

Deployment Guide - Atlas Integration Fix

Date: October 24, 2025

Pull Request: #258






Branch: `fix/atlas-dynamic-discovery`

Overview





This fix resolves the Atlas integration issues where the application was using hardcoded limits instead of querying the actual hardware configuration. The application was querying for 8 zones, 8 groups, and 14 sources when the actual Atlas device only has 7 zones, 6 groups, and 9 sources.

What Was Fixed

Files Modified:

1.  **NEW:** `src/app/api/atlas/discover-config/route.ts` - Configuration discovery API
2.  **MODIFIED:** `src/app/api/atlas/groups/route.ts` - Dynamic group discovery
3.  **MODIFIED:** `src/app/api/atlas/input-meters/route.ts` - Dynamic source discovery
4.  **MODIFIED:** `src/app/api/atlas/output-meters/route.ts` - Dynamic zone/group discovery
5.  **MODIFIED:** `src/components/AtlasGroupsControl.tsx` - Dynamic source discovery

Changes:

-  Removed all hardcoded loop limits (8, 14, etc.)
 -  Added dynamic discovery that queries until error
 -  Application now adapts to actual hardware configuration
 -  Works with any Atlas model without code changes
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Deployment Steps

Option 1: Merge PR and Deploy (Recommended)

Step 1: Review and Merge PR

1. Go to: <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/pull/258>
2. Review the changes
3. Click "Merge pull request"
4. Confirm merge

Step 2: SSH into Remote Server

```
ssh -p 2222 dj@24.123.87.42
```

Password: `6809233DjD$$$`

Step 3: Navigate to Project Directory

```
cd /path/to/Sports-Bar-TV-Controller
# (Find the exact path - likely ~/Sports-Bar-TV-Controller or /opt/Sports-Bar-TV-Controller)
```

Step 4: Pull Latest Changes

```
git pull origin main
```

Step 5: Install Dependencies (if needed)

```
npm install
```

Step 6: Rebuild Application

```
npm run build
```

Step 7: Restart PM2

```
pm2 restart all
```

Step 8: Check Logs

```
pm2 logs --lines 50
```

Look for:

- ☒ "Discovered X groups (stopped at index Y)" messages
- ☒ No errors about missing zones/groups/sources
- ☒ Successful API responses

Option 2: Deploy Without Merging (Testing)

If you want to test the fix before merging:

Step 1: SSH into Remote Server

```
ssh -p 2222 djd@24.123.87.42
```

Step 2: Navigate to Project and Switch Branch

```
cd /path/to/Sports-Bar-TV-Controller
git fetch origin
git checkout fix/atlas-dynamic-discovery
```

Step 3: Install, Build, Restart

```
npm install
npm run build
pm2 restart all
pm2 logs --lines 50
```

Step 4: Test (see Testing section below)

Step 5: Switch Back to Main (if needed)

```
git checkout main
npm run build
pm2 restart all
```

Testing After Deployment

1. Access Bartender Remote Page

Open in browser: `http://24.123.87.42:3000/remote` (or whatever port the app runs on)

2. Navigate to Audio Tab

- Click on the “Audio” tab
- Click on the “Groups” sub-tab

3. Verify Group Count

Expected: Exactly 6 groups should be displayed:

1. Bar
2. Dining
3. Red Bird
4. Party East
5. Patio
6. Bath Rooms

Before Fix: Would show 8 groups (including 2 non-existent ones)

4. Verify All Groups Show as Active

Expected: All 6 groups should show as “active” (not “inactive”)

5. Verify Source Dropdown

Click on any group and check the source dropdown.

Expected: Exactly 9 sources should be listed:

1. Matrix 1
2. Matrix 2
3. Matrix 3
4. Matrix 4
5. Mic 1
6. Mic 2
7. Spotify

8. Party Room East
9. Party Room West

Before Fix: Would show 14 sources (including 5 non-existent ones)

6. Test Real Hardware Control

1. Select a group (e.g., “Bar”)
2. Change its source (e.g., from “Matrix 1” to “Spotify”)
3. **Verify:** The actual audio in the bar area changes to Spotify
4. Check the Atlas web interface (<http://24.123.87.42:8888>) to confirm the change

7. Check Browser Console

Open browser developer tools (F12) and check the Console tab.

Expected:

- ☒ No errors
- ☒ Messages like “Discovered 9 sources from Atlas device”
- ☒ Successful API responses

Before Fix:

- ☒ Errors about missing groups/zones/sources
- ☒ “No zones or groups created” messages

8. Check PM2 Logs

```
pm2 logs --lines 100
```

Expected:

- ☒ “Discovered X groups (stopped at index Y)” messages
- ☒ No errors about Atlas queries
- ☒ Successful API responses

Troubleshooting

Issue: “Cannot connect to Atlas device”

Solution:

1. Verify Atlas device is online: `ping 192.168.5.101`
2. Check Atlas web interface: <http://24.123.87.42:8888>
3. Verify Third Party Control is enabled in Atlas Settings
4. Check firewall rules allow port 5321

Issue: “Groups still showing as inactive”

Solution:

1. Check Atlas web interface to see if groups are actually active
2. If not, activate them in Atlas: Zones page → Groups section → Click group → Set Active
3. Refresh the bartender remote page

Issue: “Still seeing 8 groups instead of 6”

Solution:

1. Hard refresh browser: Ctrl+Shift+R (or Cmd+Shift+R on Mac)
2. Clear browser cache
3. Verify you pulled the latest code: `git log --oneline -5`
4. Verify the build completed successfully: Check for `.next` directory

Issue: “Source changes don’t control hardware”

Solution:

1. Check PM2 logs for errors: `pm2 logs --lines 100`
2. Verify Atlas device IP is correct: 192.168.5.101
3. Test Atlas connection: `curl http://192.168.5.101:8888`
4. Check Atlas Third Party Control settings

Rollback Plan

If something goes wrong, you can quickly rollback:

Quick Rollback:

```
cd /path/to/Sports-Bar-TV-Controller
git checkout main
npm run build
pm2 restart all
```

Full Rollback (if main is broken):

```
cd /path/to/Sports-Bar-TV-Controller
git log --oneline -10 # Find the commit before the merge
git reset --hard <commit-hash>
npm run build
pm2 restart all
```

Verification Checklist

After deployment, verify:

- [] SSH connection to remote server works
- [] Application is running (check with `pm2 status`)
- [] Bartender remote page loads without errors
- [] Audio tab shows exactly 6 groups (not 8)
- [] All 6 groups show as “active”
- [] Source dropdown shows exactly 9 sources (not 14)
- [] Changing a group’s source controls real hardware
- [] Browser console shows no errors
- [] PM2 logs show no errors

- [] Atlas web interface confirms changes

Expected Results

Before Fix:

- ❌ Application queried for 8 groups (2 non-existent)
- ❌ Application queried for 14 sources (5 non-existent)
- ❌ Application queried for 8 zones (1 non-existent)
- ❌ “No zones or groups created” messages
- ❌ Errors in console and logs
- ❌ Confusion about which groups are real

After Fix:

- ✅ Application queries exactly 6 groups (all real)
- ✅ Application queries exactly 9 sources (all real)
- ✅ Application queries exactly 7 zones (all real)
- ✅ All groups show as “active”
- ✅ No errors in console or logs
- ✅ Clear, accurate display of hardware configuration
- ✅ Real hardware control works perfectly

Support

If you encounter any issues during deployment:

1. **Check PM2 Logs:** `pm2 logs --lines 100`
2. **Check Browser Console:** F12 → Console tab
3. **Verify Atlas Device:** <http://24.123.87.42:8888>
4. **Review PR:** <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/pull/258>
5. **Check Documentation:**
 - `ATLAS_INTEGRATION_ANALYSIS.md`
 - `ATLAS_INTEGRATION_FIX_SUMMARY.md`

Notes

- The SSH connection to the remote server was timing out during development, so these instructions assume you’ll deploy manually
 - The Atlas device is confirmed working and accessible at 192.168.5.101
 - Third Party Control is enabled with correct IP allowlist
 - All changes are backward compatible and safe to deploy
 - The fix ensures the application will work with any Atlas model without code changes
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Success Criteria

Deployment is successful when:

1. ☒ Bartender remote page loads without errors
2. ☒ Exactly 6 groups are displayed (matching Atlas hardware)
3. ☒ All 6 groups show as “active”
4. ☒ Exactly 9 sources are available in dropdowns
5. ☒ Changing sources controls real hardware
6. ☒ No errors in browser console or PM2 logs
7. ☒ User can control audio groups from bartender remote page

Once all criteria are met, the Atlas integration is fully fixed and working correctly!