



亿晟科技
YISHENG ELECTRONICS

Shenzhen Yisheng Technology Co., Ltd.

The API Reference Documentation

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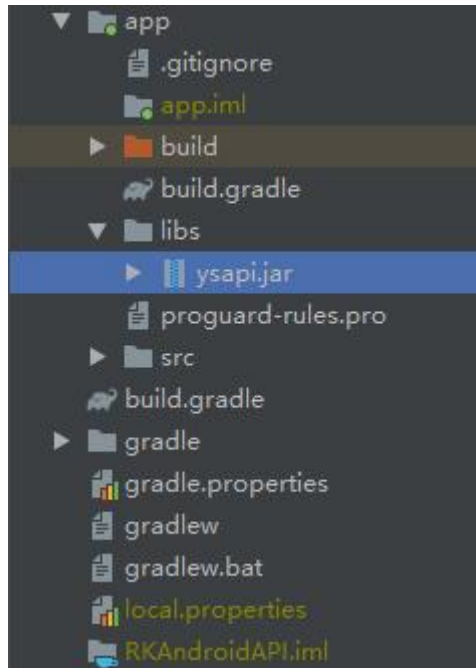
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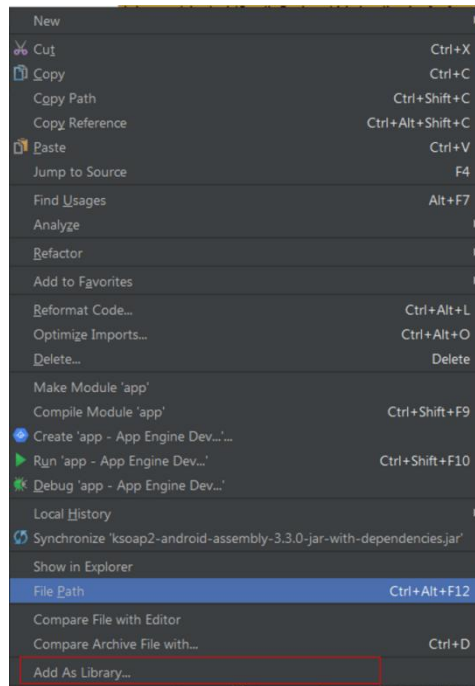
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Chapter 1 How to use the API in the Android Studio

- (1) Copy “ysapi.jar” to [engineering directory \ app \ libs \]



- (2) Right click on jar file in “libs” folder select “add as Library...”, then select “Model”, which can also be imported successfully



Note: All API calls

(1.) API version V5.3-20211028 started in order to realize platform unification and change all API calls to AIDL mode, AIDL establishes the service connection at the ms level and returns the IBinder implementation directly with the server method, so the call method once when the program starts running. When the registered component is destroyed, pay attention to cancel the registration, call the method `mMyManager.unbindAIDLService (This);` suggest that the initialization interface can be executed in the `onCreate()` of Application or Activity;

(2.) All API interfaces are called according to the description of this document. If the method in the API is compatible with the old version of API, the call in the current version is invalid;

Call method:

1, Initialize instance

```
MyManager  mMyManager = MyManager.getInstance(this);
```

2. Bind AIDL service

```
mMyManager.bindAIDLService(this);
```



3. Set AIDL callback

```
mMyManager.setConnectClickInterface(new MyManager.ServiceConnectedInterface()
{
    @Override

    public void onConnect() {

        // The callback is successful, and the interface can be called normally

        // For Example: mMyManager.getApiVersion();

    }

});
```

Chapter 2 Get system information

2.1 Get API version-date information

Function: public String getApiVersion ()

Description: get the current API version-date information

The API version of interface: V1.0-20180602

```
/**
 * @method getApiVersion()
 * @description get the current API-version-date information, if the API is modified, you need to modify here
 * @date 20180602
 * @author sky
 * @return version information of the current API
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Version-date	V1.0-20180602

Example:

```
My Manager manager = MyManager.getInstance(this);
```

```
Log.d(TAG,"API Version = " + manager.getApiVersion());
```

```
// Output APIINFO: API Version = V1.0-20180602
```

2.2 Get the model number of the device

Function: public String getAndroidModle()

Description: get the model number of the current device

The API version of this interface: V1.0-20180602

```
/**
 * @method getAndroidModle()
 * @description get the current device model, such as rk3288, rk3399
 * @date 20180602
 * @author sky
 * @return device model number
 */
```



Parameter name / Return value	Type	Description	Example
Returned value	String	Model-device	Mstar Android TV

Example:

```
MyManager manager = MyManager.getInstance(this);  
Toast.makeText(getApplicationContext(),"Model"+manager.getAndroidModle(),Toast.LENGTH_SHORT).show()  
;  
// Output Model= rk3288
```

2.3 Get the system version of the device

Function: public String getAndroidVersion()

Description: get the android system version of the current device

The API version of this interface: V1.0-20180602

```
/**  
 * @method getAndroidVersion()  
 * @description get the android system version of the current device, such as 7.1 returns 25  
 * @date 20180602  
 * @author sky  
 * @return android system version  
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Android version	19

Example:

```
MyManager manager = MyManager.getInstance(this);  
Toast.makeText(getApplicationContext(),"Version="+manager.getAndroidVersion(),Toast.LENGTH_SHORT).show();  
// output Version=19
```

2.4 Get the device memory capacity

Function: public String getRunningMemory()

Description: get the hardware memory capacity of the device.

The API version of this interface: V1.0-20180602

```
/**
 * @method getRunningMemory()
 * @description get the hardware memory capacity of the device
 * @date 20180602
 * @author sky
 * @return memory capacity
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Hardware memory capacity in GB	2GB

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Toast.makeText(getApplicationContext(),"RunningMemory"+manager.getRunningMemory(),Toast.LENGTH_SHORT).show();
```

```
// Output of RunningMemory2GB
```

2.5 Get the device storage capacity

Function: public String getInternalStorageMemory ()

Description: get the hardware internal storage capacity of the device

The API version of this interface: V1.0-20180602

```
/**
 * @method getInternalStorageMemory()
 * @description get the storage capacity of the device
 * @date 20180602
 * @author sky
 * @return internal storage capacity of the device
 */
```



```
public String getInternalStorageMemory();
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Hardware internal storage capacity in GB	16GB

Example:

```
MyManager manager = MyManager.getInstance(this);  
Toast.makeText(getApplicationContext(),"InternalStorageMemory:"+manager.getInternalStorageMemory()  
(),Toast.LENGTH_SHORT).show();  
// Output InternalStorageMemory: 16GB
```

2.6 Get the device firmware version

Function: public String getFirmwareVersion()

Description: get the firmware SDK version of the device.

The API version of this interface: V1.0-20180602

```
/**  
 * @method getFirmwareVersion()  
 * @description get the firmware SDK version of the device.  
 * @date 20180602  
 * @author sky  
 * @return device SDK version  
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Firmware version of the device	1.0

Example:

```
MyManager manager = MyManager.getInstance(this);  
Toast.makeText(getApplicationContext(),"FW:"+manager.getFirmwareVersion(),Toast.LENGTH_SHORT).show()  
;
```



// output FW:1.0

2.7 Get the device firmware kernel version

Function: public String getKernelVersion()

Description: get the firmware kernel version of the device

The API version of this interface: V1.0-20180802

```
/**
 * @method getKernelVersion()
 * @description get the firmware kernel version of the device
 * @date 20180802
 * @author sky
 * @return kernel version
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Firmware kernel version of the device	3.10.86

Example:

```
MyManager manager = MyManager.getInstance(this);
Log.e("SW kernel Version=" manager.getKernelVersion());
// Output SW kernel Version =3.10.86
```

2.8 Get the device firmware version and compilation date

Function: public String getAndroidDisplay()

Description: get the device firmware version and compilation date

The API version of this interface: V1.0-20180602

```
/**
 * @method getAndroidDisplay()
 * @description get the firmware version number
 * @date 20180602
```



* @author sky
 * @return firmware version number of the device
 */

Parameter name / Return value	Type	Description	Example
returned value	String	Device firmware version and compilation date	

Example:

```
MyManager manager = MyManager.getInstance(this);
Log.e("SWAndroidDisplay=" manager.getAndroidDisplay ());
// Output SW AndroidDisplay = aosp _ almond _ dtmb-userdebug 6.0 MRA58K eng.ace.20180523.103817
test-keys
```

2.9 Get the firmware compilation time

Function: public String getFirmwareDate()

Description: get the firmware compilation time

The API version of this interface: V1.0-20180602

```
/**
 * @method getFirmwareDate()
 * @description the firmware compilation time
 * @date 20180602
 * @author sky
 * @return firmware compilation time, such as 20180602
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Firmware compilation time of the device	20180602

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. And d ("API display", "getFirmwareDate():" + manager.getFirmwareDate());
// Output API display:: getFirmwareDate(): 20180602
```

2.10 Get the device CPU model

Function: public String getCPUType ()

Description: get the device CPU model

The API version of this interface: V 390118.0-201

```
/**
 * @method getCPUType()
 * @description get the device CPU model
 * @date 20190118
 * @author sky
 * @return device CPU model
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Device CPU model	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Log. D ("API display", "Device CPU Model:" + manager.getCPUType());
```

2.11 Get the vendor identification code

Function: public String getVendorID()

Description: get the vendor identification code

The API version of this interface: V 180602.0-201

```
/**
 * @method getVendorID()
 * @description get the vendor identification code
 * @date 20180602
 * @author sky
 * @return get the vendor identification code
 */
```



Parameter name / Return value	Type	Description	Example
Returned value	String	Returns the vendor ID	YSTA6212

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
ToastUtils.showToast (This, "Vendor identifier =" + manager.getVendorID());
```

2.12 Get the SN number

Function: public String getSn()

Description: get the SN number

The API version of this interface: V1.0-20180602

/**

* @method getSn()

* @description get the SN number

* @date 20180602

* @author sky

* @param

*/

Parameter name / Return value	Type	Description	Example
Returned value	String	SN number	2CE4WW1BKN

Note:

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
ToastUtils.showToast(this, "sn=" + manager.getSn());
```

Chapter 3 Shutdown and Reboot

3.1 Shutdown

Function: public void shutdown()

Description: Shutdown

The API version of this interface: V1.0-20180602

```
/**
 * @method shutdown()
 * @description execute the shutdown operation and follow the Android standard shutdown process
 * @date 20180602
 * @author sky
 */
```

Parameter name	Type	Description	Example
Returned value	void		

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.shutdown();
```

3.2 Restart

Function: public void reboot()

Description: restart

The API version of this interface: V1.0-20180602

```
/**
 * @method reboot()
 * @description execute the restart operation and follow the Android standard restart process
 * @date 20180602
 * @author sky
 */
```



Parameter name	Type	Description	Example
Returned value	void		

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.reboot();
```

Chapter 4 Display

4.1 Screenshot save

Function: public boolean takeScreenshot (String path)

Description: capture the current full screen as an image and rename it to the corresponding path

The API version of this interface: V1.0-20180602

/**

* @method takeScreenshot

* @description screenshot, execute this method to save the current screenshot of the system in the specified path

* @date 20180602

* @author sky

* @param path, the path to save the image. Such as, the /mnt/internal_sd/001.jpg

* @return whether the screenshot is successful, True is successful, False is failed

*

*/

Parameter name	Type	Description	Example
Parameter name	String	Save the absolute path	"/mnt/internal_sd/001.jpg"
Returned value	Boolean	Is the screenshot successful	True-successful saved screenshot False-failed

Note: whether the path is a read -write directory including filename.

Example:

// Screen capture and save to "/mnt/internal_sd/001.jpg"

MyManager manager = MyManager.getInstance(this);

manager.takeScreenshot(Environment.getExternalStorageDirectory().getPath() + "/001.jpg");

4.2 Set the screen rotation angle

Function: public boolean rotateScreen (Context context, String degree)

Description: set the screen to rotate clockwise N angle

The API version of this interface: V1.0-20180602

/**



* @method rotateScreen(Context context, String degree)
 * @description rotate screen orientation, 0, 90, 180, and 270 degrees
 * @date 20180602
 * @author sky
 * @param context context object. degree, angle of rotation (0 / 90 / 180 / 270)
 */

Parameter name / Return value	Type	Description	Example
Degree	String	Only support 0, 90, 180, 270 four angles	"0" "90" "180" "270"
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.rotateScreen(context, "90");
```

4.3 Get screen wide pixels (this interface has been removed after V5.2)

Function: public int getDisplayWidth (Context context)

Description: get the display resolution wide X pixels.

The API version of this interface: V1.0-20180602

```
/**
 * @method getDisplayWidth(Context context)
 * @description get the screen width
 * @date 20180602
 * @author sky
 * @param context, context object
 * @return screen width
 */
```

public int getDisplayWidth(Context context)

Parameter name / Return value	Type	Description	Example
Parameter name	Context	Context object	
Returned value	Int	Screen actual wide pixels	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getDisplayWidth(context);
```

4.4 Get screen high pixels (this interface has been removed after V5.2)

Function: public int getScreenHeight()

Description: get display resolution high Y pixels

The API version of this interface: V1.0-20180602

```
/**
 * @method getDisplayHeight(Context context)
 * @description get the screen height
 * @date 20180602
 * @author sky
 * @param context, context object
 * @return screen height
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Context	Context object	
Returned value	Int	Actual screen width pixels	

Example:

```
// Get the resolution at a 1080p screen
MyManager manager = MyManager.getInstance(this);
```

```
int x = manager.getDisplayWidth(context);
int y = manager.getDisplayHeight(context);
Log. And d ("API display:", "Width =" + x + "Height =" + y);
// Will output the Width: Height= 1920:1080
```

4.5 Navigation bar status setting

Function: public boolean hideNavBar (boolean hide)

Description: display or hide the navigation bar

The API version of this interface: V1.0-20180602

```
/**
 * @method hideNavBar(boolean hide)
 * @description set the display or hide the navigation
 * @date 20180602
 * @author sky
 * @param hide pass True to hide the navigation bar and False to display.
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	True-hide the navigation bar False-display the navigation bar	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.hideNavBar (true); // How to hide the navigation bar
```

4.6 Query the navigation bar status

Function: public boolean getNavBarHideState()

Description: whether the navigation bar is hidden

The API version of this interface: V1.0-20180602



```
/**
 * @method getNavBarHideState()
 * @description get the state of the navigation bar
 * @date 20180602
 * @author sky
 * @return navigation bar hide returns True, and display returns False
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	True-hidden False-display	

Example:

```
MyManager manager = MyManager.getInstance(this);
if(manager.getNavBarHideState()){
    Log.e("StatusBar hide." );
}else{
    Log.e("StatusBar show." );
}
```

4.7 Set slide-out navigation bar on or off

Function: public boolean setSlideShowNavBar (boolean flag)

Description: turn on or off slide-out navigation bar

The API version of this interface: V1.0-20180602

```
/**
 * @method setSlideShowNavBar(boolean flag)
 * @description turn the slide-out navigation bar on or off
 * @date 20180602
 * @author sky
 * @param flag turn on the slide-out navigation bar returns True, and turn off it returns False
 */
```

Parameter name /	Type	Description	Example
------------------	------	-------------	---------



Return value			
Parameter name	Boolean	True-turn on the slide-out status bar False-turn off the slide-out status bar	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setSlideShowNavBar (true); // Turn on the slide-out navigation bar
```

4.8 Query whether the slide-out navigation bar is turned on

Function: public boolean isSlideShowNavBarOpen

Description: whether the slide-out navigation bar is turned on

The API version of this interface: V1.0-20180602

```
/**
 * @method isSlideShowNavBarOpen()
 * @description query whether the slide-out navigation bar is turned on
 * @date 20180602
 * @author sky
 * @return turn on the slide-out navigation bar returns True, turn off it returns False
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	True-on False-off	

Example:

```
MyManager manager = MyManager.getInstance(this);
if(manager.isSlideShowNavBarOpen){
    Log.e("SlideShowNavBar open." );
}else{
    Log.e("SlideShowNavBar close" );
}
```



}

4.9 Set the slide-out notification bar on or off

Function: public boolean setSlideShowNotificationBar (boolean enable)

Description: turn on or off the slide-out notification bar

The API version of this interface: V1.0-20180602

/**

* @method setSlideShowNotificationBar(boolean flag)

* @description set the slide-out notification bar on or off

* @date 20180602

* @author sky

* @param flag turn on the drop-down notification bar, pass True, disable the drop-down notification bar, pass False

*/

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	True-turn on the slide out status bar False-turn off the slide out status bar	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

MyManager manager = MyManager.getInstance(this);

manager.setSlideShowNavBar (true); // Turn on the drop-down notification bar

4.10 Query slide-out notification bar status

Function: public boolean isSlideShowNotificationBarOpen ()

Description: whether the slide-out notification bar is turned on

The API version of this interface: V1.0-20180602

/**

* @method isSlideShowNotificationBarOpen()

* @description query whether the drop-down notification bar is turned on

* @date 20180602



* @author sky

* @return turn on the drop-down notification bar returns True, otherwise return False

*/

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	True-on False-off	

Example:

```
MyManager manager = MyManager.getInstance(this);
if(manager.isSlideShowNavBarOpen){
    Log.e("SlideShowNavBar open." );
}else{
    Log.e("SlideShowNavBar close" );
}
```

4.11 Status bar status setting

Function: public boolean hideStatusBar (boolean hide)

Description: display or hide the status bar

The API version of this interface: V1.0-20180602

/**

* @method hideStatusBar(boolean hide)

* @description set the display or hide the status bar

* @date 2021/1/12

* @author sky

* @param hide Hidden the status bar to pass False and display it to pass True

*/

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	True-hidden status bar False-display the status bar	



Returned value	Boolean	The return value of this interface has no reference value	
----------------	---------	---	--

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.hideStatusBar (false); // hidden status bar
```

4.12 Query the state of the status bar

Function: public boolean getStatusBar()

Description: whether the status bar is hidden

The API version to implement this interface: 2021 / 1 / 12

```
/**
 * @method getStatusBar()
 * @description get the state of the status bar
 * @date 20180602
 * @author sky
 * @return the status bar hide returns True, and the display returns False
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	True-hidden False-display	

Example:

```
MyManager manager = MyManager.getInstance(this);
if(manager.getStatusBar()){
    Log.e("StatusBar hide." );
}else{
    Log.e("StatusBar show." );
}
```

4.13 Turn off the backlight

Function: public boolean turnOffBacklight()

Description: turn off the screen, only turn off the backlight, but not into the dormancy, the software continues to run.

The API version of this interface: V1.0-20180602

```
/**
 * @method turnOffBackLight()
 * @description turn off the screen backlight, just turn off the backlight, and other system functions as usual
 * @date 20180602
 * @author sky
 */
```

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.turnOffBacklight();
```

4.14 Turn on the backlight

Function: public boolean turnOnBacklight()

Description: turn on the backlight.

The API version of this interface: V1.0-20180602

```
/**
 * @method turnOnBackLight()
 * @description turn on the screen backlight, corresponding to the turnOffBackLight() method
 * @date 20180602
 * @author sky
 */
```

Example:

```
manager.turnOnBacklight();
```

4.15 Get whether the backlight is turned on

Function: public boolean isBacklightOn()

Description: whether the backlight is turned on.



The API version of this interface: V2.1-20181122

```
/**
 * @method isBacklightOn()
 * @description whether the backlight is turned on
 * @date 20181122
 * @author sky
 * @return the current backlight is turned on returns True, otherwise return False
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	True-backlight on False-backlight off	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.isBacklightOn();
```

4.16 Set the screen brightness

Function: public boolean changeScreenLight (int value)

Description: adjust the screen brightness

The API version of this interface: V1.0-20180828

```
/**
 * @method changeScreenLight(int value)
 * @description set the screen brightness
 * @date 20180828
 * @author sky
 * @param value, it is set from 1 to 100, setting 100 represents the maximum brightness and 1 represents the
 minimum brightness
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Int	Specific value of brightness (1-100)	50



Returned value	Boolean	The return value of this interface has no reference value	
----------------	---------	---	--

Note: The parameter values are set from 1 to 100, setting 100 represents the maximum brightness and 1 represents the minimum brightness

Example: manager.changeScreenLight(50);

4.17 Get the backlight brightness value

Function: public int getSystemBrightness()

Description: get the backlight brightness value

The API version of this interface: V2.1-20181122

```
/**
 * @method getSystemBrightness()
 * @description get the current device backlight brightness
 * @date 20181122
 * @author sky
 * @return int, the returned brightness range is 0-100
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Int	The range of brightness is from 0 to 100	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getSystemBrightness();
```

4.18 Turn off the HDMI output

Function: public boolean turnOffHDMI()

Description: turn off the HDMI output

The API version of this interface: V1.0-20180602



/**

* @method turnOffHDMI()

* @description turn off the HDMI output, only turn off the signal output, and other system functions are not affected

* @date 20180602

* @author sky

*/

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.turnOffHDMI();
```

4.19 Turn on the HDMI output

Function: public boolean turnOnHDMI()

Description: turn on the HDMI output

The API version of this interface: V1.0-20180602

/**

* @method turnOnHDMI()

* @description turn on the HDMI output, corresponding to the turnOffHDMI()

* @date 20180602

* @author sky

*/

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.turnOnHDMI();
```

4.20 Secondary screen screenshot

Function: public boolean viceScreenshot (String path)

Description: capture the current full screen as an image and rename it to the corresponding path

The API version of this interface: V1.0-20180602

/**

* @method viceScreenshot



* @description screenshot, execute this method to save the current screenshot of the system in the specified path
 * @date 20180602
 * @author sky
 * @param path, the path to save the image. Such as, the /mnt/internal_sd/001.jpg
 * @return whether the screenshot is successful, True successful, False failed
 *
 */

Parameter name / Return value	Type	Description	Example
Parameter name	String	Save the absolute path	"/mnt/internal_sd/001.jpg"
Returned value	Boolean	Is the screenshot successful	True-successful, False-failed

Note: whether path is read-write directory including the filename.

Example:

// Screen capture and save to "/mnt/internal_sd/001.jpg"

MyManager manager = MyManager.getInstance(this);

manager.viceScreenshot(Environment.getExternalStorageDirectory().getPath() + "/001.jpg");

4.21 Main Screen type

Function: public String getHomeScreenType()

Description: main screen type

The API version of this interface: 2021 / 1 / 12

/**

* @method getHomeScreenType()

* @description main screen type

* @date 20180602

* @author sky

* @return main screen type

*/

Parameter name /	Type	Description	Example
------------------	------	-------------	---------



Return value			
Returned value	String	Home screen type	HDMI

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
ToastUtils.showToast (This, "Main screen type is:" + manager.getHomeScreenType());
```

4.22 Secondary screen type

Function: public String getSecondaryScreenType()

Description: secondary screen type

The API version of this interface: 2021 / 1 / 12

/**

* @method getSecondaryScreenType()

* @description secondary screen type

* @date 20180602

* @author sky

* @return secondary screen type

*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Secondary screen type	HDMI

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
ToastUtils.showToast (This, "secondary screen type is:" + manager.getSecondaryScreenType());
```

4.23 Get the DPI

Function: public String getDpi()

Description: get the DPI

The API version of this interface: V5.1-20210716



/**

* @param * @param

* @return return the dpi

* @method getDpi

* @description get the DPI

* @date: 2021/1/12

* @author: zouyuanhang

*/

Parameter name / Return value	Type	Description	Example
Parameter	String	Return the current DPI	160

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getDpi();
```

4.24 Set the Dpi

Function: public boolean setDpi (int value)

Description: set the Dpi

The API version of this interface: V5.1-20210716

/**

* @param * @param value 0=160 ,1=240,2=360,4=480

* @return

* @method setDpi

* @description set the Dpi

* @date: 2021/1/12

* @author: zouyuanhang

*/

Parameter name / Return value	Type	Description	Example
Parameter	Int	Input dpi values: 0=160,1=240,2=360, 3=480	0



Returned value	Boolean	The return value of this interface has no reference value	
----------------	---------	---	--

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.setDpi(0);
```

Chapter 5 Installation and upgrade

5.1 Firmware upgrade

Function: public boolean upgradeSystem (String absolutePath)

Description: upgrade the firmware

The API version of this interface: V1.0-20180602

```
/**
 * @method upgradeSystem(String absolutePath)
 * @description upgrade the firmware
 * @date 20180602
 * @author sky
 * @param absolutePath, the absolute path where the firmware to be upgraded is stored
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	String	Absolute path where firmware is stored	/mnt/internal_sd/update.zip
Returned value	Boolean	The return value of this interface has no reference value	

Note:

1. The function will automatically restart the system for the “update.zip” upgrade.
2. Ensure that the “zip” files exist and are fully available.
3. The filename must be a “update.img or “updat.zip”。

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.upgradeSystem( “/mnt/internal_sd/update.zip ” );
```

5.2 Recovery

Function: public boolean rebootRecovery()

Description: will restart into recovery mode



The API version of this interface: V1.0-20180602

```
/**
 * @method rebootRecovery()
 * @description    restore factory settings
 * @date 20180602
 * @author sky
 */
```

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.rebootRecovery();
```

5.3 Silent installation of APK

Function: public boolean silentInstallApk (String apkPath, boolean isStartApk)

Description: silent installation of APK.

The API version of this interface: V1.0-20180602

```
/**
 * @method silentInstallApk(String apkPath)
 * @description silent installation of APK, the method is pm install-r
 * @date 20180602
 * @author sky
 * @param apkPath, absolute path of the apk to be installed
 * @param isStartApk whether to turn on the app after successful installation
 * @return silent installation successfully returns True, otherwise return False
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	String	Absolute path of the APK to be installed	"/mnt/internal_sd/test.apk"



Parameter name	Boolean	Whether to turn on the app after the successful silent installation	True: start the app after successful installation, False: do not start
Returned value	Boolean	Whether the silent installation was successful or not Note: because the installation is executed asynchronously, the return value of this interface has no reference value	

Note:

The APK files exist and are fully available.

Example:

```
// Install the test.apk
```

```
MyManager manager = MyManager.getInstance(this);
```

```
boolean success = manager.silentInstallApk("/mnt/usb/0000-0000/YiShengTest.apk",false);
```

```
// Silent installation YiShengTest. Apk, do not turn on the apk after the successful installation
```

5.4 Set whether the upgrade firmware pops up

Function: public boolean setUpdateSystemWithDialog (boolean flag)

Description: set whether the upgrade firmware pops up

The API version of this interface: V4.2-20200330

```
/**
```

```
* @method setUpdateSystemWithDialog(boolean flag)
```

```
* @description set whether the upgrade firmware pops up, the default is no pop up
```

```
* @date 20200330
```

```
* @author sky
```

```
* @param flag, True upgrade with popup, False upgrade without pop up
```

```
*/
```

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	Controls whether the upgrade firmware pops up	True-pop up False-not pop up



Returned value	Boolean	The return value of this interface has no reference value	
----------------	---------	---	--

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setUpdateSystemWithDialog (true); // Set upgrade firmware pop up confirmation
```

5.5 Whether to delete the firmware package from the file after setting the firmware upgrade

Function: public boolean setUpdateSystemDelete (boolean flag)

Description: whether to delete the firmware package from the file after setting the firmware upgrade

The API version of this interface: V4.2-20200330

```
/**
 * @method setUpdateSystemDelete(boolean flag)
 * @description whether to delete the firmware package from the file after setting the firmware upgrade, the
 * default is not deleted
 * @date 20200330
 * @author sky
 * @param flag to delete after successful upgrade returns True, and not to delete after successful upgrade
 * returns False
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	Controls whether the upgrade firmware is deleted	True-delete False-not delete
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setUpdateSystemDelete (true); // Set upgrade successfully delete firmware
```



5.6 Silent uninstall Apk

Function: public boolean unInstallApk (String packagename)

Description: silent uninstall the Apk

The API version of this interface: V5.1-20210419

/**

* @methodunInstallApk(String packagename)

* @description silent uninstall the Apk

* @date 20210419

* @author sky

* @param packagename the package name that needs to be uninstalled

*/

Parameter name / Return value	Type	Description	Example
Parameter name	String	Package name to be uninstalled	com.bjw.ComAssistant
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.unInstallApk("com.bjw.ComAssistant");
```

Chapter 6 Network

6.1 Get the device network mode

Function: public int getCurrentNetType()

Description: get the current Internet type

The API version of this interface: V1.0-20180602

```
/**
 * @method getCurrentNetType()
 * @description get the current network type
 * @date 20180602
 * @author sky
 * @return returns "int" value, 0 Ethernet, 1 WIFI, 2 mobile network, -100 unknown network
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Int	0 Ethernet, 1 WIFI, 2 mobile network -100 the unknown network	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Int type = manager.getCurrentNetType();
```

6.2 Query the Ethernet MAC address

Function: public String getEthMacAddress()

Description: get the Ethernet MAC address

The API version of this interface: V2.0-20180806

```
/**
 * @method getEthMacAddress()
 * @description get the Ethernet Mac address
 * @date 20180806
 * @author sky
 * @return returns the Ethernet Mac address, such as 30:1F: 9A: 61: BA: 8F
```



*/

Parameter name / Return value	Type	Description	Example
Returned value	String	The Ethernet MAC address	30:1F:9A:61:BA:8F

Example:

```
MyManager manager = MyManager.getInstance(this);
Log.e("ETH MAC=" + manager.getEthMacAddress ());
// Output ETH MAC =30:1F: 9A: 61: BA: 8F
```

6.3 Query the Ethernet connection mode

Function: public String getEthMode()

Description: get the current Ethernet mode

The API version of this interface: V1.0-20180602

/**

* @method getEthMode()

* @description get the Ethernet mode, static or dynamic

* @date 20180602

* @author sky

* @return static mode returns StaticIp and dynamic mode returns DHCP

*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Ethernet mode	StaticIp (Static), DHCP (dynamic)

Example:

```
MyManager manager = MyManager.getInstance(this);
Log.D ("API display", "Current mode =" + manager.getEthMode());
// Output, current mode = DHCP
```

6.4 Query the Ethernet switch status

Function: public boolean getEthStatus()

Description: get whether the current Ethernet switch is on

The API version of this interface: V2.0-20180806

```
/**
 * @method getEthStatus()
 * @description get the switch state of the Ethernet network
 * @date 20180806
 * @author sky
 * @return Ethernet switch on to returns True, switch off returns False
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	Ethernet switch status	True (on) False (off)

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Log. D ("API display", "whether Ethernet is turned on =" + manager.getEthStatus());
```

```
// Output whether Ethernet is turned on = false
```

6.5 Query the subnet mask of the Ethernet

Function: public String getNetMask ()

Description: get the subnet mask of the current Ethernet

The API version of this interface: V2.0-20180806

```
/**
 * @method getNetMask()
 * @description get the subnet mask of the Ethernet
 * @date 20180806
 * @author sky
 * @return returns the subnet mask of the current device Ethernet, such as 255.255.255.0
 */
```



Parameter name /Return value	Type	Description	Example
Returned value	String	Subnet mask	255.255.255.0

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. D ("API display", "Subnet mask for Ethernet =" + manager.getNetMask());
// Output Subnet mask for the Ethernet = 255.255.255.0
```

6.6 Query the gateway of Ethernet

Function: public String getGateway ()

Description: get the gateway of the current Ethernet

The API version of this interface: V2.0-20180806

```
/**
 * @method getGateway()
 * @description Get the gateway of the Ethernet
 * @date 20180806
 * @author sky
 * @return returns to the gateway of the current device Ethernet, such as 192.168.1.1
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Gateway	192.168.1.1

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. D ("API display", "Ethernet gateway =" + manager.getGateway());
//Output Ethernet gateway = 192.168.1.1
```

6.7 Query Dns 1 of the Ethernet

Function: public String getEthDns1 ()

Description: get Dns 1 of the current Ethernet



The API version of this interface: V2.0-20180806

/**

* @method getEthDns1()

* @description get the DNS 1 of the Ethernet

* @date 20180806

* @author sky

* @return returns the DNS 1 of the current device Ethernet, such as 192.168.1.1

*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Dns1	192.168.1.1

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Log. And d ("API display", "dns 1 of Ethernet =" + manager.getEthDns1 ());
```

```
// Output the dns of Ethernet with 1 = 192.168.1.1
```

6.8 Query Dns 2 of the Ethernet

Function: public String getEthDns2()

Description: get the Dns 2 of the current Ethernet

The API version of this interface: V2.0-20180806

/**

* @method getEthDns2()

* @description get the DNS 2 of the Ethernet

* @date 20180806

* @author sky

* @return returns the DNS 2 of the current device Ethernet, such as 192.168.1.1

*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Dns2	192.168.1.1

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. And d ("API display", "dns of Ethernet 2 =" + manager.getEthDns2());
// Output dns 2 = 192.168.1.1
```

6.9 Set Ethernet to dynamic acquisition mode

Function: public boolean setDhcpIpAddress (Context context)

Description: set Ethernet mode to dynamic acquisition

The API version of this interface: V1.0-20180602

```
/**
 * @method setDhcpIpAddress(Context context)
 * @description set the Ethernet mode to dynamic
 * @date 20180602
 * @author sky
 * @param context, context object
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Context	Context object	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setDhcpIpAddress(this);
```

6.10 Set Ethernet to static acquisition mode

Function: public boolean setStaticEthIPAddress (String IPAddr, String gateWay, String mask, String dns1, String dns2)

Description: set Ethernet to static acquisition mode

The API version of this interface: V1.0-20180602

/**

* @method setStaticEthIPAddress(String IPAddr, String gateWay, String mask, String dns1, String dns2)
 * @description set the Ethernet mode to static, and specify the relevant parameters
 * @date 20180602
 * @author sky
 * @param IPAddr, set IP address.gateWay, Set the gateway. Mask, set the subnet mask. The dns 1 and dns 2 are the set dns values
 */

Parameter name / Return value	Type	Description	Example
IPAddr	String	IP address	"192.168.1.125"
gateWay	String	Gateway	"192.168.1.1"
mask	String	subnet mask	"255.255.255.0"
dns1	String	DNS	"192.168.1.1"
ipLength	String	DNS	"0.0.0.0"
Returned value	Boolean	The return value of this interface has no reference value	

Note: Gateway, subnet mask, and DNS should be set to legal data

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setStaticEthIPAddress("192.168.1.125", "192.168.1.1", "255.255.255.0", "192.168.1.1", "0.0.0.0");
```

6.11 Get the Ethernet dynamic IP address

Function: public String getDhcpIpAddress()

Description: get the dynamic IP address of the Ethernet

The API version of this interface: V1.0-20180602

/**

* @method getDhcpIpAddress()
 * @description get the dynamic IP address of the Ethernet



```
* @date 20180602
* @author sky
* @return returns the Ethernet dynamic IP address
*/
```

Parameter name / Return value	Type	Description	Example
Returned value	String	The Dynamic IP address of the Ethernet	192.168.1.100

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. And d ("API Display", "ETH IP =" + myManager.getDhcpIpAddress());
// Output: ETH IP =192.168.1.103
```

6.12 Get the static IP address of the Ethernet

Function: public String getStaticEthIpAddress()

Description: get the static IP address of the Ethernet

The API version of this interface: V1.0-20180602

```
/**
* @method getStaticEthIpAddress()
* @description get the static IP of the Ethernet
* @date 20180602
* @author sky
* @return returns the static IP address of the Ethernet
*/
```

Parameter name / Return value	Type	Description	Example
Returned value	String	The static IP address of the Ethernet	192.168.1.100

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. And d ("API Display", "ETH IP =" + manager.getStaticEthIpAddress());
// Output: ETH IP =192.168.1.103
```

6.13 Control the Ethernet switch

Function: public boolean ethEnabled (boolean enable)

Description: control the Ethernet switch

The API version of this interface: V1.0-20180602

```
/**
 * @method ethEnabled(boolean enable)
 * @description control the Ethernet switch
 * @date 20180602
 * @author sky
 * @param enable, turn on the Ethernet switch incoming true, close the Ethernet switch incoming false
 */
```

Parameter name / Return value	Type	Description	Example
Parameter	Boolean	True-turn on Ethernet False-turn off Ethernet	True-on; false-off
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.ethEnabled (false); // close Ethernet
```

6.14 ppoe dial-up (this interface has been removed after V5.2)

Function: public void setPppoeDial (Context context, String userName, String password)

Description: set pppoe dial-up

The API version of this interface: V4.2-20200330

Parameter name / Return value	Type	Description	Example
Parameter name	Context	Context object	
Parameter name	String	Dial-up username	



Parameter name	String	Password for the dial-up	
----------------	--------	--------------------------	--

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.setPppoeDial(this," username " ," password " );
```

Chapter 7 Storage

7.1 Query the external storage SD card path

Function: public String getSDcardPath()

Description: get the external storage SD card path

The API version of this interface: V1.0-20180602

```
/**
 * @method getSDcardPath()
 * @description get the external SD card path
 * @date 20180602
 * @author sky
 * @return returns to the external SD card path
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	External storage SD card absolute path	

Example:

```
MyManager manager = MyManager.getInstance(this);
Log. And d (API Test, SD=, + manager.getSDcardPath());
// Output API: external SD card path = / mnt / external _ sd
```

7.2 Query the external storage U disk path

Function: public String getUSBStoragePath (int num)

Description: get the external storage U disk path

The API version of this interface: V1.0-20180602

```
/**
 * @method getUSBStoragePath(int num)
 * @description get the external U disk path
 * @date 20180602
 * @author sky
 * @param num, starting from 0, it indicates the first U disk
 * @return the path of the U disk
```



*/

Parameter name / Return value	Type	Description	Example
num	Int	U disk	0,1,2,3
Returned value	String	External storage U disk absolute path	

Note:

Need to set the path in the source code to run the Demo normally

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Log. And d (API Test, USB Path =, + manager.getUSBStoragePath(0));
```

```
// Output / mnt / usb _ storage / USB _ DISK 2 / udisk0;
```

7.3 Query the port absolute path

Function: public String getUartPath (String uart)

Description: get the serial port absolute path.

The API version of this interface: V1.0-20180602

/**

* @method getUartPath(String uart)

* @description get the absolute path of the serial port

* @date 20180602

* @author sky

* @param uart, the serial port is the incoming serial number, like the serial port 0 into TTYS0

* @return returns the absolute path of the specified serial port

*/

Parameter name / Return value	Type	Description	Example
Uart	String	Serial port corresponding to the port number uart 0, uart 1, uart 2, uart 3	“TTYS0
Returned value	String	UART absolute path	/dev/ttyS0



Example:

```
MyManager manager = MyManager.getInstance(this);  
Log. And d ("API test", "UART-1=" + manager.getUartPath ( “TTYS1” ));  
// Output UART-1= / dev / ttyS 1
```

Chapter 8 Timer switch

8.1 Set the timer switch of weekly mode

Function: public boolean setPowerOnOffWithWeekly (int [] powerOnTime, int [] powerOffTime, int [] weekdays)

Description: set the timer switch, weekly mode, only one set of switch times a day

The API version of this interface: V4.0-20200115

```
/**
 * @method setPowerOnOffWithWeekly(int[] powerOnTime,int[] powerOffTime,int[] weekdays)
 * @description weekly mode set timer switch, only one set of switch time a day
 * @date 20200113
 * @author sky
 * @param powerOnTime, start-up time, such as, {8,30}.powerOffTime, Shutdown time, such as, {18,30}.
 * weekdays, Monday to Sunday working status, 1 means power on, 0 means power off. Such as,
 * {1,1,1,1,1,0,0}, is the switch being executed from Monday to Friday
 */
```

Parameter name / Return value	Type	Description	Example
PowerOnTime	Int[]	Boom time, hour and minute	{8,30}
PowerOffTime	Int[]	Shutdown time, hour and minute	{18,30}
Weekdays	Int[]	Working status from Monday to Sunday	{1,1,1,1,0,0,1}
Returned value	Boolean	The return value of this interface has no reference value	

Note:

This method can only have one set of time in a day, and the startup time is before, and the shutdown time is after

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
int [] timeonArray = new int{8,30};
```



```
int [] timeoffArray = new int{18,30};
Int [] weekdays = new int {1,1,1,1,1,0,0}; // Monday to Sunday, 1 is on and 0 is not on
manager.setPowerOnOffWithWeekly(timeonArray,timeoffArray,weekdays);
```

Set the above time will be turned on at 8:30 from Monday to Friday and turned off at 18:30.

8.2 Set a set of timer switches

Function: public boolean setPowerOnOff (int [] powerOnTime, int [] powerOffTime)

Description: set a set of timer switches, can be set multiple times a day, need to pass in the year, month, day, hour and minute

The API version of this interface: V4.0-20200115

```
/**
 * @method setPowerOnOff(int[] powerOnTime,int[] powerOffTime)
 * @description set a set of timing switch time data, need to enter the time points
 * @date 20200113
 * @author sky
 * @param powerOnTime, Boot-up time, e. g. {2020,1,10,20,48}, powerOffTime, shutdown time, e. g.
 {2020,1,10,20,38}.
 */
```

Parameter name / Return value	Type	Description	Example
PowerOnTime	Int[]	Boot time, year, month, day, hour and minute	{2020,01,13,18,40}
PowerOffTime	Int[]	Shutdown time, year, month, day, hour and minute	{2020,01,13,18,30}
Returned value	boolean	The return value of this interface has no reference value	

Note:

When this method is set, the shutdown time is before, and the startup time is after

Example:

Web : www.yishengtec.cn



```
MyManager manager = MyManager.getInstance(this);
```

```
int [] timeoffArray = new int{2018,1,10,20,38};
```

```
int [] timeonArray = new int{2018,1,10,20,48};
```

```
m anager.setPowerOnOff(timeonArray,timeoffArray);
```

The above time will be set on January 10,2018, close at 20:38 and turn on at 20:48

Note: This method is also applicable to only set the startup time, just pass the shutdown time to 0, i. e

```
int [] timeoffArray = new int{0,0,0,0,0};
```

8.3 Get the current timer switch mode of the device

Function: public String getPowerOnMode()

Description: get the timer switch mode

The API version of this interface: V4.0-20200115

```
/**
```

```
* @method getPowerOnMode()
```

```
* @description get the mode of the timing switch machine
```

```
* @date 20200113
```

```
* @author sky
```

```
* @return "0" means the switch time set locally in the timer switch."2" means calling the  
setPowerOnOffWithWeekly method by broadcast."1" means calling the setPowerOnOff method by broadcast.
```

```
*/
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Switch mode	"0"

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
m anager.getPowerOnMode();
```

8.4 Get the startup time of the device's current timer switch

Function: public String getPowerOnTime()

Description: get the startup time

The API version of this interface: V4.0-20200115

```
/**
```



* @method getPowerOnTime()
* @description get the startup time of the current device
* @date 20200113
* @author sky
* @return returns to the current set boot time, such as 202001132025, refers to the 20:25 boot on January 13,2020
*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Timer switch-on time	202001132025

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.getPowerOnTime();
```

8.5 Get the shutdown time of the current timing switch machine

Function: public String getPowerOffTime()

Description: get the shutdown time of the timer switch

The API version of this interface: V4.0-20200115

/**
* @method getPowerOffTime()
* @description get the shutdown time of the current device
* @date 20200113
* @author sky
* @return returns to the current boot time set, such as 202001132020, refers to the 20:20 shutdown on January 13,2020
*/

Parameter name / Return value	Type	Description	Example
Returned value	String	Timer switch- off time	202001132020

Example:

```
MyManager manager = MyManager.getInstance(this);
```

manager.getPowerOffTime();

8.6 Get the last power on time of the device's timer switch

Function: public String getLastestPowerOnTime()

Description: get the last executed boot time of the device

The API version of this interface: V4.0-20200115

```
/**
 * @method getLastestPowerOnTime()
 * @description get last boot time of the device
 * @date 20200113
 * @author sky
 * @return the last startup time of the return device, such as 202001132025, means that the startup operation
 was performed at 20:25 on January 13,2020
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	The last timer switch on time	202001132025

Example:

MyManager manager = MyManager.getInstance(this);

manager.getLastestPowerOnTime();

8.7 Get the last shutdown time of the device's timer switch

Function: public String getLastestPowerOffTime()

Description: get the startup time last performed

The API version of this interface: V4.0-20200115

```
/**
```



* @method getLastestPowerOffTime()
 * @description get the startup time of the device last performed
 * @date 20200113
 * @author sky
 * @return the last startup time of the return device, such as 202001132020, means that the startup operation was performed at 20:20 on January 13,2020
 */

Parameter name / Return value	Type	Description	Example
Returned value	String	Last time switch machine time	202001132020

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getLastestPowerOffTime();
```

8.8 Clear the timer switch data

Function: public boolean clearPowerOnOffTime()

Description:clear the timer switch time

The API version of this interface: V4.0-20200115

```
/**
 * @method clearPowerOnOffTime()
 * @description clear the timer switch time
 * @date 20200113
 * @author sky
 */
```

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.clearPowerOnOffTime();
```

8.9 Get the timer switch version

Function: public String getVersion()



Description: get the timer switch version number

The API version of this interface: V4.0-20200115

Parameter name / Return value	Type	Description	Example
Returned value	String	Timer switch machine version	YS_1.0_20180312

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.getVersion();
```

8.10 Get whether the equipment has set the timer switch

Function: public boolean isSetPowerOnTime()

Description: get whether the device is equipped with a timer switch

The API version of this interface: V4.0-20200115

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	Whether the timer switch is set	True

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.isSetPowerOnTime();
```

Chapter 9 GPIO index value control

Note:

After version V5.2-20210831, for all GPIO interfaces, the parameter gpio passes by value 1.... .N, means to get the reserved IO ports of the device.

Example

Rk3288-M8 motherboard reserved four IO ports, respectively 139,138,68,69, then the corresponding pass by value 1,2,3,4; some motherboard reserved IO ports more or less, and so on, V5.2-20210831 the following version please ignore (need to pass the actual index value, such as 139);

9.1 Set the state of the io port to input or output

Function: public boolean setGpioDirection (int gpio, int arg)

Description: set whether the gpio is input or output according to the io port value

The API version of this interface: V4.1-20200213

/**

* @method setGpioDirection(int gpio, int arg)

* @description set the state of the io port to input or output

* @date 20200213

* @author sky

* @param gpio, the gpio value 1 for gpio 1. arg, 1 means set to input port, 0 means set to output port.

* @return set successfully return True and failed return False

*/

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	Whether the setting is successful	Successful-True, failed-False
Parameter values	Gpio	The gpio value	1
Parameter values	Arg	Input or output	Input port-1 output port-0

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.setGpioDirection(1, 0);
```

9.2 Get whether the current gpio is an input port or an output port

Function: public String getGpioDirection (int gpio)

Description: Get whether the current state of the gpio is input or output based on the specific gpio value. This method also determines if the gpio is valid, if no value is returned, it means that the gpio is not available

The API version of this interface: V4.1-20200213

```
/**
 * @method getGpioDirection(int gpio)
 * @description get whether the current state of the gpio is input or output based on the specific gpio value
 * @date 20200213
 * @author sky
 * @param gpio, gpio value
 * @return the input port returns In, and the output port returns Out
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	Input or output	Input-In output-Out
Parameter values	Int	Gpio price	1

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getGpioDirection(1);
```

9.3 Set the level of the gpio

Function: public boolean writeGpioValue (int gpio, String arg)

Description: Control the level of the gpio according to the specific gpio value

The API version of this interface: V4.1-20200213

```
/**
 * @method writeGpioValue(int gpio, String arg)
 * @description control the gpio level, only for the output port
 * @date 20200213
 * @author sky
 * @param gpio, gpio value. Arg, high level- -1, and low level- -0
 * @return set successfully return "true" and failed return "false"
 */
```



Parameter name / Return value	Type	Description	Example
Returned value	Boolean	Whether the setting is successful	Successful-True, failed-False
Parameter name	Int	Gpio value	1
Parameter name	String	High and low level	High-1, low-0

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.writeGpioValue(1, 1);
```

9.4 Get the level of the current gpio

Function: public String getGpioValue (int gpio)

Description: get the level of the current gpio

The API version of this interface: V4.1-20200213

```
/**
 * @method getGpioValue(int gpio)
 * @description get the level of the current gpio
 * @date 20200213
 * @author sky
 * @param gpio, gpio value
 * @return High level returns 1 and low level returns 0
 */
```

Parameter name / Return value	Type	Description	Example
Returned value	String	High level or low level	High level- -1 and low level- -0
Parameter name	Int	Gpio value	1

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.getGpioValue(1);
```

Chapter 10 Other

10.1 Set and save the system time

Function: public boolean setTime (int year, int month, int day, int hour, int minute, int sec)

Description: set and save the system time

The API version of this interface: V1.0-20180602

```
/**
 * @method setTime(int year, int month, int day, int hour, int minute, int sec)
 * @description set the system time
 * @date 20180602
 * @author sky
 * @param enter the year, month, day, hour, minute and second to be set, where the month is from 1-12, and
the time is in 24-hour system.
 */
```

Parameter name / Return value	Type	Description	Example
Year	Int	Year	
Month	Int	Month (1 to 12)	
Day	Int	Day	
Hour	Int	(24-hour system) hours	
Minute	Int	(24-hour system) minutes	
Sec	Int	Second	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
// Settings 2016-03-16,13:44:20
```

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.setTime (2016, 3, 16, 13, 44,20);
```

10.2 Turn automatic time determination on or off

Function: public boolean switchAutoTime (boolean open)

Description: set the automatic time determination on or off

The API version of this interface: V1.0-20180602

```
/**
 * @method switchAutoTime(boolean open)
 * @description controls the switch to automatically determine the date and time
 * @date 20180602
 * @author sky
 * @param open, enter True is turn on the switch, False is turn off the switch
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	True-turn on automatically determines time False-turn off automatically determines time	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.switchAutoTime (false); // Close the automatic date and time
```

10.3 Control whether the soft keyboard can pop up

Function: public boolean setSoftKeyboardHidden (boolean hidden)

Description: control whether the soft keyboard can pop up

The API version of this interface: V1.0-20181126

```
/**
 * @method setSoftKeyboardHidden(boolean hidden)
 * @description control whether the soft keyboard pops up (mainly EditText controls)
 * @date 20181126
 * @author sky
```



* @param hidden, enter True is to hide the soft keyboard,enter False is to display the soft keyboard

*/

Parameter name / Return value	Type	Description	Example
Parameter name	Boolean	True-soft keyboard can pop up False-soft keyboard can't pop up	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setSoftKeyboardHidden(false);
```

10.4 Control of dormancy time

Function: public boolean setDormantInterval (Context context, long time)

Description: control of dormancy time

The API version of this interface: V2.2-20181129

/**

* @method setDormantInterval(Context context, long time)

* @description control of dormancy time

* @date 20181129

* @author sky

* @param context, context object. time, time interval (no operating system enters hibernation during the interval)

*/

Parameter name / Return value	Type	Description	Example
Parameter	Long	Time interval (2147483647)	If the interval is 15s hibernation, the passed parameter is 15,000
Returned value	Boolean	The return value of this interface has no reference value	



Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.setDormantInterval(context,15000);
```

10.5 Query automatically determine network time status

Function: public boolean isAutoSyncTime()

Description: get whether the switch to automatically determine the network time is turned on

The API version of this interface: V2.0-20180806

```
/**  
 * @method isAutoSyncTime()  
 * @description get the state of the switch that automatically determines the network time  
 * @date 20180806  
 * @author sky  
 * @return returns to True description turns on automatic determine network time, return to False description  
 turns this switch off  
 */
```

Parameter name / return value	Type	Description	Example
Returned value	Boolean	True-turn on automatically determines time False-turn off automatically determines time	

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.isAutoSyncTime();
```

10.6 Execute shell commands with ROOT authority

Function: public boolean execSuCmd (String command)

Description: execute shell commands with ROOT authority

The API version of this interface: V5.2-20210831

```
/**  
 * @method execSuCmd(String command)  
 * @description execute shell commands with the root authority  
 * @date 20180602  
 * @author sky
```



* @param command, pass in shell commands that required to be executed, such as reboot

*/

Parameter name / Return value	Type	Description	Example
Parameter	String	Shell command to be executed	“reboot ”
Returned value	Boolean	Return True to execute successfully, False to execute failed	

Example:

// Execution restart

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.execSuCmd ( “reboot ” );
```

10.7 Get the HDMI output status

Function: public boolean getHdmiinStatus()

Description: HDMI input status

The API version of this interface: V1.0-20180602

/**

* @method getHdmiinStatus()

* @description get the HDMI connection status

* @date 20180602

* @author sky

* @return HDMI output returns True, otherwise returns False

*/

Parameter name / Return value	Type	Description	Example
Returned value	Boolean	False-no HDMI output, True- has HDMI output	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Toast.makeText(getApplicationContext(),” HDMI” +
```

```
manager.getHdmiinStatus(),Toast.LENGTH_SHORT).show();
```

10.8 Set default input method

Function: public boolean isSetDefaultInputMethodSuccess (String defaultInputMethod)

Description: set default input method

The API version of this interface: V3.1-20190228

```
/**
 * @method isSetDefaultInputMethodSuccess(String defaultInputMethod)
 * @description set default input method, and judge whether the setting is successful
 * @date 20190228
 * @author sky
 * @param defaultInputMethod, set the package name of the input method, such as Google Pinyin input
method " com.google.android.inputmethod.pinyin/.PinyinIME"
 * @return set successfully return "true", failed return "false"
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	String	The package name of the default input method apk	Google Pinyin com.google.android.inputmethod.pinyin/. PinyinIME
Returned value	Boolean	Whether the setting is successful	Successful return True , failed returns False

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.isSetDefaultInputMethodSuccess( "com.google.android.inputmethod.pinyin/.PinyinIME " );
```

10.9 Get default input method

Function: public String getDefaultInputMethod()

Description: get default input method

The API version of this interface: V3.1-20190228

```
/**
 * @method getDefaultInputMethod()
 * @description get the current system input method
 * @date 20190228
 * @author sky
```



* @return returns the package name of the current input method, such as

com.google.android.inputmethod.pinyin/.PinyinIME

*/

Parameter name / Return value	Type	Description	Example
Parameter name	String	Package name of the current input method apk	Google Pinyin com.google.android.inputmethod.p inyin

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.getDefaultInputMethod();
```

10.10 Set system language

Function: public boolean setLanguage (String language, String country)

Description: set system language

The API version of this interface: V3.2-20190513

/**

* @method setLanguage(String language, String country)

* @description set the current system default language

* @date 20190513

* @author sky

* @param language, Language, such as in zh.country, Country, such as CN

*/

Parameter name / Return value	Type	Description	Example
Parameter name	String	Set language (lowercase) and country (caps)	Simplified Chinese, chCN Chinese Taiwan, zhTW Canada English, enCA
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
manager.setLanguage( "zh ", " CN " );
```

10.11 Get device CPU temperature

Function: public String getCPUTemperature()

Description: get device CPU temperature.

The API version of this interface: V3.3-20190619

```
/**
 * @method getCPUTemperature()
 * @description get the current system CPU temperature
 * @date 20190619
 * @author sky
 * @return return "int" value in degrees Celsius
 */
```

Parameter name / Return value	Type	Description	Example
Parameter name	String	The device CPU temperature	

Example:

```
MyManager manager = MyManager.getInstance(this);
```

```
Log. D ("API display", "Device CPU temperature:" + manager.getCPUTemperature());
```

10.12 Turn the adb connection on or off

Function: public boolean setADBOpen (boolean open)

Description: turn the adb on or off

The API version of this interface: V3.4-20190628

```
/**
 * @method setADBOpen(boolean open)
 * @description turn the adb on or off
 * @date 20190628
 * @author sky
 * @param open, true, open the adb connection switch. false, close the adb connection
 */
```



Parameter name / Return value	Type	Description	Example
Parameter	Boolean	Whether to open adb, True: open False: close	
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setADBOpen(true);
```

10.13 Replace boot animation

Function: public boolean replaceBootanimation (String path)

Description: replace the boot animation

The API version of this interface: V3.4-20190628

/**

* @method replaceBootanimation(String path)

* @description replace the boot animation

* @date 20190628

* @author sky

* @param path, boot animation bootanimation. the absolute path where the zip is located

*/

Parameter name / Return value	Type	Description	Example
Parameter	String	The path of the boot animation	/storage/emulated/0/bootanimation.zip
Returned value	Boolean	The return value of this interface has no reference value	

Example:

Web : www.yishengtec.cn

```
MyManager manager = MyManager.getInstance(this);
manager.replaceBootanimation( “/storage/emulated/0/bootanimation.zip ” );
```

10.14 Set default Launcher

Function: public boolean setDefaultLauncher (String packageAndClassName)

Description: system has more than one Launcher, and the default Launcher can be set

The API version of this interface: V3.5-20190719

```
/**
 * @method setDefaultLauncher(String packageAndClassName)
 * @description set the system default Launcher
 * @date 20190719
 * @author sky
 * @param packageAndClassName, set the package name and startup class name of the Launcher, such as "
com.android.launcher3/com.android.launcher3.Launcher"
 */
```

Parameter name / Return value	Type	Description	Example
Parameter	String	Default Launcher package name and startup class name	The package name and startup class name of the Launcher3 "com.android.launcher3/com.android.launcher3 .Launcher"
Returned value	boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setDefaultLauncher("com.android.launcher3/com.android.launcher3.Launcher");
```

10.15 Execute shutdown operation (repeat, remove)

Function: public void shutdown()

Description: the method to wake up the system after dormancy

The API version of this interface: V4.3-20200521

```
/**
 * @method shutdown()
```



```
* @description execute the shutdown operation, following the standard Android shutdown process
* @date 20180602
* @author sky
*/
```

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.shutdown();
```

10.16 Set start-up

Function: public boolean selfStart (String packagename)

Description: set the app to start-up

The API version of this interface: V5.1-20210716

```
/**
 * @method selfStart(String packagename)
 * @description set the start-up
 * @date 2021-07-16
 * @author zyh
 * @param packagename, Package name
 */
```

Parameter name / Return value	Type	Description	Example
Parameter	String	Application package name	rkandroidapi.ys.com.rkandroidapi
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.selfStart("rkandroidapi.ys.com.rkandroidapi");
```

10.17 Set daemon application

Function: public boolean daemon (String packageName, int value)

Description: set the daemon application



The API version of this interface: V5.1-20210716

/**

* @param packageName The package name of the daemon application, none means none

* @param value, Daemon time 0 = 30s, 1 = 60s 2=180 s, default is 30s

* @return

* @method daemon

* @description Set the daemon

* @date: 2021/7/16

* @author: zouyuanhang

*/

Parameter name / Return value	Type	Description	Example
Parameter	String	The package name of the daemon app	rkandroidapi.js.com.rkandroidapi
Parameter	Int	Daemon time	0
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.daemon("rkandroidapi.js.com.rkandroidapi",1);
```

10.18 Set whether to enable the application installation whitelist and add the app to the list

Function: public boolean setAppInstallWhitelist (String isopen, String packageName)

Description: application installation whitelist

The API version of this interface: V5.1-20210716

/**

* @param isopen true “Enable whitelist” false “disable”

* @param packageName add the whitelist application package name, if need to delete the application package name, can use the Utils.removeFileData(packageName,false)

* @return



* @method setAppInstallWhitelist
 * @description Add a whitelist of app installations
 * @date: 2021/1/12
 * @author: zouyuanhang
 */

Parameter name /Return value	Type	Description	Example
Parameter	String	True-enabled whitelist False-disable whitelist	True Note: If you close the whitelist, need to input the value false to attribute persist.neo. WhiteList
Parameter	String	add the whitelist application package name	rkandroidapi.js.com.rkandroidapi
Returned value	Boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setAppInstallWhitelist("true","rkandroidapi.js.com.rkandroidapi");
```

10.19 Set whether to enable the application installation blacklist and add the app to the list

Function: public void setAppInstallBlacklist (String isopen, String packageName)

Description: delete the app installation whitelist

The API version of this interface: V5.1-20210716

```
/**
 * @param isopen true "Enable the blacklist" false "disable"
 * @param packageName add the blacklist application package name, if need to delete the application package
 * name, can use the Utils.removeFileData(packageName,true)
 * @return
 * @method setAppInstallBlacklist
 * @description add application installation blacklist
```



* @date: 2021/1/12

* @author: zouyuanhang

*/

Parameter name / return value	Type	Description	Example
Parameter	String	True-enabled blacklist False-disable blacklist	True Note: If you close the blacklist, need to input the value false to persist.neo.blackList
Parameter	String	Add the application package name for the blacklist	rkandroidapi.ys.com.rkandroidapi
Returned value	boolean	The return value of this interface has no reference value	

Example:

```
MyManager manager = MyManager.getInstance(this);
manager.setAppInstallBlacklist("true","rkandroidapi.ys.com.rkandroidapi");
```

10.20 Turn the network adb connection on or off

Function: public boolean setNetworkAdb (boolean open)

Description:turn the adb on or off

The API version of this interface: V3.4-20190628

/**

* @method setNetworkAdb (boolean open)

* @description turn the network adb connection on or off

* @date 20190628

* @author sky

* @param open, true, turn on the network adb connection switch. False, turn off the network adb connection

*/

Parameter name / Return value	Type	Description	Example
Parameter	Boolean	Whether to turn on the network adb, True-turn on False-turn off	



Returned value	Boolean	The return value of this interface has no reference value	
----------------	---------	---	--

Example:

```
MyManager manager = MyManager.getInstance(this);  
manager.setNetworkAdb(true);
```