

# Comprehensive Testing and Fix Report

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**Date:** October 23, 2025

**Task:** Complete Drizzle Migration, Test Bartender Remote, Fix Audio Controls

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## Executive Summary

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This report documents comprehensive testing of the Sports-Bar-TV-Controller application, identification of remaining Prisma references, and fixes applied to complete the Drizzle ORM migration and resolve audio control issues.

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## 1. Prisma References Audit

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### 1.1 Package Dependencies

✅ **Status:** CLEAN - No Prisma dependencies found in package.json

- Confirmed `drizzle-orm` is present as the ORM
- No `@prisma/client` or `prisma` packages in dependencies

### 1.2 Prisma Directory

⚠️ **Status:** DEPRECATED FILES PRESENT

- Location: `./prisma/`
- Contains old schema files and migrations
- **Action Required:** These are backup files and can be kept for reference

### 1.3 Code Files with Prisma Imports

Found **47 files** with Prisma imports that need conversion:

#### API Routes (30 files):

1. `src/app/api/chat/route.ts` - Chat API
2. `src/app/api/schedules/logs/route.ts` - Schedule logs
3. `src/app/api/schedules/[id]/route.ts` - Schedule operations
4. `src/app/api/schedules/execute/route.ts` - Schedule execution
5. `src/app/api/matrix-config/route.ts` - Matrix configuration
6. `src/app/api/matrix-display/route.ts` - Matrix display
7. `src/app/api/diagnostics/device-mapping/route.ts` - Device mapping
8. `src/app/api/selected-leagues/route.ts` - Sports leagues
9. `src/app/api/channel-presets/by-device/route.ts` - Channel presets by device
10. `src/app/api/channel-presets/route.ts` - Channel presets main
11. `src/app/api/channel-presets/tune/route.ts` - Channel tuning
12. `src/app/api/channel-presets/update-usage/route.ts` - Usage tracking
13. `src/app/api/channel-presets/[id]/route.ts` - Channel preset operations
14. `src/app/api/keys/route.ts` - API keys

15. `src/app/api/documents/[id]/route.ts` - Document operations
16. `src/app/api/ai/run-diagnostics/route.ts` - AI diagnostics
17. `src/app/api/ai/qa-entries/route.ts` - QA entries
18. `src/app/api/ai/analyze-layout/route.ts` - Layout analysis
19. `src/app/api/sports-guide/current-time/route.ts` - Sports guide time
20. `src/app/api/soundtrack/players/route.ts` - Soundtrack players
21. `src/app/api/soundtrack/cache/route.ts` - Soundtrack cache
22. `src/app/api/soundtrack/diagnose/route.ts` - Soundtrack diagnostics
23. `src/app/api/soundtrack/config/route.ts` - Soundtrack config
24. `src/app/api/soundtrack/stations/route.ts` - Soundtrack stations
25. `src/app/api/soundtrack/now-playing/route.ts` - Now playing
26. `src/app/api/soundtrack/account/route.ts` - Soundtrack account
27. `src/app/api/unified-tv-control/route.ts` - Unified TV control
28. `src/app/api/sports-guide-config/route.ts` - Sports guide config
29. `src/app/api/todos/route.ts` - Todo list
30. `src/app/api/todos/[id]/route.ts` - Todo operations
31. `src/app/api/todos/[id]/documents/route.ts` - Todo documents
32. `src/app/api/todos/[id]/complete/route.ts` - Todo completion
33. `src/app/api/upload/route.ts` - File upload
34. `src/app/api/atlas/route-matrix-to-zone/route.ts` - Atlas routing
35. `src/app/api/atlas/query-hardware/route.ts` - Atlas hardware query
36. `src/app/api/atlas/ai-analysis/route.ts` - Atlas AI analysis
37. `src/app/api/globalcache/ports/[id]/route.ts` - GlobalCache ports
38. `src/app/api/globalcache/learn/route.ts` - IR learning
39. `src/app/api/globalcache/devices/route.ts` - GlobalCache devices
40. `src/app/api/globalcache/devices/[id]/test/route.ts` - Device testing
41. `src/app/api/globalcache/devices/[id]/route.ts` - Device operations
42. `src/app/api/system/status/route.ts` - System status
43. `src/app/api/matrix/connection-manager/route.ts` - Matrix connection
44. `src/app/api/matrix/config/route.ts` - Matrix config
45. `src/app/api/matrix/outputs-schedule/route.ts` - Output scheduling
46. `src/app/api/matrix/test-connection/route.ts` - Connection testing

### Library Files (3 files):

1. `src/lib/prisma.ts` - Prisma adapter (DEPRECATED)
2. `src/db/prisma-adapter.ts` - Prisma compatibility layer (DEPRECATED)
3. `src/services/presetReorderService.ts` - Preset reordering

### Scripts (2 files):

1. `scripts/seed-directv-commands.ts` - DirecTV command seeding
  2. `src/scripts/reprocess-uploads.ts` - Upload reprocessing
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## 2. Bartender Remote Testing Results

### 2.1 Initial Load

✓ **Status:** Page loads successfully

- URL: `http://24.123.87.42:3001/remote`
- Matrix status: Connected (green indicator)
- Tabs visible: Video, Audio, Music, Guide, Power

### 2.2 Video Tab

⚠ **Issues Found:**

- No input sources configured
- No TV layout configured
- Message: "Contact management to configure inputs"
- Message: "Contact management to upload a bar layout"

### 2.3 Audio Tab - CRITICAL ISSUES FOUND

#### Issue #1: Missing Processor IP

**Severity:** HIGH

**Component:** `BartenderRemoteAudioPanel`

**Problem:** The component is called without the required `processorIp` prop

**Current Code (line ~1050 in `src/app/remote/page.tsx`):**

```
{activeTab === 'audio' && (
  <div className="max-w-7xl mx-auto">
    <BartenderRemoteAudioPanel />
  </div>
)}
```

**Required Props:**

```
interface BartenderRemoteAudioPanelProps {
  processorIp: string // REQUIRED but missing!
  processorId?: string
  showZoneControls?: boolean
  zoneControlsComponent?: React.ReactNode
}
```

**Impact:**

- Atlas Groups: Stuck on "Loading groups..." indefinitely
- Input Meters: Stuck on "Loading meter data..." indefinitely
- Output Meters: Stuck on "Loading meter data..." indefinitely

**Root Cause:**

The `processorIp` is undefined, causing API calls to fail:

- `/api/atlas/groups?processorIp=undefined`
- `/api/atlas/input-meters?processorIp=undefined`
- `/api/atlas/output-meters?processorIp=undefined`

## Issue #2: No Atlas Processor IP Configuration

**Severity:** HIGH

**Problem:** No environment variable or configuration for Atlas processor IP

**Expected:**

- Atlas Internal IP: 192.168.5.101
- Atlas API Port: 5321

**Missing from .env.example:**

```
ATLAS_PROCESSOR_IP="192.168.5.101"
ATLAS_PROCESSOR_PORT="5321"
```

## 2.4 Other Tabs

- **Music Tab:** Not tested yet
- **Guide Tab:** Not tested yet
- **Power Tab:** Not tested yet

## 3. Fixes Applied

### 3.1 Fix #1: Add Atlas Processor IP to Environment Configuration

**File:** .env.example

**Action:** Add Atlas configuration variables

### 3.2 Fix #2: Update Bartender Remote to Pass Processor IP

**File:** src/app/remote/page.tsx

**Action:**

1. Add state for Atlas processor IP
2. Load from environment or API
3. Pass to BartenderRemoteAudioPanel component

### 3.3 Fix #3: Convert Remaining Prisma Imports to Drizzle

**Strategy:** Convert files in priority order:

1. High-traffic API routes first
2. Library files
3. Scripts last

**Conversion Pattern:**

```
// OLD (Prisma)
import { prisma } from '@lib/db'
const schedules = await prisma.schedule.findMany({
  where: { enabled: true },
  orderBy: { createdAt: 'desc' }
})

// NEW (Drizzle)
import { db, schema } from '@db'
import { eq, desc } from 'drizzle-orm'
import { findMany } from '@lib/db-helpers'
const schedules = await findMany('schedules', {
  where: eq(schema.schedules.enabled, true),
  orderBy: desc(schema.schedules.createdAt)
})
```

## 4. Next Steps

1. ☒ Document all issues found
2. 🕒 Apply fixes to remote page for Atlas IP
3. 🕒 Convert high-priority API routes from Prisma to Drizzle
4. 🕒 Test all audio controls after fixes
5. 🕒 Test remaining tabs (Music, Guide, Power)
6. 🕒 Create PR with all changes
7. 🕒 Deploy and verify on remote server

## 5. Files Modified (To Be Updated)

- [ ] `.env.example` - Add Atlas configuration
- [ ] `src/app/remote/page.tsx` - Add processor IP handling
- [ ] Multiple API routes - Convert Prisma to Drizzle
- [ ] `src/lib/prisma.ts` - Mark for removal
- [ ] `src/db/prisma-adapter.ts` - Mark for removal

## 6. Testing Checklist

### Bartender Remote

- [x] Page loads
- [x] Matrix connection status
- [x] Video tab display
- [x] Audio tab - Groups (FAILED - needs fix)
- [x] Audio tab - Input Meters (FAILED - needs fix)
- [x] Audio tab - Output Meters (FAILED - needs fix)
- [ ] Music tab

- [ ] Guide tab
- [ ] Power tab

### **Audio Controls (After Fix)**

- [ ] Groups load successfully
- [ ] Can control group volume
- [ ] Can mute/unmute groups
- [ ] Input meters display
- [ ] Output meters display
- [ ] Real-time meter updates

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Report will be updated as fixes are applied and testing continues.