

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Prayer Times, Adhan Player & Islamic Calendar

What this is

This is an application built specifically for those Muslims who live in non-Islamic countries and cannot hear adhan (or azan) - the call to prayer - 5 times a day. That's not to say you can't use it if you live in an Islamic country. It was built for use in our house, but we thought it's something nice to share. We hope that it is useful - may Allah be pleased with it.

Adhan Player

To stream adhan, just head on over to <https://aladhan.com/play>, select your timezone and location and leave the browser open. The application will compute the time for all 5 daily prayers and play adhan automatically.

TIMINGS

Imsak	Fajr	Sunrise
03:48	03:58	05:28
Dhuhr	Asr	Sunset
12:21	15:41	19:11
Maghrib	Isha	
19:11	20:38	
First Third	Midnight	Last Third
22:34	00:18	02:01

PRAYER CALCULATIONS

Automatic

Method: Dubai (experimental)

Parameters: Fajr angle 18.2°, Isha angle 18.2°

Latitude Adjustment Method: ANGLE_BASED

Midnight Mode: STANDARD

School: STANDARD

Open Source

The AlAdhan.com Web App and REST API are now open source. Contribute @ <https://github.com/islamic-network>.

Prayer Times API

This application has a RESTful [prayer times API](#) that you can use for:

- Computing prayer times and prayer time calendars via co-ordinates
- Computing prayer times and prayer time calendars via city and country
- Computing prayer times and prayer time calendars via an address
- Computing geographic co-ordinates and timezone by city and country

Islamic / Hijri Calendar API

This application has a RESTful [Islamic calendar API](#) that you can use for:

- Gregorian to Hijri Date Conversion
- Hijri to Gregorian Date Conversion
- Gregorian Calendar with Hijri Dates
- Hijri Calendar with Gregorian Dates

Reference: <https://aladhan.com/>

1 - DISCLAIMER

1.1 - The TIGPrayerTimeAPI Extension Driver is designed for integration into Crestron Home using the API above, this allows Muslims to view their timings and Muslims specifically who live in non-Islamic countries that cannot hear adhan (or azan).

1.2 SUPPORTED FEATURES IN THIS VERSION:

This driver will support the calculated times for (Imsak, Fajr, Sunrise, Dhuhr, Asr, Sunset, Maghrib, Isha, First Third, Midnight, Last Third.) of the current date for a 5 Day projection. Calculation methods can also be changed within the driver for precise timings.

1.3 - HARDWARE REQUIRED:

Crestron series 4 family home processor: MC4-R / CP4-R / DIN-AP4-R

1.4 - SOFTWARE REQUIRED:

Crestron Home OS 3 / OS 4 or later with DNS internet connection.

API -- <https://aladhan.com/>

1.5 - NETWORK TOPOLOGY:

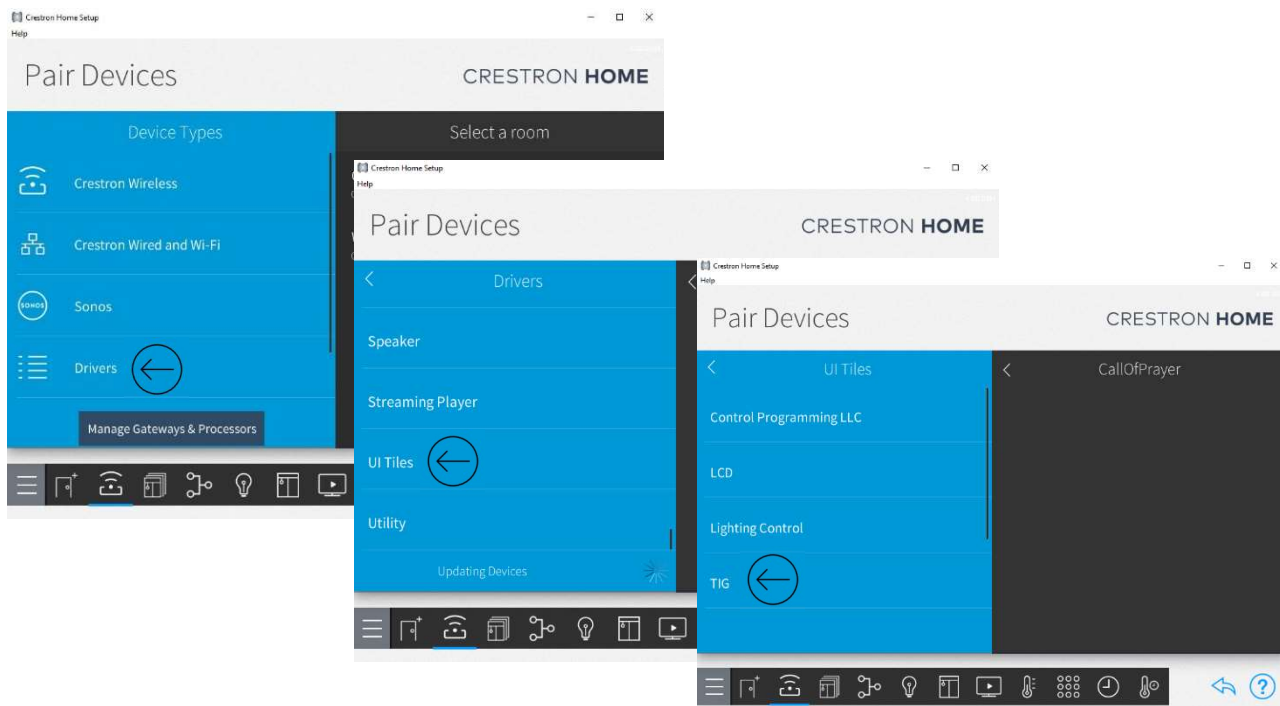
Ensure that port 80 is accessible from the Processor to facilitate necessary standard communications.

2.0 - ADDING THE TIGPRAYERTIMEAPI EXTENSION TO CH

The TIGPRAYERTIMEAPI extension will be found under the following location on the CH configurator software:

For the first upload the driver will take up to 60 Seconds to gather all information from when both coordinates have been specified.

Device Types > Drivers > UI Tiles > TIG



2.1 - CONFIGURING TIGPRAYERTIMEAPI EXTENSION

Upon installing the driver, you will be prompted to enter the Latitude and Longitude of your current location. The latitude 25.276987 as example must have exactly 6 digits after the decimal point. The longitude 55.296249 must have exactly 6 digits after the decimal point. Both latitude and longitude can contain “-” in front of the coordinates. The driver will default to the closest authority based on the location or co-ordinates specified in the API call. For further adjustments if needed one will have the following selections available on UI:

-- Automatic (default to the closest authority)

* 0 - Shia Ithna-Ashari

1 - University of Islamic Sciences, Karachi

2 - Islamic Society of North America

3 - Muslim World League

4 - Umm Al-Qura University, Makkah

5 - Egyptian General Authority of Survey

7 - Institute of Geophysics, University of Tehran

8 - Gulf Region

9 - Kuwait

10 - Qatar

11 - Majlis Ugama Islam Singapura, Singapore

12 - Union Organization islamic de France

13 - Diyanet İşleri Başkanlığı, Turkey

14 - Spiritual Administration of Muslims of Russia

15 - Moonsighting Committee Worldwide (also requires shafaq parameter)

16 - Dubai (unofficial)

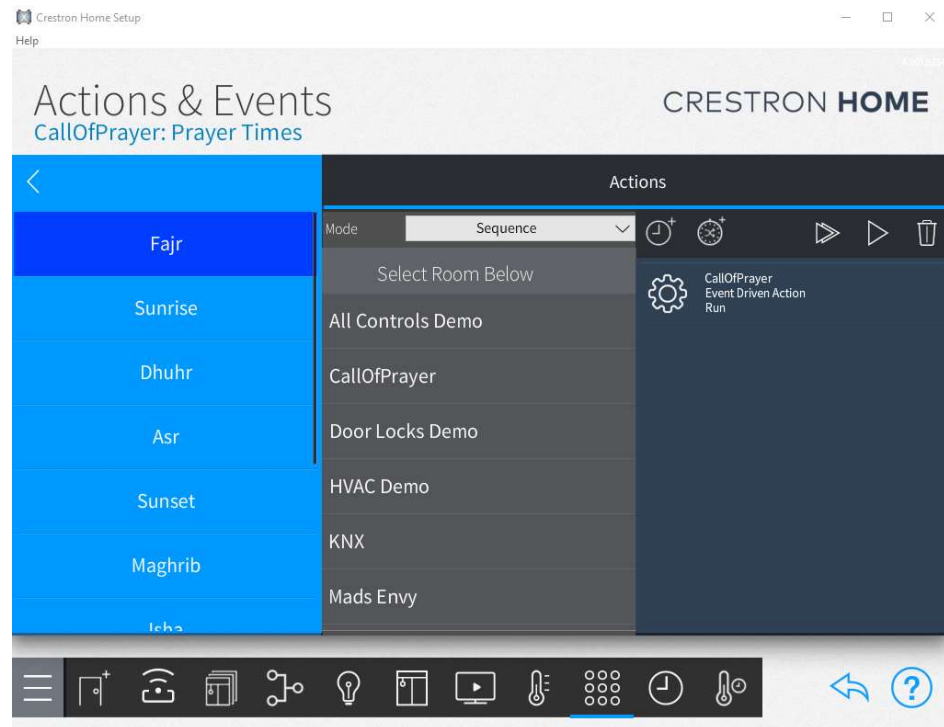
Automatic	>
Shia Ithna-Ashari	>
University of Islamic Sciences, Karachi	>
Islamic Society of North America	>
Muslim World League	>
Umm Al-Qura University, Makkah	>
Egyptian General Authority of Survey	>
Institute of Geophysics, University of Tehran	>
Gulf Region	>
Kuwait	>
Qatar	>
Majlis Ugama Islam Singapura, Singapore	>
Union Organization islamic de France	>
Diyanet İşleri Başkanlığı, Turkey	>
Spiritual Administration of Muslims of Russia	>
Moonsighting Committee Worldwide	>
Dubai (unofficial)	>

EVENTS

Quick actions can be linked to Events for timing triggers as seen in this example using CH Configurator.

Timing Events include:

- Imsak
- Fajr
- Sunrise
- Dhuhr
- Asr
- Sunset
- Maghrib
- Isha
- First Third
- Midnight
- Last Third



RELEASE NOTES:

Version 1.0.0 – Initial Release

Features: 5 Day Projection, Timings (Imsak, Fajr, Sunrise, Dhuhr, Asr, Sunset, Maghrib, Isha, First Third, Midnight, Last Third), Method Selector (0 to 16) for authority based on the location or co-ordinates, Events for all Timings.