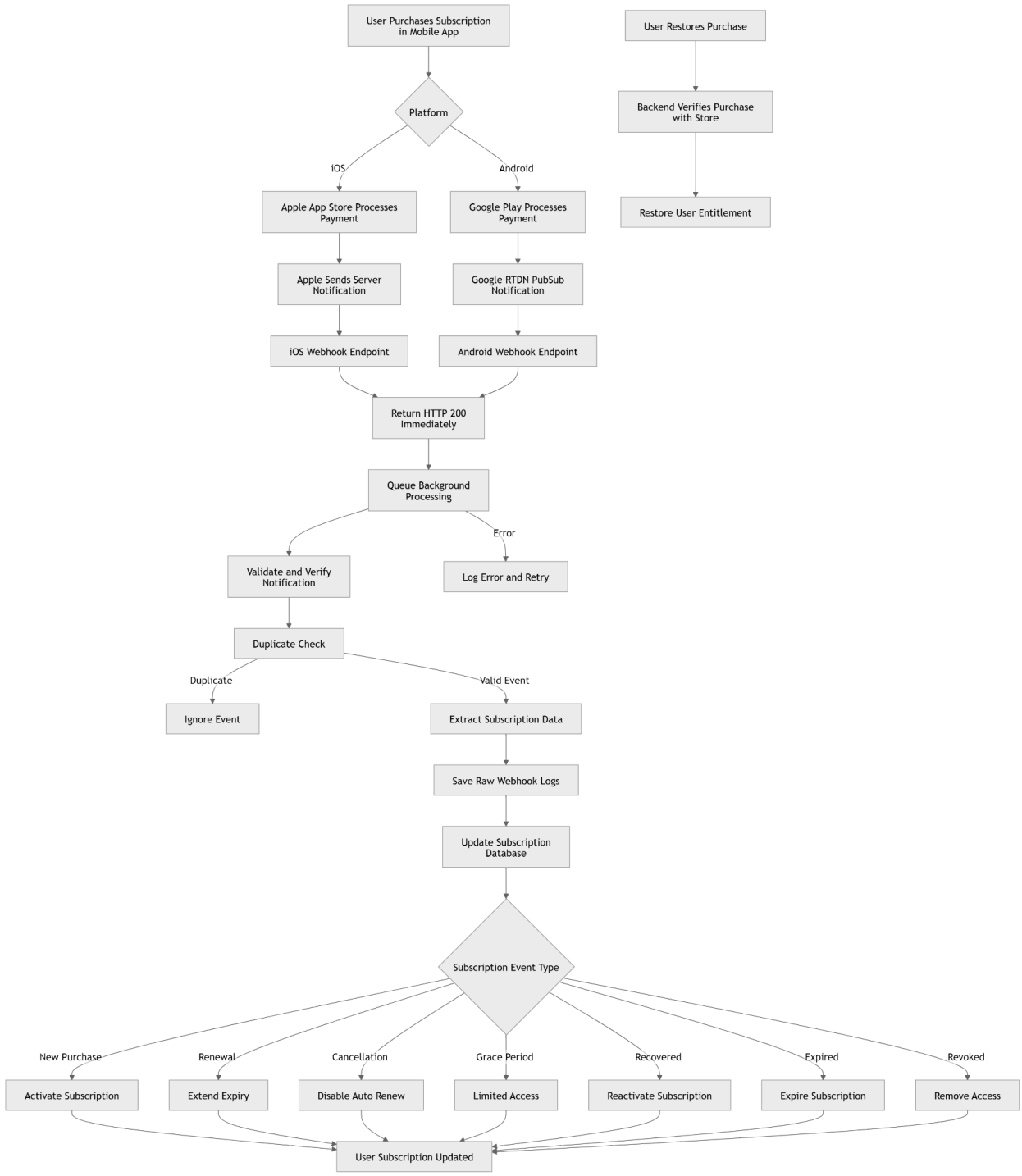
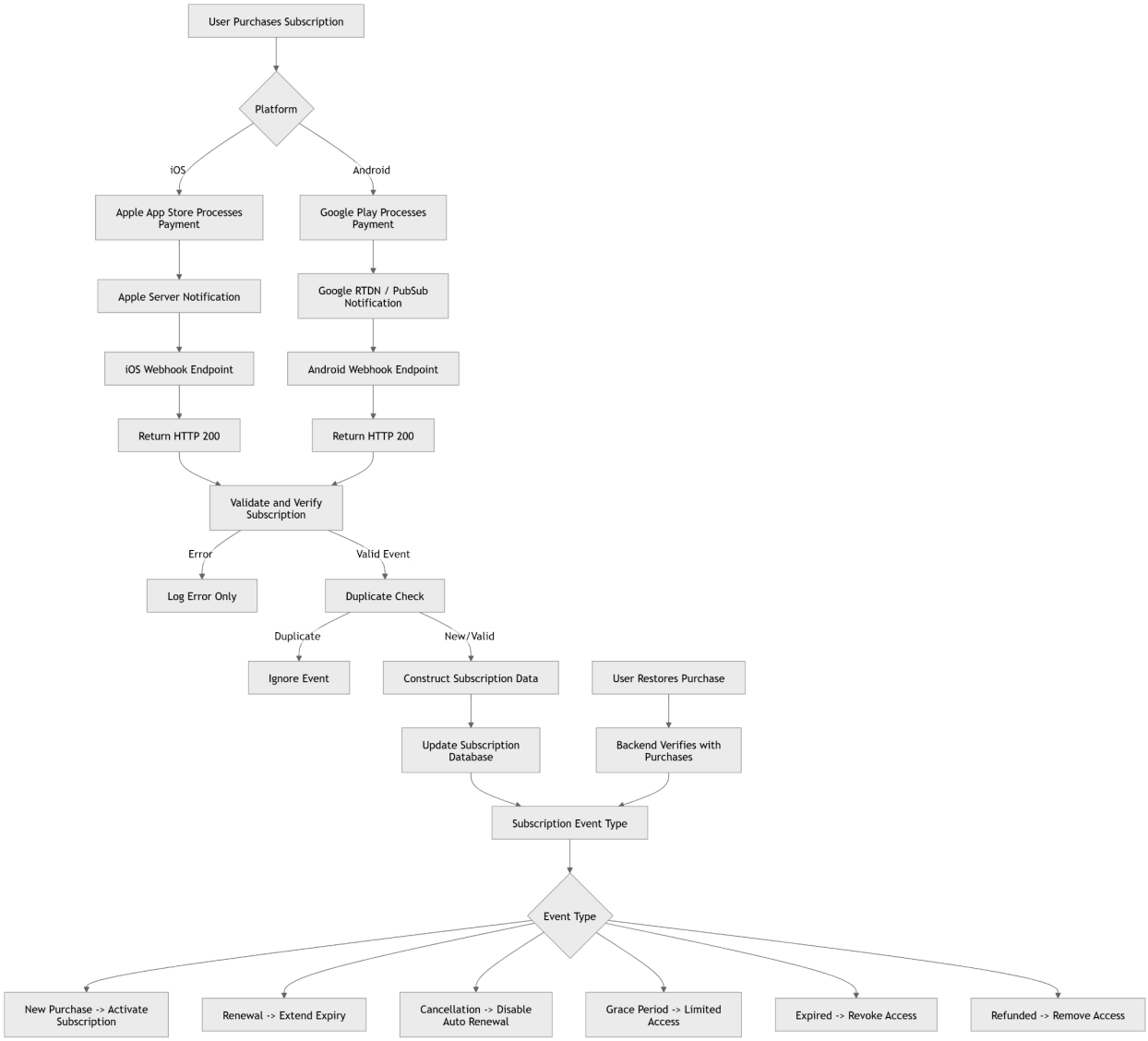
Include flow chart for the high level implementation (include db, mobile app, API, Webhook, etc)





(Revised Final Flow)

Steps

Setup Subscription in Stores

↓

Mobile App
• User selects subscription plan
• iOS sends appAccountToken
• Android sends obfuscatedAccountId

↓

Apple App Store / Google Play Store
• Store processes payment securely
• Handles:
  - New Purchase
  - Renewal
  - Trial
  - Cancellation
  - Expiration
  - Restore Purchase

↓

Webhook Sent to Backend API
• Apple → App Store Server Notification
• Google → RTDN (Pub/Sub Notification)

↓

Validate & Verify Transaction
• iOS:
  - Verify JWT signature
  - Validate Apple certificate

• Android:
  - Verify purchaseToken using Google Play Developer API

↓

Extract Important Information
• UserId
• ProductId
• TransactionId / OrderId
• Purchase Date
• Expiration Date
• Subscription Status
• Auto Renew Status

↓

Check Duplicate Processing (Idempotency)
• Prevent duplicate webhook processing

• iOS:
  - Check NotificationUUID

• Android:
  - Check MessageId
  - Check PurchaseToken

↓

Save Webhook Record
• Save webhook payload into database

• iOS Table:
  [Subscription].[AppStoreWebhooks]

• Android Table:
  [Subscription].[PlayStoreWebhook]

↓

Process Subscription Logic
• Handle:
  - First Purchase
  - Trial Start
  - Renewal
  - Cancellation
  - Re-subscribe
  - Expiration
  - Grace Period
  - Payment Failure
  - Restore Purchase

↓

Update UserSubscriptions Table
• Update:
  - Subscription Status
  - Expiration Date
  - Auto Renew Setting
  - Trial Information

• Table:
  [Subscription].[UserSubscriptions]

↓

Logging & Error Handling
• Save webhook JSON logs

Example:
user123_ios_20260430_143025.json

↓

App Access Control
• Active Subscription → Full Access
• Trial Subscription → Trial Access
• Grace Period → Limited Access
• Expired Subscription → Restricted Access
• Cancelled Subscription → Access Until Expiry

Complete Implementation Steps

Phase 1 — Store Setup

Apple App Store

1. Go to App Store Connect → enable App Store Server Notifications v2
2. Add webhook URL: `https://yourdomain.com/webhook/ios`
3. Create subscription products (e.g. `com.newStarterPlan`) → submit for review
4. Generate App-Specific Shared Secret
5. Create Sandbox Tester account for testing

Google Play Store

1. Create Pub/Sub Topic in Google Cloud Console
2. Create Push Subscription → endpoint: `https://yourdomain.com/webhook/android`
3. Grant publish permission to `google-play-developer-notifications@system.gserviceaccount.com`
4. Link Pub/Sub topic in Play Console → Real-time developer notifications
5. Enable Google Play Android Developer API
6. Create Service Account → download JSON key → grant Finance permission in Play Console
7. Create subscription products (e.g. `com.sub3`)
8. Add License Tester account for testing

Phase 2 — Database Setup

1. Create schema `Subscription`
2. Run table scripts in order:
    - `AppStoreWebhooks`
    - `PlayStoreWebhook`
    - `UserSubscriptions`
    - `WebhookProcessingErrors`

Phase 3 — Mobile App Setup

1. Integrate StoreKit (iOS) and Google Play Billing Library (Android)
2. On subscribe:
    - iOS → pass `appAccountToken` = userId (UUID format)
    - Android → pass `obfuscatedAccountId` = userId
3. Handle success/failure response from the store in the app
4. Implement Restore Purchase flow on both platforms

Phase 4 — Backend API Setup

1. Create two webhook endpoints:
    - `POST /webhook/ios`
    - `POST /webhook/android`
2. Both must return HTTP 200 immediately
3. Set up file system folders:
    - `/logs/ios/` and `/logs/android/`
    - `/errors/ios/` and `/errors/android/`
4. Set up Play Developer API client using service account JSON key

---

Phase 5 — Webhook Processing Logic

Build this flow in order:

1. Log raw payload to file → `{userId}_{platform}_{yyyyMMdd_HHmmss}.json`
2. Duplicate check
    - iOS: check `NotificationUUID` in `AppStoreWebhooks`

    - Android: check `MessageId` in `PlayStoreWebhook`
    - If duplicate → return 200, stop
3. Android only → call `purchases.subscriptionsv2.get` using `purchaseToken`
4. Validate & extract
    - UserId, TransactionId, ProductId, ExpiryDate, NotificationType
    - On failure → save to `WebhookProcessingErrors` + write to `/errors/`
5. Save raw webhook to `AppStoreWebhooks` or `PlayStoreWebhook`
6. Route by notification type → update `UserSubscriptions`

Event	iOS	Android	Action
New purchase	`SUBSCRIBED/INITIAL_BUY`	type 4	Insert, Status = active
Renewal	`DID_RENEW`	type 2	Update ExpirationDate
Resubscribed	`SUBSCRIBED/RESUBSCRIBE`	type 7	Reactivate
Cancelled	`AUTO_RENEW_DISABLED`	type 3	AutoRenewEnabled = false
Re-enabled	`AUTO_RENEW_ENABLED`	—	AutoRenewEnabled = true
Expired	`EXPIRED`	type 13	Status = expired
Grace period	built-in	type 6	Limited access
Account hold	built-in	type 5	Restrict access
Recovered	`DID_RECOVER`	type 1	Status = active
Revoked	`REVOKE`	type 12	Revoke access

Phase 6 — Trial Logic *(pending Apple approval)*

1. Detect trial from notification type
2. Set `Status = trial` in `UserSubscriptions`
3. Save trial start & expiry dates
4. Grant full or limited access per policy
5. Schedule jobs:
    - Notify user before trial ends

    - Notify user after trial ends
6. On payment failure after trial:
    - Apply grace period with limited access
    - If still unpaid → cancel subscription

Phase 7 — Error Handling

1. Wrap all webhook processing in try/catch
2. On error:
    - Insert into `WebhookProcessingErrors`
    - Write error file to `/errors/{platform}/`
3. Always return HTTP 200 to the store regardless of errors
4. Set up retry mechanism for failed DB operations

Phase 8 — Testing

1. iOS — use Sandbox Tester account on test device

    - Test: new purchase, renewal, cancel, expire, restore
    - Verify webhooks hit your endpoint
    - Check `AppStoreWebhooks` and `UserSubscriptions` are updated
2. Android — use License Tester account

    - Test: new purchase, renewal, cancel, expire
    - Verify Pub/Sub messages reach your endpoint
    - Check Play Developer API call returns correct data
    - Verify acknowledgement happens within 3 days
3. Duplicate test — send same webhook twice → confirm second one is ignored

4. Error test — send malformed payload → confirm error is logged correctly

---

Phase 9 — Go Live

1. Switch Apple webhook URL to production
2. Switch Google Pub/Sub push endpoint to production
3. Replace Sandbox credentials with Production credentials
4. Monitor `/errors/` folder and `WebhookProcessingErrors` table closely for first 48 hours

5. Confirm first real purchase flows end-to-end correctly

Pending / Follow-ups

- Agree on grace period policy (how many days, what access level)

In App Purchase Document

1. User Identification

- Each mobile app user is assigned a unique user identifier stored in db.

2. Subscription Initiation (iOS & Android)

- When a user attempts to activate a subscription:
  - The app sends the user identifier to the respective app store:
    - iOS: `appAccountToken`
    - Android: `obfuscatedAccountId`

3. Store Processing

- The mobile app relies on the native store accounts (Apple App Store / Google Play) to handle the transaction.
- Once the transaction is completed:
  - Status can be Success or Failure tbc
    Post API for backend/Rely on Webhook
    Make sure to handle duplication, idempotency

4. Webhook Notification (iOS & Android)

- Both stores send a server-to-server notification (webhook) including:
  - Transaction details
  - User identifier (Received in API but there is no Webhook for it as its a non-consumable type)

  First webhook will save in respected

- [Subscription].[AppStoreWebhooks]/[Subscription].[PlayStoreWebhook]
  [Subscription].[UserSubscriptions]
  [Subscription].[WebhookProcessingErrors]

5. Webhook Handling

- Upon receiving the webhook:

  a. Logging

  - Log each webhook payload
  - Store logs in a designated folder path
  - File naming convention:
    [useridentifierbystore]_[platform]_[YYYYMMDD_HHMMSS]

    Example:
    user123_ios_20260430_143025.json

- b. Validation & Data Extraction

  - Validate the request and extract relevant data:
    - User identifier
    - Payment status
    - Transaction details
    - Platform-specific data:
      - iOS:
        - Receipt ID
        - Manufacturer (Apple)
        - Package ID
      - Android:
        - Invoice ID
        - Product ID
- c. Trial Handling

  - Execute additional logic if the subscription is a trial (if applicable)

<u>If subscription is in trial:</u>

- **<u>Provide full or limited access based on trial scope</u>**
- **<u>Track trial start and expiry dates</u>**
- **<u>Send notifications before and after trial expiry</u>**

<u>Post-trial handling:</u>

- **<u>If payment fails after trial, follow payment failure rules</u>**
- **<u>Either cancel the subscription after failed attempts or apply a defined grace period with limited platform access (as per policy.</u>**

6. Database Operations

- Save the transaction record in:

        - [Subscription].[AppStoreWebhooks]/[Subscription].[PlayStoreWebhook]
    - Update the user's subscription status in:
        - `[User Subscriptions Table]` [Subscription].[UserSubscriptions]
        - If error came then [Subscription].[WebhookProcessingErrors].

6. Restore Purchase -> Api call from app to inform its completed.

[TLDR]

-> Sample Webhook Response For Trial (iOS)


```
{
  "Notification": {
    "NotificationType": "SUBSCRIBED",
    "Subtype": "INITIAL_BUY",
    "NotificationUUID": "6794b5a6-cfcc-4819-ba3e-add5f59c17fa",
    "Version": "2.0",
    "SignedDate": "2026-05-22T14:25:52.3+00:00"
  },
  "Data": {
    "BundleId": "com.rxcalendar",
    "BundleVersion": "1",
    "Environment": "Sandbox",
    "Status": 1
  },
  "TransactionInfo": {
    "transactionId": "2000001175533110",
    "originalTransactionId": "2000001175533110",
```

"productId": "com.newStarterPlan",

"purchaseDate": 1779459951000,

"expiresDate": 1779460251000,

"appAccountToken": "e1961dea-4b9c-4cab-ba86-71e9ead7599e",

"Alg": "ES256",

"Kid": null,

"X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDV
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W9uIEF1dGhvcml0eTELMAkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgN
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YGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhvcml0
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DMXDmjPVT3dGvFtsGRwXOywR2kZCdSrfeot"

},

"RenewalInfo": {

"originalTransactionId": null,

"productId": null,

"autoRenewProductId": null,

"autoRenewStatus": 0,

"Alg": "ES256",

"Kid": null,

"X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDV
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W9uIEF1dGhvcml0eTELMAkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgN
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BoHzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBa
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aHR0cDovL2NlcnRzLmFwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwO
i8vb2NzcC5hcHBsZS5jb20vb2NzcDAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBg
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DMXDmjPVT3dGvFtsGRwXOywR2kZCdSrfeot"

}

}

-> Sample Webhook Response For 1st Purchase (iOS)

{

"Notification": {

"NotificationType": "SUBSCRIBED",

"Subtype": "INITIAL_BUY",

"NotificationUUID": "0eb1adbd-823d-464d-9bed-bd77962b0c78",

```
    "Version": "2.0",
    "SignedDate": "2026-04-30T13:13:28.294+00:00"
  },
  "Data": {
    "BundleId": "com.rxcalendar",
    "BundleVersion": "1",
    "Environment": "Sandbox",
    "Status": 1
  },
  "TransactionInfo": {
    "transactionId": "2000001162925214",
    "originalTransactionId": "2000001162925214",
    "productId": "com.newStarterPlan",
    "purchaseDate": 1777554807000,
    "expiresDate": 1777555107000,
    "appAccountToken": "18eaee9d-b4f5-4a50-924c-9e67abb71bf4",
    "Alg": "ES256",
    "Kid": null,
    "X5c":
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```

DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
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```
  },

  "RenewalInfo": {

    "originalTransactionId": null,

    "productId": null,

    "autoRenewProductId": null,

    "autoRenewStatus": 0,

    "Alg": "ES256",

    "Kid": null,

    "X5c":
```

"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
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DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
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XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
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OywR2kZCdSrfeot"

  }

}

-> Sample Webhook Response For Resubscribed (iOS)

{

  "Notification": {

    "NotificationType": "SUBSCRIBED",

    "Subtype": "RESUBSCRIBE",

    "NotificationUUID": "5550ecad-4574-4505-a6a3-cb682bc1301c",

    "Version": "2.0",

    "SignedDate": "2026-04-29T12:11:40.22+00:00"

  },

  "Data": {

    "BundleId": "com.rxcalendar",

    "BundleVersion": "1",

    "Environment": "Sandbox",

    "Status": 1

  },

  "TransactionInfo": {

    "transactionId": "2000001162237058",

    "originalTransactionId": "2000001038821356",

    "productId": "com.newStarterPlan",

    "purchaseDate": 1777464698000,

    "expiresDate": 1777464998000,

```
    "appAccountToken": null,

    "Alg": "ES256",

    "Kid": null,

    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
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R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"

  },

  "RenewalInfo": {

    "originalTransactionId": null,

    "productId": null,

    "autoRenewProductId": null,

    "autoRenewStatus": 0,

    "Alg": "ES256",

    "Kid": null,

    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
```

AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
HzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFD8vlCN
R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"

```
  }

}
```

-> Sample Webhook Response For Recurring (iOS)


```
{

  "Notification": {

    "NotificationType": "DID_RENEW",

    "Subtype": null,

    "NotificationUUID": "b5a811a9-703c-4a8e-94fa-e1a16394c74b",

    "Version": "2.0",

    "SignedDate": "2026-04-29T13:07:00.099+00:00"

  },

  "Data": {

    "BundleId": "com.rxcalendar",

    "BundleVersion": "1",
```

```
    "Environment": "Sandbox",
    "Status": 1
  },
  "TransactionInfo": {
    "transactionId": "2000001162277783",
    "originalTransactionId": "2000001038821356",
    "productId": "com.newStarterPlan",
    "purchaseDate": 1777468073000,
    "expiresDate": 1777468373000,
    "appAccountToken": null,
    "Alg": "ES256",
    "Kid": null,
    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
HzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFD8vlCN
R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"
  },
```

```
  "RenewalInfo": {
    "originalTransactionId": null,
    "productId": null,
    "autoRenewProductId": null,
    "autoRenewStatus": 0,
    "Alg": "ES256",
    "Kid": null,
    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
HzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFD8vlCN
R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"
  }
}
```


-> Sample Webhook Response For Cancelled (iOS)


```
{
  "Notification": {
```

```
    "NotificationType": "DID_CHANGE_RENEWAL_STATUS",
    "Subtype": "AUTO_RENEW_DISABLED",
    "NotificationUUID": "7fd55e5e-a479-4dea-a42a-132a5eb02a4f",
    "Version": "2.0",
    "SignedDate": "2026-04-29T12:44:43.272+00:00"
  },
  "Data": {
    "BundleId": "com.rxcalendar",
    "BundleVersion": "1",
    "Environment": "Sandbox",
    "Status": 1
  },
  "TransactionInfo": {
    "transactionId": "2000001162258540",
    "originalTransactionId": "2000001038821356",
    "productId": "com.newStarterPlan",
    "purchaseDate": 1777466521000,
    "expiresDate": 1777466821000,
    "appAccountToken": null,
    "Alg": "ES256",
    "Kid": null,
    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
```

9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
HzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFD8vlCN
R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2
5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"

```
  },

  "RenewalInfo": {

    "originalTransactionId": null,

    "productId": null,

    "autoRenewProductId": null,

    "autoRenewStatus": 0,

    "Alg": "ES256",

    "Kid": null,

    "X5c":
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"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
UdW5lcyBTdG9yZSBSZWNlaXB0IFNpZ25pbmcxLDAqBgNVBAsMI0FwcGxlIFdvcmxkd2lkZSBEZXZlbG
9wZXIgUmVsYXRpb25zMRMwEQYDVQQKDApBcHBsZSBJbmMuMQswCQYDVQQGEwJVUzBZMBMGByqGSM49A
gEGCCqGSM49AwEHA0IABNnVvhcv7iT+7Ex5tBMBgrQspHzIsXRi0Yxfek7lv8wEmj/bHiWtNwJqc2Bo
HzsQiEjP7KFIIKg4Y8y0/nynuAmjggIIMIICBDAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFD8vlCN
R01DJmig97bB85c+lkGKZMHAGCCsGAQUFBwEBBGQwYjAtBggrBgEFBQcwAoYhaHR0cDovL2NlcnRzLm
FwcGxlLmNvbS93d2RyZzYuZGVyMDEGCCsGAQUFBzABhiVodHRwOi8vb2NzcC5hcHBsZS5jb20vb2Nzc
DAzLXd3ZHJnNjAyMIIBHgYDVR0gBIIBFTCCAREwggENBgoqhkiG92NkBQYBMIH+MIHDBggrBgEFBQcC
AjCBtgyBs1JlbGlhbmNlIG9uIHRoaXMgY2VydGlmaWNhdGUgYnkgYW55IHBhcnR5IGFzc3VtZXMgYWN
jZXB0YW5jZSBvZiB0aGUgdGhlbiBhcHBsaWNhYmxlIHN0YW5kYXJkIHRlcm1zIGFuZCBjb25kaXRpb2

5zIG9mIHVzZSwgY2VydGlmaWNhdGUgcG9saWN5IGFuZCBjZXJ0aWZpY2F0aW9uIHByYWN0aWNlIHN0Y
XRlbWVudHMuMDYGCCsGAQUFBwIBFipodHRwOi8vd3d3LmFwcGxlLmNvbS9jZXJ0aWZpY2F0ZWF1dGhv
cml0eS8wHQYDVR0OBBYEFIFioG4wMMVA1ku9zJmGNPAVn3eqMA4GA1UdDwEB/wQEAwIHgDAQBgoqhki
G92NkBgsBBAIFADAKBggqhkjOPQQDAwNpADBmAjEA+qXnREC7hXIWVLsLxznjRpIzPf7VHz9V/CTm8+
LJlrQepnmcPvGLNcX6XPnlcgLAAjEA5IjNZKgg5pQ79knF4IbTXdKv8vutIDMXDmjPVT3dGvFtsGRwX
OywR2kZCdSrfeot"

```
  }

}
```

-> Sample Webhook Response For ReSubscribe After Cancellation(iOS)


```
{

  "Notification": {

    "NotificationType": "DID_CHANGE_RENEWAL_STATUS",

    "Subtype": "AUTO_RENEW_ENABLED",

    "NotificationUUID": "b57f9060-22ce-4ef2-bc92-7f47fdcbe5a4",

    "Version": "2.0",

    "SignedDate": "2026-04-29T12:45:33.66+00:00"

  },

  "Data": {

    "BundleId": "com.rxcalendar",

    "BundleVersion": "1",

    "Environment": "Sandbox",

    "Status": 1

  },

  "TransactionInfo": {

    "transactionId": "2000001162258540",

    "originalTransactionId": "2000001038821356",
```

```
    "productId": "com.newStarterPlan",

    "purchaseDate": 1777466521000,

    "expiresDate": 1777466821000,

    "appAccountToken": null,

    "Alg": "ES256",

    "Kid": null,

    "X5c":
"MIIEMTCCA7agAwIBAgIQR8KHzdn554Z/UoradNx9tzAKBggqhkjOPQQDAzB1MUQwQgYDVQQDDDtBcH
BsZSBXb3JsZHdpZGUgRGV2ZWxvcGVyIFJlbGF0aW9ucyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eTELM
AkGA1UECwwCRzYxEzARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTI1MDkxOTE5NDQ1
MVoXDTI3MTAxMzE3NDcyM1owgZIxQDA+BgNVBAMMN1Byb2QgRUNDIE1hYyBBcHAgU3RvcmUgYW5kIGl
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  },

  "RenewalInfo": {

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  }

}
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-> Sample Webhook Response For Expired (iOS)


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  "Notification": {

    "NotificationType": "EXPIRED",

    "Subtype": "VOLUNTARY",

    "NotificationUUID": "c597f9ea-a884-445e-8946-7b7c1eb638d1",

    "Version": "2.0",

    "SignedDate": "2026-04-29T13:12:56.816+00:00"

  },
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  "Data": {
    "BundleId": "com.rxcalendar",
    "BundleVersion": "1",
    "Environment": "Sandbox",
    "Status": 2
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  "TransactionInfo": {
    "transactionId": "2000001162277783",
    "originalTransactionId": "2000001038821356",
    "productId": "com.newStarterPlan",
    "purchaseDate": 1777468073000,
    "expiresDate": 1777468373000,
    "appAccountToken": null,
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    "Kid": null,
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  }

}

-> Sample Webhook Response For Trial (Android)


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"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1777464000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 7,


"purchaseToken":"fidlkfmmchokkpogbodimafm.AO-J1OyddE4Hehmvgs76RQiraKoyGWOMYfFJ-DF-_vLxqxMut7_3
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  "subscriptionId": "com.sub3"

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-> Sample Payload of Restore Purchase


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    "userId": "ABBC702F-9183-419A-8D89-288F286AFD07",

    "appType": "ios",

    "purchase": {

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        "productId": "com.newStandardPlan",

        "transactionDate": 1778597992000,

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np0SzUxN0lEdll1VlRaWHBta09sRUtNYU5DTUVBd0hRWURWUjBPQkJZRUZMdXczcUZZTTRpYXBJcVozcjY5NjYvYXl5U3J
NQThHQTFVZEV3RUIvd1FGTUFNQkFmOHdEZ1lEVlIwUEFRSC9CQVFEQWdFR01Bb0dDQ3FHU000OUJBTURBMmdBTUdVQ01RQ
0Q2Y0hFRmw0YVhUUVkyZTN2OUd3T0FFWkx1Tit5UmhIRkQvM21lb3locG12T3dnUFVuUFdUeG5TNGF0K3FJeFVDTUcxbWl
oRExsQTNVVDgyTlF6NjBpbU9sTTI3amJkb1h0MlFmeUZNbStZaGlkRGtMRjF2TFVhZ002QmdENTZLeUtBPT0iXX0.eyJ0c
mFuc2FjdGlvbklkIjoiMjAwMDAwMTE2ODk2OTQ1MiIsIm9yaWdpbmFsVHJhbnNhY3Rpb25JZCI6IjIwMDAwMDExNjg4Nzg
4MjEiLCJ3ZWJPcmRlckxpbmVJdGVtSWQiOiIyMDAwMDAwMTQwOTM2NzIxIiwiYnVuZGxlSWQiOiJjb20ucnhjYWxlbmRhc
iIsInByb2R1Y3RJZCI6ImNvbS5uZXdTdGFuZGFyZFBsYW4iLCJzdWJzY3JpcHRpb25Hcm91cElkZW50aWZpZXIiOiIyMDk
3MTQ5NSIsInB1cmNoYXNlRGF0ZSI6MTc3ODU5Nzk5MjAwMCwib3JpZ2luYWxQdXJjaGFzZURhdGUiOjE3Nzg1ODk1ODcwM
DAsImV4cGlyZXNEYXRlIjoxNzc4NTk4MjkyMDAwLCJxdWFudGl0eSI6MSwidHlwZSI6IkF1dG8tUmVuZXdhYmxlIFN1YnN
jcmlwdGlvbiIsImRldmljZVZlcmlmaWNhdGlvbiI6IjIwZm91VFhrZmhneFQ2WDRyaEpTL2Z4eU15a2NCdnBzSkdvbTBwM
mNUcHJaemlhb0NRM05zbDhJVVBkdDcxWlYiLCJkZXZpY2VWZXJpZmljYXRpb25Ob25jZSI6ImU4MjZmNmNhLTQwMjEtNDl
mMi1hOWJiLTdlNjg5MWYwZThmNyIsImFwcEFjY291bnRUb2tlbiI6ImExMTY4ODIwLTkzZTQtNDlkZi05MDcwLWJiMzhiO
GYyZGYxMCIsImluQXBwT3duZXJzaGlwVHlwZSI6IlBVUkNIQVNFRCIsInNpZ25lZERhdGUiOjE3Nzg1OTgxNzIwMzIsImV
udmlyb25tZW50IjoiU2FuZGJveCIsInRyYW5zYWN0aW9uUmVhc29uIjoiUkVORVdBTCIsInN0b3JlZnJvbnQiOiJVU0EiL
CJzdG9yZWZyb250SWQiOiIxNDM0NDEiLCJwcmljZSI6MTQ5OTAsImN1cnJlbmN5IjoiVVNEIiwiYXBwVHJhbnNhY3Rpb25
JZCI6IjcwNTUzMDA2MjMwODU3MTMyMSIsImJpbGxpbmdQbGFuVHlwZSI6IkJJTExFRF9VUEZST05UIn0.IhNi0IDuJhfFU
QpkjGyAXhHhgBwfQmzsApOV9jLUM6AWp1C6kvfjC189wkYqephHT4cJYzHaGWokdsvjxdGLew",

        "platform": "ios",

        "quantity": 1,

        "purchaseState": "purchased",

        "isAutoRenewing": false,

        "quantityIOS": 1,

        "originalTransactionDateIOS": 1778589587000,

        "originalTransactionIdentifierIOS": "2000001168878821",

        "appAccountToken": "A1168820-93E4-49DF-9070-BB38B8F2DF10"

    }

}

-> Sample Webhook Response For 1st Purchase (Android)


```
{

"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1777468000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 4,

"purchaseToken":"fidlkfmmchokkpogbodimafm.AO-J1OyddE4Hehmvgs76RQiraKoyGWOMYfFJ-DF-_vLxqxMut7_3
rc6ckBUVqiFXjWJZiGJD33wzE_4_7FVgGedqhgYjyqeFmg",

  "subscriptionId": "com.sub3"

}}
```


-> Sample Webhook Response For Recurring (Android)


```
{

"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1780060000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 2,

"purchaseToken":"fidlkfmmchokkpogbodimafm.AO-J1OyddE4Hehmvgs76RQiraKoyGWOMYfFJ-DF-_vLxqxMut7_3
rc6ckBUVqiFXjWJZiGJD33wzE_4_7FVgGedqhgYjyqeFmg",

  "subscriptionId": "com.sub3"

}}
```


Android (Play Store) — Sample webhook payloads

Android RTDNs arrive via Google Cloud Pub/Sub as base64-encoded messages. The samples below show the decoded JSON. After receiving any RTDN, you must call the Play Developer API with the `purchaseToken` to get full subscription details — the RTDN alone does not include user info, price, or expiry dates.

Trial started — `notificationType: 7` → `SUBSCRIPTION_IN_GRACE_PERIOD` / trialFired when a free trial begins. No charge yet — user gets access for the trial duration.

Android

```
"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1777464000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 7,

  "purchaseToken": "bkxyztrialtoken1234abcde.AO-J1OxK8mQp...",

  "subscriptionId": "com.newStarterPlan"

}
```

After receiving: call `purchases.subscriptionsv2.get` → check `subscriptionState` = `SUBSCRIPTION_STATE_IN_FREE_TRIAL`. Grant trial access. Log to `PlayStoreWebhook`, upsert `UserSubscriptions` with Status = `"trial"`.

First purchase — `notificationType: 4` → `SUBSCRIPTION_PURCHASED`Fired on the first paid subscription purchase (or when a trial converts to paid).

Android

```
"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1777468000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 4,

  "purchaseToken": "bkxyzpurchasetoken5678fghij.AO-J1OyR3nLq...",

  "subscriptionId": "com.newStarterPlan"

}
```

After receiving: call `purchases.subscriptionsv2.get` → verify `subscriptionState` = `SUBSCRIPTION_STATE_ACTIVE`. Acknowledge the purchase within 3 days or it will auto-refund. Extract `obfuscatedExternalAccountId` to resolve `UserId`. Log to `PlayStoreWebhook`, upsert `UserSubscriptions` with Status = `"active"`.

Recurring renewal — `notificationType: 2` → `SUBSCRIPTION_RENEWED`Fired on every successful auto-renewal after the first billing cycle.

Android

```
"version": "1.0",

"packageName": "com.rxcalendar",

"eventTimeMillis": "1780060000000",

"subscriptionNotification": {

  "version": "1.0",

  "notificationType": 2,

  "purchaseToken": "bkxyzpurchasetoken5678fghij.AO-J1OyR3nLq...",

  "subscriptionId": "com.newStarterPlan"

}
```

After receiving: call `purchases.subscriptionsv2.get` → update `expiryTime` in `UserSubscriptions`. Renewals do not require re-acknowledgement. Same `purchaseToken` as the original purchase persists across renewals.

The `purchaseToken` values above are illustrative placeholders. Real tokens are long opaque strings issued by Google — never construct or validate them yourself. Always treat them as opaque identifiers and verify via the Play Developer API.

Notification type reference

Type int	Constant name	When fired
1	`SUBSCRIPTION_RECOVERED`	Payment recovered after account hold
2	`SUBSCRIPTION_RENEWED`	Successful auto-renewal

3	SUBSCRIPTION_CANCELED	User cancelled (still active until expiry)
4	SUBSCRIPTION_PURCHASED	New purchase or trial conversion
5	SUBSCRIPTION_ON_HOLD	Payment declined — account hold period
6	SUBSCRIPTION_IN_GRACE_PERIOD	Payment failed — grace period active
7	SUBSCRIPTION_RESTARTED	Subscription restarted (used for trial start in some flows)
8	SUBSCRIPTION_PRICE_CHANGE_CONFIRMED	User accepted a price change
9	SUBSCRIPTION_DEFERRED	Renewal date deferred by developer
10	SUBSCRIPTION_PAUSED	Subscription paused
11	SUBSCRIPTION_PAUSE_SCHEDULE_CHANGED	Pause schedule changed
12	SUBSCRIPTION_REVOKED	Revoked before expiry (refund/chargeback)
13	SUBSCRIPTION_EXPIRED	Subscription fully expired

-> Tables Schema

```
CREATE TABLE [Subscription].[AppStoreWebhooks](
	[Id] [int] IDENTITY(1,1) NOT NULL,
	[NotificationType] [varchar](50) NOT NULL,
	[NotificationUuid] [varchar](50) NOT NULL,
	[SubType] [varchar](50) NULL,
	[OriginalTransactionId] [nvarchar](50) NOT NULL,
	[UserId] int,
	[Environment] [varchar](50) NOT NULL,
	[CreatedOn] [datetime2](7) NOT NULL

 CONSTRAINT [PK_AppStoreWebhooks] PRIMARY KEY CLUSTERED
(
	[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [Subscription].[AppStoreWebhooks] ADD  DEFAULT (getutcdate()) FOR
[CreatedAt]
GO
—----------------------------------------------------
CREATE TABLE [Subscription].[PlayStoreWebhook](
```

```
	[Id] [int] IDENTITY(1,1) NOT NULL,
	[MessageId] [nvarchar](50) NOT NULL,
	[PackageName] [nvarchar](100) NOT NULL,
	[SubscriptionId] [nvarchar](100) NOT NULL,
	[PurchaseToken] [nvarchar](200) NOT NULL,
	[NotificationType] [int] NOT NULL,
	[Status] [nvarchar](50) NOT NULL,
	[EventTime] [datetime] NOT NULL,
	[PriceAmount] [decimal](18, 2) NULL,
	[CurrencyCode] [nvarchar](10) NULL,
	[CreatedAt] [datetime] NOT NULL,
	[obfuscatedAccountId] [varchar](150) NULL,
	[orderId] [varchar](150) NULL,
	[UserId] int,
	[EventTimeUtc] [datetime2](7) NOT NULL
PRIMARY KEY CLUSTERED
(
	[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO


ALTER TABLE [Subscription].[PlayStoreWebhook] ADD  DEFAULT (getutcdate()) FOR
[CreatedOn]
GO
```

—----------

```
CREATE TABLE [Subscription].[UserSubscriptions](
        [Id] [int] IDENTITY(1,1) NOT NULL,
        [UserId] [int] NOT NULL,
        [OriginalTransactionId] [nvarchar](50) NOT NULL, – for ios
        [OrderId] [nvarchar](50) NOT NULL, – for android
        [ProductId] [nvarchar](50) NOT NULL,
        [Environment] [nvarchar](50) NOT NULL,
        [PurchaseDate] [datetime2](7) NOT NULL,
        [ExpirationDate] [datetime2](7) NOT NULL,
        [Status] [nvarchar](50) NOT NULL,
        [AutoRenewEnabled] [bit] NOT NULL,
        [SourceId] int, –means android users or ios users
        [CreatedOn] [datetime2](7) NOT NULL
 CONSTRAINT [PK_UserSubscriptions] PRIMARY KEY CLUSTERED
(
        [Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO


ALTER TABLE [Subscription].[UserSubscriptions] ADD  DEFAULT ((1)) FOR
[AutoRenewEnabled]
GO
```

—----------

Folder -> not in db

/errors/iOS/userid_StoreID_datetimetimestamp

/errors/android/userid_StoreID_datetimetimestamp

/errors/iOS/150_ddyhawd673876438_datetimetimestamp

/errors/android/userid_dhdwahbdahwbdah_datetimetimestamp

Retry Logic for Failed Subscription Payments

Feature	App Store	Play Store
Grace Period	6–16 days (opt-in)	3–30 days (automatic)
Retry Duration	Up to 60 days	Up to 30 days
Access During Retry	Only with Grace Period enabled By developer	Yes (grace), No (account hold)
Auto-cancel After	~60 days	~30–37 days

Apple App Store

Apple does **not** send a dedicated "restore purchase" webhook. However:

- When a user restores a purchase, Apple sends a `SUBSCRIBED` or `DID_RECOVER` server notification (App Store Server Notifications v2)
- You can also use the `/inApps/v1/notifications/history` endpoint to query past events
- Relevant notification types related to restore:

Notification Type	When Sent
`SUBSCRIBED`	User re-subscribes or restores
`DID_RECOVER`	Billing issue resolved / recovered
`REFUND`	Refund granted
`REVOKE`	Entitlement revoked

- For **non-consumables** , restore doesn't trigger a server notification — you must call `verifyReceipt` or the **Transactions API** on the client side

In Apple in-app purchases, a **non-consumable** is a product the user buys **once** and owns permanently.

Examples:

- “Remove Ads”
- “Pro Upgrade”
- “Unlock Premium Features”
- Extra game levels bought permanently

Entity example: Non-Consumable In-App Purchase

Key behavior of non-consumables

- User pays once
- Purchase can be restored on new devices
- Does **not expire**
- Apple stores the ownership history

So when a user taps **Restore Purchases**, Apple usually:

1. Returns the purchase from the device/App Store account
2. Your app re-checks ownership using:
    - `verifyReceipt` (older approach)
    - App Store Server API / Transactions API (modern approach)

But Apple does **not** send a special “restore purchase” webhook for non-consumables.

That’s why the note says:

> “For non-consumables, restore doesn't trigger a server notification.”

Your backend must verify ownership after the app restores purchases locally.

Google Play Store

Google also has **no dedicated restore webhook**, but:

- Google Play uses **Real-Time Developer Notifications (RTDN)** via **Pub/Sub**
- Relevant notification types:

Notification Type	Code	When Sent
`SUBSCRIPTION_RECOVERED`	1	Recovered from account hold
`SUBSCRIPTION_RENEWED`	2	Renewed successfully
`SUBSCRIPTION_PURCHASED`	4	New purchase (includes restores in some cases)

`SUBSCRIPTION_RESTARTED`	7	User restores a cancelled subscription