

The background features a dense field of 3D-rendered numbers in various sizes and orientations, creating a textured, light blue-grey surface. The numbers are scattered across the entire frame, with some appearing larger and more prominent than others.

# Zepp OS v3.0

API Development Updates

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# 1. Universal development

## Automatic UI adaptation for target devices

- Deploy applications on all devices by providing a UI layout, which is based on the screen shape of round, square, or band, so developers don't need to adapt repeatedly
- Flexibility of adaptation for a specific device
- It's an absolute coordinate layout based on the JS widget, relative layout will be supported in the future



## 2. Background services

Launch the JS application in the background without the user being aware of it

- Support background services, including resident background services and short-running services
- Short-running services are expected to run and quit in a short time. It will be terminated after expiring a specific duration
- The number of resident services is limited. End users can choose which service runs in the background.
- Alarms, system events, and other mechanisms can trigger 4 Short-running services.

# 3. Canvas

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## Develop UI freely

1. Provides drawing on a canvas where you can create UI
2. The number of canvas will be typically limited to 3





## 4. System event

- New feature to listen for health and system events through system monitoring. (Ex: abnormal heart rate, power saving mode status, sunrise, and sunset, etc.)



## 5. Access to the notification center

Support applications to send notifications to the notification center

## 6. More data

### Health data, accelerometer, gyroscope, compass

- More insight on health data such as sleep, blood oxygen, stress, etc.
- Support compass data query after system calibration
- Support 6-axis sensor data, including accelerometer and gyroscope raw data



## 7. Speaker and Microphone Access

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### Access to the watch's speaker and microphone

1. File-based music playback
2. Recording audio to file or buffer
3. Player support mp3, opus format





# 8. BLE master API

## Connect the peripheral device to your application

- APIs for BLE master device scanning and connection
- User protocol based on profile
- Support for parsing Bluetooth advertising packets





# Thank you

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**Speaker:** Qin Li

- **Slack v3.0 Preview Feedback (Private Channel):** <https://zeppcommunity.slack.com/archives/C04JXMWR2BF>
- **GitHub v3.0 Preview:** <https://github.com/zepp-health/zeppos-samples/tree/os3.0-preview/application/3.0-preview/>
- **Zepp OS v3.0 Preview Document:** <https://docs-testing.zepp.com/zh-cn/docs/next/reference/app-json/>