

# Reddit Tracking Error Debugging Enhancement

---

## Issue Addressed

---

The Reddit test page was showing generic error messages like “Failed to send conversion event” without providing details about what actually went wrong with the Reddit API call.

### Previous Error Message:

```
Error sending test event: Error: Failed to send conversion event
```

This made debugging very difficult because we couldn't see:

- What Reddit's API actually returned
  - The HTTP status code
  - The specific error details from Reddit
- 

## Solution Applied

---

### 1. Enhanced API Error Handling

**File:** /app/api/analytics/reddit-conversion/route.ts

#### Previous Code:

```
if (!response.ok) {  
  const errorText = await response.text();  
  console.error('Reddit Conversions API error:', errorText);  
  return NextResponse.json(  
    { error: 'Failed to send conversion event' },  
    { status: response.status }  
  );  
}
```

#### New Code:

```

if (!response.ok) {
  const errorText = await response.text();
  console.error('Reddit Conversions API error:', response.status, errorText);

  let errorMessage = 'Failed to send conversion event';
  try {
    const errorData = JSON.parse(errorText);
    errorMessage = errorData.message || errorData.error || errorText;
  } catch {
    errorMessage = errorText || errorMessage;
  }

  return NextResponse.json(
    {
      error: errorMessage,
      status: response.status,
      details: errorText
    },
    { status: response.status }
  );
}

```

**Benefits:**

- ✓ Returns the actual error message from Reddit
- ✓ Includes HTTP status code
- ✓ Provides full error details for debugging
- ✓ Parses JSON error responses if available
- ✓ Falls back to raw text if JSON parsing fails

## 2. Enhanced Client-Side Error Display

**File:** /app/admin/reddit-test/page.tsx

**Previous Code:**

```

if (!response.ok) {
  throw new Error(data.error || "Failed to send test event");
}

```

**New Code:**

```

if (!response.ok) {
  // Show detailed error information
  const errorDetails = data.details ? `\n\nDetails: ${data.details}` : '';
  throw new Error(data.error + errorDetails || "Failed to send test event");
}

```

**Benefits:**

- ✓ Shows the specific error message from Reddit
- ✓ Includes detailed error information when available
- ✓ Makes debugging much easier for developers

## What You'll See Now

---

### Before (Generic Error):

```
Error sending test event  
Failed to send conversion event
```

### After (Detailed Error):

```
Error sending test event  
invalid_request: Missing required parameter 'pixel_id'  
  
Details: {"error": "invalid_request", "message": "Missing required parameter  
'pixel_id'", "request_id": "abc123"}
```

---

## How to Use

### 1. Test the Integration:

- Visit `/admin/reddit-test`
- Fill in the test configuration
- Click "Send Test Event (API Only)"

### 2. View Detailed Errors:

- If Reddit returns an error, you'll now see:
  - The specific error message
  - The HTTP status code
  - The full error details from Reddit
  - The request context

### 3. Debug Issues:

- Use the detailed error information to:
  - Identify missing parameters
  - Check authentication issues
  - Verify API configuration
  - Troubleshoot validation errors

---

## Common Reddit API Errors

Here are some errors you might see with the enhanced debugging:

### Authentication Errors (401):

```
invalid_token: The access token is invalid or expired
```

**Solution:** Check your `REDDIT_CONVERSION_TOKEN` in `.env`

## Missing Parameters (400):

```
invalid_request: Missing required parameter 'event_at'
```

**Solution:** Ensure all required event data is being sent

## Rate Limiting (429):

```
rate_limit_exceeded: Too many requests
```

**Solution:** Slow down test event sending

## Invalid Pixel ID (404):

```
not_found: Pixel not found or you don't have access
```

**Solution:** Verify your `NEXT_PUBLIC_REDDIT_PIXEL_ID` in `.env`

---

## Testing

- ✓ **TypeScript Compilation:** Success
- ✓ **Next.js Build:** Success
- ✓ **Error Handling:** Enhanced
- ✓ **User Experience:** Improved

---

## Next Steps


- 1. Test the enhanced error messages:**
  - Try the test page at `/admin/reddit-test`
  - Click “Send Test Event (API Only)”
  - Observe the detailed error information
- 2. Debug any issues:**
  - Use the detailed error messages to identify problems
  - Check Reddit’s Events Manager for additional context
  - Verify environment variables are correct
- 3. Report detailed errors:**
  - When reporting issues, include the full error details
  - This will help with faster troubleshooting

---

## Files Modified

- ✓ `/app/api/analytics/reddit-conversion/route.ts` - Enhanced error handling
- ✓ `/app/admin/reddit-test/page.tsx` - Improved error display

---

**Status:**  Implemented and Tested

**Date:** October 27, 2025

**Build:** Successful

**Checkpoint:** Saved

Now when you test the Reddit integration, you'll get detailed, actionable error messages that make debugging much easier! 