# Independent watchOS app

watchus app

### History

**June 2015** 

• Bugs watch app release

**March 2019** 

• Bugs 5.0 watch app release

**April 2015** 

Watch series 1 release

Sep. 2017

- Watch series 3 release
- Cellular supported

Sep. 2018

- Watch series 4 release
- Audio feature supported
  - 1. Playback
  - 2. Audio control
- 3. Background mode

Sep. 2019

- Watch series 5 release
- Independent app supported

### Independent watchOS app





## Topics

- Authentication Users
- Keeping contents up to date
- Play Streaming

#### Authentication Users

Users must be able to set up the application directly on Apple Watch

- 1. Sign in with Apple (Recommended)
- 2. Input ID/Password with iPhone/iPad
- 3. Facebook, Payco

#### Keeping contents up to date

#### 1. Watch Connectivity Framework

- Bluetooth based technology between iOS device and watch device
- Bugs 5.0 watch app's main protocol
- Strong: Reliability
- Weak: Dependent on iOS Device



#### Keeping contents up to date

#### 2. Cloudkit to store data in the cloud

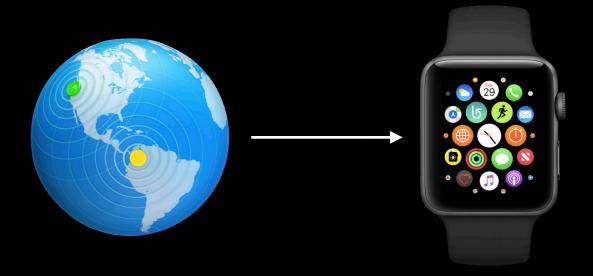
- Save data in an iCloud container, sharing that data across all the user's iCloud-connected devices
- Strong: Connectivity
- Weak:
  - 1. Difficulty
  - 2. Not used yet
  - 3. Not all users use this iCloud service



#### Keeping contents up to date

#### 3. Use Cellular or WiFi network

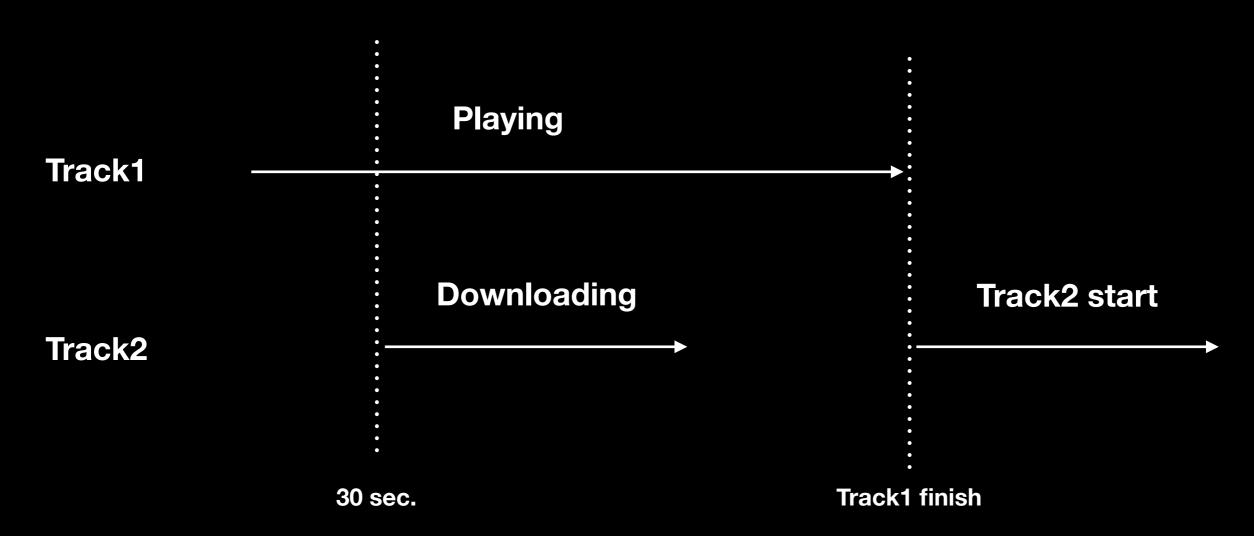
- WatchOS app can connect directly to web services and other online sources
- Strong: Common
- Weak: Playlist cannot be synchronized



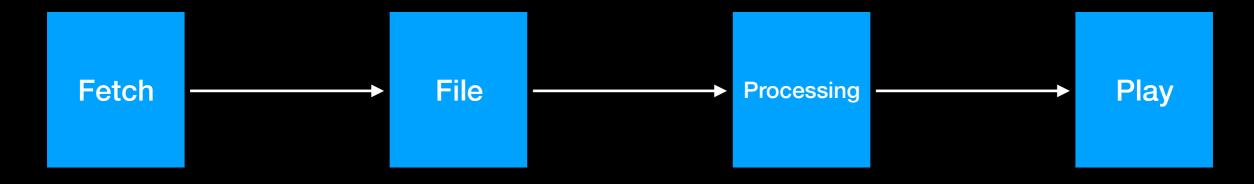
Background audio in your app to provide a seamless playback experience.

Formats supported AAC-LC, AAC-ELD, HE-AAC, HE-AACv2, MP3

#### **Testing scenario**



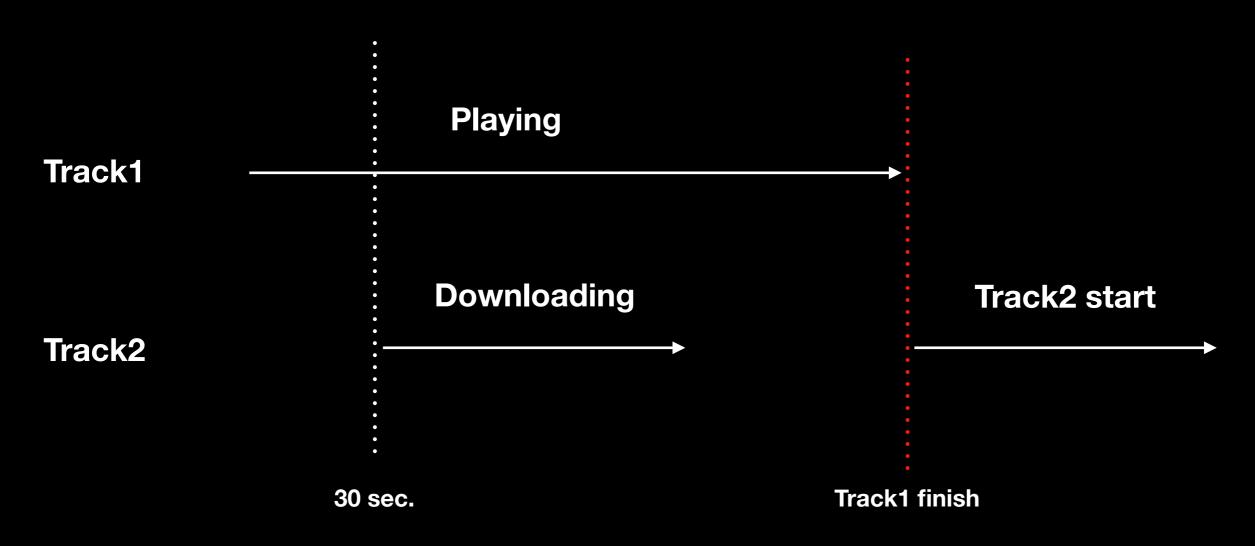
#### **Problems**



- Effect
- Equalizer

iOS: AudioToolBox Framework watchOS: AudioEngine Framework

#### **Testing scenario**



### Summary

- Authentication Users
- Keeping contents up to date
- Play Streaming

### Examples



# Q & A