



Late API Rate Limit Reset Time Tracking

Date: November 22, 2025

Executive Summary

RESET TIME TRACKING IMPLEMENTED!

Your Late API rate limit tracking system now shows **exactly when each platform's limit will reset** for each profile. This helps you plan your posting schedule more effectively.

How Reset Times Work

Rolling 24-Hour Window

The Late API uses a **rolling 24-hour window** for rate limits, NOT a fixed daily reset time like "8 PM":

- **When you post:** Your post is recorded with a timestamp
- **When it expires:** 24 hours after that specific post
- **When the limit resets:** 24 hours after your **oldest** post to that platform

Example Scenario

Basketball Factory - Instagram:

```
Post #1: 9:00 AM → Expires at 9:00 AM next day
Post #2: 10:00 AM → Expires at 10:00 AM next day
Post #3: 11:00 AM → Expires at 11:00 AM next day
...
Post #8: 4:00 PM → Expires at 4:00 PM next day (limit reached)
```

Reset Time: 9:00 AM next day (when Post #1 expires)
After reset, you can post again!

What's New

1. Reset Time Display in UI

The Late API rate limit banner now shows reset times for each platform:

Example Display:

 Late API Rate Limit Warning (2 platforms)

Basketball Factory [warning]

Instagram: 7/8 [1]

 Resets in 3 hours (9:00 PM)

Facebook: 6/8

 Resets in 5 hours (11:00 PM)

LinkedIn: 5/8

2. Console Logging Enhanced

When you post, the console now shows:

 Late API Rate Limit Status (Basketball Factory - instagram):

Posts today: 7/8

Remaining: 1

 Resets in: 3 hours (9:00 PM)

 WARNING: Only 1 posts remaining for instagram (Basketball Factory) before rate limit!

Consider reducing posting frequency for this platform.

Limit will reset in 3 hours (9:00 PM).

3. Critical Limit Display

When you reach the limit:

 Late API Rate Limit Status (Rise As One - tiktok):

Posts today: 8/8

Remaining: 0

 Resets in: 45 minutes (6:15 PM)

 RATE LIMIT REACHED: Cannot post more to tiktok (Rise As One) until reset.

Limit will reset in 45 minutes (6:15 PM).

Updated UI Components

Banner Summary Messages

Before:

 Late API Rate Limit Warning (2 platforms)

You're approaching the daily posting limit (8 posts/day) for 2 platforms.

Consider reducing posting frequency.

After:

 Late API Rate Limit Warning (2 platforms)

You're approaching the daily posting limit (8 posts/day) for 2 platforms.

Check reset times below for each platform.

Banner Tip

Before:

 Tip: Each platform allows 8 posts per day per profile.
Use different profiles to post more frequently, or **wait** 24 hours.

After:

 Tip: Each platform allows 8 posts per day per profile using a rolling 24-hour window.
The limit resets 24 hours after your oldest post to that platform. Use different profiles
(Basketball Factory, Rise As One) to post more frequently, or **wait for** the reset time
shown above.

Technical Implementation

Interface Updates

lib/late-rate-limit.ts

Added two new fields to `PlatformStatus`:

```
interface PlatformStatus {
  platform: string
  profileId: string
  profileName: string
  count: number
  limit: number
  remaining: number
  statusLevel: 'good' | 'warning' | 'critical'
  percentageUsed: number
  resetTime: number | null          // NEW: Unix timestamp
  resetTimeFormatted: string | null // NEW: Human-readable
}
```

Calculation Logic

```
// Find the oldest post for this platform/profile
const oldestPost = platformPosts.reduce((oldest, current) =>
  current.timestamp < oldest.timestamp ? current : oldest
)

// Reset time is 24 hours after the oldest post
resetTime = oldestPost.timestamp + (24 * 60 * 60 * 1000)

// Format as human-readable
const hoursUntilReset = Math.ceil((resetTime - now) / (60 * 60 * 1000))
const minutesUntilReset = Math.ceil((resetTime - now) / (60 * 1000))

if (hoursUntilReset > 1) {
  resetTimeFormatted = `${hoursUntilReset} hours (9:00 PM)`
} else if (minutesUntilReset > 0) {
  resetTimeFormatted = `${minutesUntilReset} minutes (9:00 PM)`
} else {
  resetTimeFormatted = 'Less than 1 minute'
}
```

Files Modified

1. lib/late-rate-limit.ts

- Added `resetTime` and `resetTimeFormatted` to `PlatformStatus` interface
- Updated `getPlatformStatus()` to calculate and format reset times
- Enhanced console logging in `recordLatePost()` to show reset times

2. components/late-rate-limit-banner.tsx

- Updated `PlatformStatus` interface to match library
- Modified platform display to show reset times
- Updated grid layout to accommodate reset time rows
- Enhanced summary messages to reference reset times
- Updated tip to explain rolling 24-hour window

User Benefits

Before (No Reset Times)

- ✗ "When can I post again?"
- ✗ "How long do I need to wait?"
- ✗ "Is it 24 hours from now or from my first post?"
- ✗ Users had to manually calculate or guess

After (With Reset Times)

- "Limit resets in 3 hours (9:00 PM)"
- Clear countdown showing hours/minutes remaining
- Exact time displayed (e.g., "9:00 PM")
- Visible on dashboard banner
- Logged in console **for** debugging

Examples

Scenario 1: Multiple Platforms Approaching Limit

```
Rise As One [warning]
Instagram: 7/8 [1]
⌚ Resets in 2 hours (8:30 PM)

TikTok: 6/8 [2]
⌚ Resets in 4 hours (10:30 PM)

Facebook: 5/8
```

Scenario 2: Platform at Critical Limit

```
Basketball Factory [critical]
LinkedIn: 8/8 [0]
⌚ Resets in 45 minutes (6:15 PM)

Instagram: 6/8
Facebook: 5/8
```

Scenario 3: Fresh Profile (No Reset Times Yet)

```
Rise As One [good]
Instagram: 2/8
TikTok: 1/8
Facebook: 3/8
```

(No reset times shown because limits aren't being approached)

FAQ

Q: Why don't I see reset times for all platforms?

A: Reset times only appear when a platform is at **warning** (≤ 2 posts remaining) or **critical** (0 remaining) status. If you have plenty of posts left, reset times aren't shown to keep the UI clean.

Q: Is this a fixed daily reset like “8 PM every day”?

A: No, it's a **rolling 24-hour window**. The reset time depends on when you posted, not a fixed time. If you post at 3 PM, that post expires at 3 PM the next day.

Q: Why does the reset time change?

A: As your oldest post expires, the “next oldest” post becomes the reference point. The reset time will shift forward as posts expire throughout the day.

Q: Can I see reset times in advance?

A: Reset times are only displayed when you’re approaching or at the limit (warning/critical status). This helps you plan when you need it most.

Q: What if I use multiple profiles?

A: Each profile has **separate** rate limits and reset times. Basketball Factory and Rise As One are tracked independently, so you can post 8 times per day per platform for each profile.

Testing

How to Test

1. Post to a platform 6-7 times in quick succession
2. Check the dashboard rate limit banner
3. You should see the reset time appear when you reach warning status
4. Post one more time to reach the limit
5. The reset time should update to show when the oldest post expires

Console Output to Verify

```
📊 Late API Rate Limit Status (Basketball Factory - instagram):
Posts today: 7/8
Remaining: 1
⌚ Resets in: 3 hours (9:23 PM)
```

Comparison: Before vs After

BEFORE

```
Status: "7/8 posts used"
User: "When can I post again?"
System: "Wait 24 hours"
User: "24 hours from when?"
System: `\\_(`_/-`
```

AFTER

```
Status: "7/8 posts used"
Reset: "⌚ Resets in 3 hours (9:23 PM)"
User: "Perfect! I'll schedule my next post for 9:30 PM"
System: ✓
```

Summary

COMPLETE RESET TIME VISIBILITY!

- Rolling 24-hour window:** Resets 24 hours after oldest post
- Real-time countdown:** Shows hours/minutes remaining
- Exact time display:** Shows when limit resets (e.g., "9:00 PM")
- Dashboard integration:** Visible in rate limit banner
- Console logging:** Detailed reset info in logs
- Per-profile tracking:** Separate reset times for each profile

Status: Production Ready

Location: Dashboard → Rate Limit Banner (visible when approaching/at limit)

Update Frequency: Real-time (banner refreshes every 2 minutes)

Last Updated: November 22, 2025 at 3:45 PM

Checkpoint: "Added reset time tracking to rate limits"