Release Version:	2.0.1	Released By:	RUN3TV / Yotta
Date Released:	11 August 2023	Tested By:	Yotta
Platform(s) tested:	Samsung (2021 and 2022) LG (2020, 2021 and 2023) Sony (2021 and 2022) Emulator (Version Number: 1.2.28)		
Host Platform(s):	Linux, Win 10, MacOS		
Git:	Not Applicable		
NPM:	https://www.npmjs.com/package/@a3fa/a3fa-broadcaster-starter-kit		

INFORMATION RELATING TO THIS RELEASE

SUMMARY:

This release contains the ATSC 3.0 Application Framework version 2.0.1 as well as a separate Broadcaster starter kit.

In this Starter kit, the 'Common Application' that has been used for some years has now been superseded by the new 'Q-Bar application'. The starter kit contains FOUR services with each service carrying a different test application.

This release contains all the features of the release v2.0 (released on 22 June 2023) PLUS the following:

- Updated Settings panel.
- New User Preferences panel.
- Support for disabling Alerts.
- Support for over-riding and/or hiding user location.
- Support for <callsign> tag replacement.
- Updated Framework with support for Event Streams.
- Fix for Audio playback when using emulator in Chrome browser. Audio can now be toggled (ON / OFF) by clicking on the GSID text in the small remote-control window.
- Improved Data metrices – Addition of new Heartbeat and Captions status.
- Ability to isolate a device manufacturer or combination of different receivers at both Framework as well as application level.

This is a formal release which is now available on npm site. It is now released for general use so that equipment manufacturers and system integrators can utilize it for further development and integration activities. This release can be installed in two ways:

1. Fresh Install

If installing a fresh copy, please follow the instructions exactly as outlined in the Readme file at npm site. The link is also shown on the first page of this document.

After installation, run the default Q-Bar application (found on ServiceID/3), go to SETTINGS / System

Info section, and verify that the FMW version is as follows:

Framework: v2.0.1 (Thu Aug 10 2023 13:37:48)

2. <u>Updating your existing 2.0 installation</u>

Before updating your existing release, run the default Q-Bar application, go to SETTINGS / System Info section, and verify that the FMW version is as follows:

FMW build: v2.0.0 (2023-06-22 11:42:23)

Updating your current installation requires executing the following commands. To update your current v.2.0 installation:

1. First go to your (working) current 2.0 directory and run the following command:

```
$ npx @a3fa/a3fa-broadcaster-starter-kit@latest
```

Then execute:

```
$ npm i
```

Now, depending on your needs, you can execute the appropriate 'build' command.

For example, to build the entire starter kit, run the following command:

```
$ npm run build
```

The command (above) will build the entire starter kit with new /public/ folder. Your existing /public/ folder will be automatically backed-up and stored in a zip file at root level.

This concludes the update process. Run the default Q-Bar application by executing the appropriate command. For windows platform, the command is as follows:

```
$ npm run win conf="./emulator/atscCmd-2023.mc.json"
```

This should automatically open your browser and load the default starter kit.

NOTE: Users can switch between different services by pressing 'Up' or 'Down' buttons using on-screen remote control.

After updating your existing release and upon running the Q-Bar application (found on ServiceID/3), go to SETTINGS / System Info section and verify that the FMW version is as follows:

Framework: v2.0.1 (Thu Aug 10 2023 13:37:48)

NOTE: As an example, you could also update just the framework libraries by executing (npm run

build:framework) command.

See package.json file for further details.

BUG FIXES	Bugs listed below have also been fixed in this release.
	None

TESTING CONDUCTED

FEATURE TESTING

All the newly added features (listed above) have been tested on a variety of TVs (Receivers) in Yotta London Labs and are working as expected.

STATE OF CONFIGURATION CHANGES APPLIED TO THIS RELEASE

CONFIG CHANGES	Configuration changes applied in this release
FRAMEWORK	• Event Stream mechanism support • Event Stream listener update • Location / Callsign / Data Metrices • SnoozeMode - configured in fmw.json and appsList.json files • Settings / Preferences • Storage and session cookies – Clear function • Captions Status
Q-BAR APP	• Updated Settings and Preferences • Updated System Information panel • Audio support in Browser / Emulator mode
EMULATOR	• Updated with Audio support
STARTER KIT CONFIGURATION	The FOUR services are configured as follows: **1. tag:run3tv.org,2023:globalServiceID/1**

This service contains no application and is included for exception handling tests.

2. tag:run3tv.org,2023:globalServiceID/2

This service contains FIELD TEST Application for data metrices + background A/V.
Application is delivered via broadband internet. (OTT)

3. tag:run3tv.org,2023:globalServiceID/3 (OTT)

<u>This service contains the new Q-Bar application.</u>

4. tag:run3tv.org,2023:globalServiceID/6 (OTT)

1. This service contains the older Common App. It has an example BAAppear image / text and 'Default Blue Menu application + background A/V.
2. Application is delivered via broadband internet. (OTT)
3. This service also contains the following:
   o Google DAI (see DASH section under FEEDS)
   o Madhive DAI (see HLS section under FEEDS)
   o Live stream support (see HLS section under FEEDS)

Note: This service contains the Common application as per release 1.11 (Service 3).