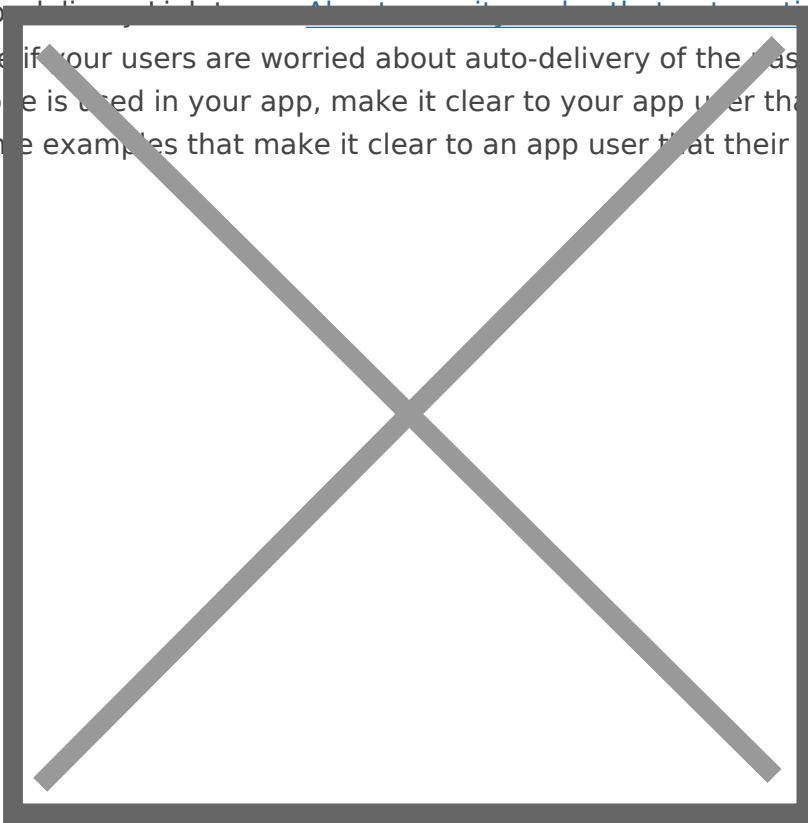
## Limitations

Zero-tap is only supported on Android. If you send a zero-tap authentication template to a WhatsApp user who is using a non-Android device, the WhatsApp client will display a copy code button instead.

URLs, media, and emojis are not supported.

## Best practices

Do not make WhatsApp your default password/code delivery method. Make it clear to your app users that the password or code will be automatically delivered to your app when they select WhatsApp for delivery. [Automatically fill on WhatsApp help center article](#) if your users are worried about auto-delivery of the password or code. After the password/code is used in your app, make it clear to your app user that it was received successfully. Here are some examples that make it clear to an app user that their code will automatically appear



in the app.

## App signing key hash

You must include your app signing key hash in your post body.

To calculate your hash, follow Google's instructions for [computing your app's hash string](#).

Alternatively, if you follow Google's instructions and download your app signing key certificate (step 1), you can use your certificate with the [sms\\_retriever\\_hash\\_v9.sh](#) shell script to compute the hash. For example:

```
./sms_retriever_hash_v9.sh --package "com.example.myapplication" --keystore  
~/.android/debug.keystore
```

## Supported apps

The `supported_apps` array allows you define pairs of app package names and signing key hashes for up to 5 apps. This can be useful if you have different app builds and want each of them to be able to initiate the handshake:

Alternatively, if you are using Graph API version 20.0 or older and have only a single app, you can define the app's package name and signing key hash as `buttons` object properties, but this is not recommended as we will stop supporting this method starting with version 21.0:

# Error signals

See [Error Signals](#) that can help with debugging.

## Handshake ID Error Codes

The following error codes may be returned when using the SDK with handshake ID validation:

Error Code	Description
<code>HANDSHAKE_ID_MISSING</code>	The handshake ID was not included in the intent from WhatsApp
<code>HANDSHAKE_ID_INVALID_FORMAT</code>	The handshake ID is not a valid UUID format
<code>HANDSHAKE_ID_MISMATCH</code>	The handshake ID in the intent does not match the expected value

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