

Atlas Configuration Restoration Guide

Critical Issue: Configuration Wipe Bug

What Happened

The upload/download configuration feature had a critical bug that **generated random configuration data** instead of reading from the actual Atlas processor. When users clicked "Download Config", it would:

1. Generate random input/output settings
2. Overwrite the saved configuration file
3. Wipe out all carefully configured settings

Root Cause

The `src/app/api/atlas/download-config/route.ts` file was generating random data for testing purposes, but this code was left in production. When users downloaded configuration, it replaced their real settings with random values.

The Fix

Fixed Files:

1. `src/app/api/atlas/download-config/route.ts` - Now reads from saved configuration file instead of generating random data
2. `src/app/api/atlas/upload-config/route.ts` - Now saves configuration to file system BEFORE attempting processor upload

Atlas Configuration Backup Location

- **Primary Config:** `/home/ubuntu/Sports-Bar-TV-Controller/data/atlas-configs/cmjgxa5ai0000260a7xuipejll.json`
- **Backups:** `/home/ubuntu/Sports-Bar-TV-Controller/data/atlas-configs/cmjgxa5ai0000260a7xuipejll_backup_*.json`

Restored Configuration Summary

From backup file `cmjgxa5ai0000260a7xuipejll.json` :

Inputs (7 configured):

1. Matrix 1 - Line input, -17dB gain, routes to outputs 3,5
2. Matrix 2 - Line input, -18dB gain, routes to output 4
3. Matrix 3 - Line input, -3dB gain, routes to outputs 1,6
4. Matrix 4 - Line input, +2dB gain, routes to output 7
5. Mic 1 - Microphone, -18dB gain, compressor enabled, routes to outputs 2,7
6. Mic 2 - Microphone, -4dB gain, compressor enabled, routes to outputs 1,4,5,3
7. Spotify - Line input, -17dB gain, routes to outputs 3,5,2

Outputs (7 configured):

1. Bar - Speaker, -20dB, 48ms delay, limiter enabled
2. Bar Sub - Speaker, -17dB, 94ms delay, limiter enabled
3. Dining Room - Speaker, -27dB, 46ms delay, limiter enabled
4. Party Room West - Speaker, -11dB, 77ms delay, compressor + limiter

- 5. Party Room East - Speaker, -13dB, 22ms delay, limiter enabled
- 6. Patio - Speaker, -19dB, 44ms delay, MUTED, compressor + limiter
- 7. Bathroom - Speaker, -19dB, 88ms delay, limiter enabled

Scenes (3 configured):

- Scene 1, 2, and 3 with various input/output level presets

Atlas Processor Information

Connection Details

- **IP Address:** 192.168.5.101
- **Port:** 80 (HTTP)
- **Model:** AZMP8 (8 inputs, 8 outputs, 8 zones)
- **Authentication:** HTTP Basic Auth
- Username: admin
- Password: admin (base64 encoded in database)
- **Status:** Online and reachable

Database Configuration

- **Processor ID:** cmgjxa5ai0000260a7xuiepjl
- **Name:** Graystone Alehouse Main Audio
- **Database:** /home/ubuntu/Sports-Bar-TV-Controller/prisma/data/sports_bar.db
- **Table:** AudioProcessor

How to Prevent Future Data Loss

1. Always Backup Before Changes

```
# Manual backup command
cd /home/ubuntu/Sports-Bar-TV-Controller
cp data/atlas-configs/cmgjxa5ai0000260a7xuiepjl.json \
  data/atlas-configs/cmgjxa5ai0000260a7xuiepjl_manual_backup_$(date +%Y%m%d_%H%M%S).j
son
```

2. Verify Configuration After Download

After clicking “Download Config”, always verify that the displayed settings match your expectations. If they look wrong, DO NOT save them.

3. Use the Atlas Web Interface Directly

For critical configuration changes, access the Atlas processor directly:

- URL: http://192.168.5.101
- Username: admin
- Password: admin

4. Regular Automated Backups

The system has automated daily backups at 3:00 AM:

- Location: /home/ubuntu/Sports-Bar-TV-Controller/backups/
- Retention: 14 days

Restoration Process

If Configuration Gets Wiped Again

1. **Stop the application:**

```
bash
pm2 stop sports-bar-tv-controller
```

2. **Restore from backup:**

```
bash
cd /home/ubuntu/Sports-Bar-TV-Controller/data/atlas-configs
# Find the most recent backup
ls -lt cmgjxa5ai0000260a7xuiexpl_backup_*.json | head -n 1
# Copy it to the main config file
cp cmgjxa5ai0000260a7xuiexpl_backup_TIMESTAMP.json cmgjxa5ai0000260a7xuiexpl.json
```

3. **Restart the application:**

```
bash
pm2 restart sports-bar-tv-controller
```

4. **Verify in UI:**

- Navigate to Audio Control Center
- Check that inputs and outputs show correct names and settings

Atlas AI Monitor

Issue

The Atlas AI Monitor was showing errors because it requires real-time meter data from the Atlas processor.

Status

The AI Monitor component is functional but requires:

1. Active AudioInputMeter data in the database
2. The Atlas processor to be online and sending meter data
3. Proper configuration of the meter monitoring service

To Enable Full AI Monitoring

The meter monitoring service needs to be configured to poll the Atlas processor regularly and store meter readings in the database.

Wolf Pack Tests

Status

Wolf Pack tests are working correctly. The previous database schema fixes resolved the test logging issues.

Test Endpoints

- Connection Test: `/api/tests/wolfpack/connection`
- Switching Test: `/api/tests/wolfpack/switching`

Both tests properly log results to the TestLog table with correct data types.

Important Notes

1. **Atlas Configuration is Independent:** The Atlas processor maintains its own configuration internally. The application's configuration files are for reference and UI display only.
2. **No Direct Atlas API:** The current implementation does not directly communicate with the Atlas processor's API for configuration changes. All configuration is stored locally in JSON files.
3. **Future Enhancement:** To enable true bidirectional sync with the Atlas processor, the Atlas HTTP API endpoints need to be properly documented and implemented.

Troubleshooting

Atlas Shows Offline

1. Check network connectivity: `ping 192.168.5.101`
2. Check port accessibility: `nc -zv 192.168.5.101 80`
3. Verify Atlas processor is powered on
4. Check firewall rules

Configuration Not Loading

1. Check file exists: `ls -l /home/ubuntu/Sports-Bar-TV-Controller/data/atlas-configs/cmjxa5ai0000260a7xuietj1.json`
2. Verify JSON is valid: `cat file.json | python3 -m json.tool`
3. Check file permissions: `chmod 644 file.json`

AI Monitor Shows Errors

1. Verify AudioProcessor exists in database
2. Check that processor status is 'online'
3. Ensure meter monitoring service is running
4. Check API endpoint: `curl -X POST http://localhost:3001/api/atlas/ai-analysis -H "Content-Type: application/json" -d '{"processorId":"cmjxa5ai0000260a7xuietj1","processorModel":"AZMP8"}'`

Contact Information

For Atlas processor technical support:

- Manufacturer: AtlasIED
- Product: Atmosphere AZMP8
- Documentation: <https://www.atlasied.com/atmosphere>

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