Scheduler & Wolfpack Integration Enhancement

Overview

Enhanced the TV scheduler system to integrate directly with Wolfpack (Matrix) output configuration, allowing you to designate specific TVs for automatic daily turn-on/off directly from the Matrix Control interface.

New Features

1. Daily Turn-On/Off Configuration in Matrix Control

Location: Matrix Control → Outputs Section

Each Wolfpack output now has two new toggle options:

- * Daily Turn On Mark this TV for automatic morning power-on
- Daily Turn Off Mark this TV for automatic nightly power-off

How to Configure:

- 1. Go to Matrix Control page
- 2. Click "Outputs" tab
- 3. For each TV output, you'll see checkboxes for:
- Daily Turn On
- Daily Turn Off
- 4. Check the appropriate boxes based on your needs
- 5. Save configuration

Database Changes:

- Added dailyTurnOn boolean field to MatrixOutput model
- Added dailyTurnOff boolean field to MatrixOutput model

2. Enhanced Scheduler Interface

New API Endpoint: /api/matrix/outputs-schedule

This endpoint provides:

- List of outputs configured for daily turn-on
- List of outputs configured for daily turn-off
- List of available outputs (not assigned to daily operations)

Scheduler Page Enhancements:

Output Schedule Info Panel

When creating/editing a schedule, you now see:

- * Configured for Daily Turn-On: Shows which TVs are set to turn on automatically
- Uconfigured for Daily Turn-Off: Shows which TVs are set to turn off automatically
- Available for Custom Schedules: Shows how many TVs are available for other schedules

Visual Indicators

In the output selection list, each TV shows:

- 🔆 icon if configured for daily turn-on
- icon if configured for daily turn-off

This makes it easy to see which TVs are already assigned to daily operations.

Use Cases

Use Case 1: Basic Daily Operations

Scenario: Main bar area opens at 9 AM, closes at 2 AM

Setup:

- 1. In Matrix Control, mark main bar TV outputs with "Daily Turn On"
- 2. Mark same outputs with "Daily Turn Off"
- 3. In Scheduler:
- Create "Morning Turn On" schedule for 8:55 AM
- Create "Nightly Turn Off" schedule for 2:00 AM
- Both schedules automatically include daily-configured outputs

Use Case 2: Staggered Opening Times

Scenario: Main bar opens at 9 AM, side room opens at 11 AM

Setup:

- 1. In Matrix Control:
- Mark main bar TVs with "Daily Turn On"
- Leave side room TVs unmarked
- 2. In Scheduler:
- Create "Main Bar Morning" schedule for 8:55 AM (uses daily-configured outputs)
- Create "Side Room Opening" schedule for 10:55 AM (manually select side room outputs)

Use Case 3: Special Event Rooms

Scenario: Party room only opens on weekends or by reservation

Setup:

- 1. In Matrix Control:
- Don't mark party room TVs for daily turn-on/off
- 2. In Scheduler:
- Create weekend-only schedule for party room
- Create on-demand schedules for special events

Use Case 4: Game Day Automation

Scenario: Turn on additional TVs when home team games are detected

Setup:

- 1. In Matrix Control:
- Mark essential TVs for daily turn-on
- Leave game-day TVs unmarked
- 2. In Scheduler:
- Create game-based schedule that:
- Monitors home teams

- Auto-finds games
- Turns on additional TVs when games detected

Migration Required

Important: After pulling these changes, you must run:

```
cd ~/Sports-Bar-TV-Controller
yarn prisma db push
```

Or manually add the fields to existing outputs:

```
cd ~/Sports-Bar-TV-Controller
sqlite3 prisma/dev.db
"ALTER TABLE MatrixOutput ADD COLUMN dailyTurnOn BOOLEAN DEFAULT 0;"
sqlite3 prisma/dev.db "ALTER TABLE MatrixOutput ADD COLUMN dailyTurnOff BOOLEAN
DEFAULT 0;"
```

Files Modified

Schema Changes

• 🗸 prisma/schema.prisma - Added dailyTurnOn and dailyTurnOff fields to MatrixOutput

Component Updates

- 🗸 src/components/MatrixControl.tsx Added daily turn-on/off toggles to output configuration
- 🗸 src/app/scheduler/page.tsx Enhanced with output schedule info display

New API Endpoints

• 🗸 src/app/api/matrix/outputs-schedule/route.ts - Get/update output scheduling settings

Benefits

1. Centralized Configuration

- Configure daily turn-on/off right where you configure TV labels and settings
- No need to remember which TVs to select in scheduler each time

2. Flexible Scheduling

- Daily-configured TVs for routine operations
- Manually select additional TVs for special schedules
- · Mix and match as needed

3. Visual Clarity

- See at a glance which TVs are assigned to daily operations
- Icons (﴿) make it easy to identify configured TVs
- Prevents accidentally creating conflicting schedules

4. Reduced Errors

Less manual selection = fewer mistakes

- Clear separation between daily and special schedules
- · Documentation built into the interface

Example Workflow

Initial Setup (One-Time)

```
    Go to Matrix Control → Outputs
    For each TV:

            Main Bar TVs → Daily Turn On, ✓ Daily Turn Off
            Dining Area TVs → Daily Turn On, ✓ Daily Turn Off
            Party Room TVs → Leave unchecked
            Game Day TVs → Leave unchecked

    Save Configuration
```

Create Daily Schedules

Create Special Schedule

```
    Create "Game Day Extra TVs" schedule:

            Type: Game-based
            Monitor Home Teams: 
            Select additional game-day TVs manually
            These won to conflict with daily schedules
```

Testing

After setup, verify:

1. Matrix Control:

- Open Outputs tab
- Verify checkboxes saved correctly
- Icons appear: 🔆 for turn-on, 🌙 for turn-off

2. Scheduler:

- Create new schedule
- Check "Output Schedule Info" panel appears
- Verify daily-configured TVs listed correctly
- Verify icons (*) appear next to configured outputs

3. Functionality:

- Save a schedule with daily-configured outputs
- Execute schedule manually
- Verify correct TVs power on/off

Future Enhancements

Potential additions:

- Bulk selection: "Select all daily turn-on TVs"
- Schedule templates based on daily configuration
- Conflict detection for overlapping schedules
- Auto-generate daily schedules when outputs configured

Date: October 1, 2025

Status: **✓** Ready to use (after migration)

Impact: Enhanced scheduler flexibility and usability