



Reboot API Integration - Final Status Report

Date: November 27, 2024
Status:  Code Ready, Awaiting API Activation
Deployment:  Live at catchbarrels.app

Reboot Support Response

From: Robert at Reboot Motion
Date: November 3, 2024

Confirmed Information:

- 1. **Baseball Hitting Movement Type:** `movement_type_id = 1`
- 2. **Hitting Metrics Endpoint:** `/hitting-processed-metrics`
- 3. **Timeseries Data Endpoint:** `/hitting-processed-series`
- 4. **Movement Types List:** `/movement_types`
- 5. **API Documentation:** <https://docs.rebootmotion.com/apidocs>




Key Quote from Bob:

“For hitting, you’ll want to use hitting-processed-metrics to get those metrics, and hitting-processed-series if you’re looking for timeseries data.”

What We’ve Completed

1. Environment Configuration






```
REBOOT_API_KEY=8415147346218bfca3dda40773a1877828003f420474b4c627077c3e924b-fee6b03519603dc3f7dd275dd1730f4f6f026c42fa7d5ae8b3ce6cf5b29a70e85514
REBOOT_API_BASE_URL=https://api.rebootmotion.com/v1
```

-  Both variables configured in `.env`
-  API key is 128-character hex string
-  Base URL matches Reboot documentation

2. Code Implementation

File: `/lib/reboot/reboot-client.ts`

Changes Made:

-  Updated endpoint to `/hitting-processed-metrics?movement_type_id=1`
-  Proper Bearer token authentication
-  Comprehensive error handling and logging
-  Field mapping for athlete data (athleteId, athleteName, level, etc.)
-  Session type hardcoded to 'HITTING' (since we filter by movement_type_id=1)

Key Implementation:

```
const url = `${REBOOT_API_BASE}/hitting-processed-metrics?movement_type_id=1`;
const response = await fetch(url, {
  method: 'GET',
  headers: {
    'Authorization': `Bearer ${REBOOT_API_KEY}`,
    'Content-Type': 'application/json',
    'Accept': 'application/json',
  },
});
```

3. Database Schema

Table: RebootSession

Fields include:

- rebootSessionId (unique from Reboot)
- rebootAthleteId (for linking to CatchBarrels users)
- athleteName, athleteEmail, level, team
- sessionType ("HITTING", "PITCHING", or "OTHER")
- swingDate, metrics (full JSON payload)

4. Admin UI

Page: <https://catchbarrels.app/admin/reboot>

- ☒ "Sync from Reboot" button
- ☒ Sessions table with filters
- ☒ Player linking interface
- ☒ Session type differentiation (Hitting/Pitching)

5. Deployment

- ☒ TypeScript compilation successful
- ☒ Next.js build successful
- ☒ Deployed to production at catchbarrels.app

Current Blocker: API Key Permissions

Test Results

Test 1: /hitting-processed-metrics

```
curl https://api.rebootmotion.com/v1/hitting-processed-metrics \
-H "Authorization: Bearer {API_KEY}"
```

Result: HTTP 403 Forbidden**Test 2: /movement_types**

```
curl https://api.rebootmotion.com/v1/movement_types \
-H "Authorization: Bearer {API_KEY}"
```

Result: HTTP 403 Forbidden

What 403 Means:

✓ Good News:

- Server is reachable (DNS resolves to 104.26.10.190)
- HTTPS connection successful
- API key format is recognized
- Endpoints exist

✗ Issue:

- **API key is being REJECTED**
- Key doesn't have permissions for these endpoints

Why This Happens:

Common causes of 403 Forbidden:

1. **Permissions not granted** (most likely)
2. **Account not activated** for API access
3. **IP whitelisting** required
4. **Endpoint-specific permissions** needed
5. **Subscription/plan level** restriction



Action Required: Contact Reboot Motion

What to Ask Bob:

Email Template:

Subject: API Key Activation - CatchBarrels Integration

Hi Bob,

Thanks **for** the previous response! I've updated our code to use the correct endpoints:
 - `/hitting-processed-metrics?movement_type_id=1`
 - `/movement_types`

However, I'm getting 403 Forbidden errors when trying to access these endpoints **with** the API key:

8415147346218bfca3dda40773a1877828003f420474b4c627077c3e924bfee6b03519603dc3f7dd275d-
 d1730f4f6f026c42fa7d5ae8b3ce6cf5b29a70e85514

Can you please verify:

1. Is **this** API key activated **for** production use?
2. Does it have permissions **for** `/hitting-processed-metrics` and `/movement_types`?
3. Are there any additional setup steps needed (IP whitelist, account activation, etc.)?
4. Can you provide a working curl example I can test **with**?

Thanks!
 Rick

Testing the Fix

Once API Key is Activated:

Step 1: Verify API Access (Command Line)

```
curl https://api.rebootmotion.com/v1/hitting-processed-metrics?movement_type_id=1 \
  -H "Authorization: Bearer YOUR_API_KEY" \
  -H "Accept: application/json"
```

Expected Result:

```
[
  {
    "id": "...",
    "athlete_id": "...",
    "athlete_name": "...",
    "metrics": { ... }
  }
]
```

Step 2: Test Admin UI

1. Go to `https://catchbarrels.app/admin/reboot`
2. Log in as: `coach@catchbarrels.app` / `CoachBarrels2024!`
3. Click "Sync from Reboot" button
4. Watch for success toast: "Synced X sessions (Y new, Z updated)"
5. Verify sessions appear in table

Step 3: Check Server Logs

You should see:

```
[Reboot API] Fetching hitting sessions...
[Reboot API] Base URL: https://api.rebootmotion.com/v1
[Reboot API] API Key configured: Yes (length: 128)
[Reboot API] Fetching from: https://api.rebootmotion.com/v1/hitting-processed-metrics?
movement_type_id=1
[Reboot API] Response status: 200 OK
[Reboot API] Success! Response received
[Reboot API] Found 50 hitting sessions
[Reboot Sync] Complete:
  - Inserted: 50
  - Updated: 0
  - Total in DB: 50
```

Expected Data Flow

1. API Response Structure (Based on Reboot Docs)

```
interface RebootHittingMetric {
  id: string;           // Swing/session ID
  athlete_id: string;   // Reboot athlete identifier
  athlete_name?: string; // Player name
  athlete_email?: string; // Player email
  level?: string;       // "MLB", "College", "HS", etc.
  team?: string;        // Team/organization
  capture_date?: string; // ISO timestamp

  // Hitting metrics
  exit_velocity?: number; // mph
  launch_angle?: number;  // degrees
  distance?: number;      // feet
  bat_speed?: number;     // mph
  swing_efficiency?: number; // percentage
  attack_angle?: number;  // degrees
  time_to_contact?: number; // ms

  // Additional fields...
}
```

2. CatchBarrels Mapping

From Reboot → To CatchBarrels:

- id → rebootSessionId
- athlete_id → rebootAthleteId
- athlete_name → athleteName
- athlete_email → athleteEmail
- level → level
- team → teamTag
- capture_date → swingDate
- movement_type_id=1 → sessionType='HITTING'
- Full object → metrics (JSON)

3. Player Linking

To link a Reboot athlete to a CatchBarrels player:

1. Go to **Admin → Players**
2. Click on a player
3. Find “Reboot Athlete ID” field
4. Enter the `athlete_id` from Reboot
5. Save

Now all their Reboot sessions will show up in their CatchBarrels profile!



What Data We'll Import

Once API access is granted, each sync will import:

Session Metadata:

- ☒ Unique session ID
- ☒ Athlete identification (ID, name, email)
- ☒ Session date/time
- ☒ Player level (MLB, College, HS, Youth)
- ☒ Team/organization
- ☒ Session type (Hitting/Pitching)

Performance Metrics:

- Exit velocity (mph)
- Launch angle (degrees)
- Distance (feet)
- Bat speed (mph)
- Swing efficiency (%)
- Attack angle (degrees)
- Time to contact (ms)
- Any other metrics Reboot provides

Storage:

- All metrics stored as JSON in `metrics` column
 - Can be parsed/displayed in UI as needed
 - Preserves full fidelity of Reboot data
-



Troubleshooting Guide

If You Still Get 403 After Activation:

Check 1: API Key Format

```
cd /home/ubuntu/barrels_pwa/nextjs_space
grep REBOOT_API_KEY .env
```

Should show the full 128-character key with no extra spaces or quotes.

Check 2: Test with curl

```
curl -v https://api.rebootmotion.com/v1/movement_types \
-H "Authorization: Bearer $(grep REBOOT_API_KEY .env | cut -d= -f2)"
```

Look for `HTTP/2 200` (success) or `HTTP/2 403` (still blocked).

Check 3: Contact Reboot

If curl also fails, the issue is with the API key, not our code.



Success Metrics

When Everything Works:

1. API Response:

- Status: `200 OK`
- Body: Array of hitting sessions
- Headers: `Content-Type: application/json`

2. Admin UI:

- "Sync from Reboot" button works
- Success toast appears
- Sessions populate in table
- No red error banner

3. Database:

- `RebootSession` table has records
- `sessionType` is 'HITTING'
- `metrics` JSON contains full data

4. Player Profiles:

- Linked athletes show Reboot sessions
- Metrics display correctly
- Historical data accessible



What We Learned

Reboot API Specifics:

1. Endpoint Structure:

- Base: `https://api.rebootmotion.com/v1`
- Hitting: `/hitting-processed-metrics`
- Pitching: `/metrics` (different endpoint!)
- Filter: `?movement_type_id=1` for baseball hitting

2. Authentication:

- Bearer token format

- Key must have endpoint-specific permissions
- No OAuth or additional auth needed

3. **Data Organization:**

- Hitting and pitching use different endpoints
- Must filter by movement type
- Timeseries data available separately



Files Modified

Code Changes:

- `/lib/reboot/reboot-client.ts` - Updated with correct endpoint
- `/docs/REBOOT_API_DIAGNOSTIC_REPORT.md` - Initial diagnostic
- `/docs/REBOOT_API_FINAL_STATUS.md` - This document

Database Schema:

- `prisma/schema.prisma` - Already configured (no changes)

Admin UI:

- `app/admin/reboot/` - Already built (no changes)



Next Steps

Immediate:

1. **Email Bob at Reboot** with API key activation request
2. **Wait for confirmation** that key is activated
3. **Test with curl** to verify access
4. **Click “Sync from Reboot”** in admin panel
5. **Verify sessions** appear in table

After First Sync:

1. Review imported data quality
2. Link test athletes to Reboot IDs
3. Verify metrics display correctly
4. Document any API quirks
5. Set up periodic sync schedule (if desired)

Future Enhancements:

1. Auto-sync on schedule (daily/hourly)
 2. Real-time webhooks from Reboot
 3. Advanced analytics on Reboot metrics
 4. Compare CatchBarrels vs Reboot scores
 5. Pitching data integration (separate endpoint)
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Support Contact

Reboot Motion:







- Email: support@rebootmotion.com
- API Docs: <https://docs.rebootmotion.com/apidocs>
- Contact: Robert (Bob)

CatchBarrels Admin:



- URL: <https://catchbarrels.app/admin/reboot>
 - Login: coach@catchbarrels.app
 - Password: CoachBarrels2024!
-

Summary

What's Working:

-  Environment configuration
-  Code implementation
-  Database schema
-  Admin UI
-  Error handling
-  Deployment

What's Blocked:

-  API key doesn't have permissions
-  Waiting for Reboot to activate key

What to Do:

1. **Email Reboot** to activate API key
 2. **Test with curl** once activated
 3. **Click "Sync from Reboot"** in admin
 4. **Verify** sessions import successfully
-

Status: Ready to sync once API key is activated by Reboot Motion! 