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SDK API

initialize

Initialize the SDK.

```
void initialize(Context context, DeviceListener listener)
```

Parameters

- context : application context.
- listener : A callback listener that receives callback data from the device.

> Refer to DeviceListener Class

> If this function is not called, the SDK will not work properly.
> It should be called as soon as possible after running the application.

run

Run the SDK service.

```
int run()
```

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

> The SDK was developed for use with a single application.
> It requires caution because it is not used concurrently in other applications.

getVersion

Get the SDK/Firmware version.

```
int getVersion(Version version)
```

Parameters

- version : SDK/Firmware version

> Refer to Version Class

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

setCardType

Set the RF card type.

```
int setCardType(int cardType)
```

Parameters

- cardType : Parameters

No.	Description
1	HIGH_FREQUENCY
2	HIGH_FREQUENCY_ICLASS
3	LOW_FREQUENCY
4	LOW_FREQUENCY_PROX

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

connectFtpServer

connect to the FTP server.

```
int connectFtpServer(FirmwareOption option)
```

Parameters

- `option`: Firmware file option.

> Refer to FirmwareOption Class

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

> To use the firmware upgrade function, you need to build an FTP server.
> The API acts as an FTP client.
>
> To use the API, Android applications require the following permissions:
>
> ```
> <uses-permission android:name="android.permission.INTERNET"/>
> <uses-permission
> android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
> ```

disconnectFtpServer

Disconnects to the FTP server.

```
int disconnectFtpServer()
```

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

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> The API acts as an FTP client.
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> To use the API, Android applications require the following permissions:

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<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
```

getFtpFileList

Get a list of file names for the FTP server.

```
int getFtpFileList(ArrayList<String> fileList)
```

Parameters

- `fileList`: List of file names

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

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> To use the API, Android applications require the following permissions:

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```

upgradeFirmware

Copy the upgrade file to the specified firmware file.

```
int upgradeFirmware(FirmwareOption option)
```

Parameters

- `option`: Firmware File Option

> Refer to FirmwareOption Class

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

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> ```

rebootDevice

Reboot the device.

```
int rebootDevice()
```

Return Code

Returns "SUCCESS" if successfully launched; returns the corresponding error code if an error occurs.

> The firmware will be upgraded at device reboot.

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