

Deployment Instructions for Matrix-Atlas Integration

Summary of Changes

This feature branch (`feature/matrix-atlas-video-routing`) has been successfully created and pushed to GitHub. A pull request (#178) has been created and is ready for review.

What Was Implemented

1. Database Schema Updates

- Extended `MatrixOutput` model with `selectedVideoInput` and `videoInputLabel` fields
- Migration file ready to be applied

2. New API Endpoints

- `/api/matrix/video-input-selection` - Video input selection and routing
- `/api/atlas/route-matrix-to-zone` - Atlas zone routing integration

3. UI Enhancements

- Video input selection modal for Matrix outputs (33-36)
- Enhanced Matrix output cards with routing UI
- Real-time label updates

4. Documentation

- Comprehensive feature documentation in `MATRIX_ATLAS_INTEGRATION.md`
- API specifications and usage examples

Manual Deployment Steps

Since the SSH connection timed out, please follow these steps manually on the remote server:

Step 1: SSH into Remote Server

```
ssh ubuntu@24.123.87.42
# Password: 6809233DjD$$$
```

Step 2: Navigate to Project Directory

```
cd ~/Sports-Bar-TV-Controller
```

Step 3: Fetch and Checkout Feature Branch

```
# Fetch latest changes
git fetch origin

# Checkout feature branch
git checkout feature/matrix-atlas-video-routing

# Pull latest changes
git pull origin feature/matrix-atlas-video-routing

# Verify you're on the correct branch
git branch --show-current
# Should show: feature/matrix-atlas-video-routing
```

Step 4: Install Dependencies (if needed)

```
npm install
```

Step 5: Run Database Migration

```
# This will add the new fields to MatrixOutput table
npx prisma migrate dev --name add_video_input_selection

# Generate Prisma client
npx prisma generate
```

Step 6: Build the Application

```
npm run build
```

Step 7: Restart the Application

```
# If using PM2
pm2 restart all

# OR if running manually
kill -f "next dev" || true
kill -f "next start" || true
npm run start &

# OR for development mode
npm run dev &
```

Step 8: Verify Deployment

1. Open browser and navigate to: `http://24.123.87.42:3001`
2. Go to Matrix Control page
3. Click on “Outputs” tab
4. Look for Matrix outputs (channels 33-36)
5. You should see “Matrix Audio Routing” section with “Select Video Input” button

Testing the Feature

Test 1: Video Input Selection

1. Navigate to Matrix Control → Outputs tab
2. Find Matrix 1 (Output 33)
3. Click “Select Video Input” button
4. Modal should appear with available video inputs
5. Click on any video input (e.g., “Cable Box 1”)
6. Verify:
 - Toast notification appears
 - Label updates to match video input
 - Routing state persists after page refresh

Test 2: API Endpoints

```
# Test video input selection
curl -X POST http://localhost:3001/api/matrix/video-input-selection \
  -H "Content-Type: application/json" \
  -d '{
    "matrixOutputNumber": 3,
    "videoInputNumber": 5,
    "videoInputLabel": "Direct TV 1"
  }'

# Get current selections
curl http://localhost:3001/api/matrix/video-input-selection

# Test Atlas zone routing
curl -X POST http://localhost:3001/api/atlas/route-matrix-to-zone \
  -H "Content-Type: application/json" \
  -d '{
    "matrixInputNumber": 3,
    "zoneNumbers": [1, 2, 5]
  }'

# Get routing state
curl http://localhost:3001/api/atlas/route-matrix-to-zone
```

Test 3: Database Verification

```
# Check if migration was applied
npx prisma studio

# Or query directly
sqlite3 ~/Sports-Bar-TV-Controller/prisma/data/sports_bar.db

# Check MatrixOutput table structure
.schema MatrixOutput

# Should show selectedVideoInput and videoInputLabel fields
```

Merging to Main

Once testing is complete and everything works:

Option 1: Merge via GitHub UI

1. Go to: <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/pull/178>
2. Review the changes
3. Click “Merge pull request”
4. Confirm merge

Option 2: Merge via Command Line

```
cd ~/Sports-Bar-TV-Controller

# Switch to main branch
git checkout main

# Pull latest changes
git pull origin main

# Merge feature branch
git merge feature/matrix-atlas-video-routing

# Push to GitHub
git push origin main

# Restart application
pm2 restart all
# OR
npm run start &
```

Troubleshooting

Issue: Migration Fails

```
# Reset migration
npx prisma migrate reset

# Re-run migration
npx prisma migrate dev --name add_video_input_selection
```

Issue: Build Fails

```
# Clear cache
rm -rf .next
rm -rf node_modules

# Reinstall dependencies
npm install

# Rebuild
npm run build
```

Issue: API Returns 404

- Ensure application was rebuilt after pulling changes
- Check that the application is running
- Verify the API route files exist in `src/app/api/`

Issue: Modal Not Appearing

- Check browser console for errors
- Verify MatrixControl component was updated
- Clear browser cache and refresh

Rollback Instructions

If you need to rollback:

```
cd ~/Sports-Bar-TV-Controller

# Switch back to main branch
git checkout main

# Pull latest main
git pull origin main

# Restart application
pm2 restart all
```

Support

For issues or questions:

- Check application logs: `tail -f ~/app.log`
- Check PM2 logs: `pm2 logs`
- Review documentation: `MATRIX_ATLAS_INTEGRATION.md`
- Check database: `npx prisma studio`

GitHub Pull Request

- **PR Number:** #178
- **PR URL:** <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/pull/178>
- **Branch:** feature/matrix-atlas-video-routing
- **Status:** Open and ready for review

Important Notes

1. **Database Migration:** The migration adds new fields but does NOT modify existing data
2. **Backward Compatibility:** This feature is fully backward compatible
3. **No Breaking Changes:** Existing functionality remains unchanged
4. **GitHub App Access:** Ensure you have given access to the [GitHub App](https://github.com/apps/abacusai/installations/select_target) (https://github.com/apps/abacusai/installations/select_target) for full functionality

Next Steps After Deployment

1. Test video input selection on all Matrix outputs (1-4)
2. Verify Wolfpack commands are sent correctly
3. Test Atlas zone routing integration
4. Monitor application logs for any errors

5. Gather user feedback
 6. Merge PR to main when ready
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Deployment Date: October 9, 2025

Feature Branch: feature/matrix-atlas-video-routing

Pull Request: #178

Status: Ready for manual deployment and testing