

# 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 jsonData = JSON.parse(errorText);
    errorMessage = jsonData.message || jsonData.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_REDIT_PIXEL_ID` in `.env`

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## Testing

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

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

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**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! 