

Scanner Integration Documentation

Version	Description	Date	Written by
V1.0	Added scanner integration documentation	2023/11/25	Wade Chen
V1.1	Add Target model: Lark 1	2024/4/3	Wade Chen

1.Introduction

This documentation is designed to provide developers with instructions on controlling the scanner.

Target model

No	Model
1	Crane 1 16"、Crane 1 21.5"、Crane 1 27"、Crane 1 32"
2	Lark 1

2.Demo Guideline

1. Register a broadcast receiver in activity

```
public static String DEVICE_CONNECTION = "com.imin.scanner.api.DEVICE_CONNECTION";
public static String DEVICE_DISCONNECTION = "com.imin.scanner.api.DEVICE_DISCONNECTION";
public static String RESULT_ACTION = "com.imin.scanner.api.RESULT_ACTION";
public static String CONNECTION_BACK_ACTION = "com.imin.scanner.api.CONNECTION_RESULT";
public static String CONNECTION_STATUS_ACTION = "com.imin.scanner.api.DEVICE_IS_CONNECTION";
public static String LABEL_TYPE = "com.imin.scanner.api.label_type";
public static String EXTRA_DECODE_DATA = "decode_data"; //extra string
public static String EXTRA_DECODE_DATA_STR = "decode_data_str"; //extra byte
public static String CONNECTION_TYPE = "com.imin.scanner.api.status";
```

```
String mResultAction;
```

```
private void registerScannerBroadcast() {
    mResultAction = etBroadAction.getText().toString();
    if(TextUtils.isEmpty(mResultAction)){
        mResultAction = RESULT_ACTION;
    }
    IntentFilter intentFilter = new IntentFilter();
    intentFilter.addAction(DEVICE_CONNECTION); // scanner connect broadcast receiver action
    intentFilter.addAction(DEVICE_DISCONNECTION); //scanner disconnect broadcast receiver action
    intentFilter.addAction(mResultAction); //scanner content broadcast receiver action
    intentFilter.addAction(CONNECTION_BACK_ACTION); //scanner status
    //create broadcast receiver
    scannerReceiver = new ScannerReceiver();
    //register
```

```

registerReceiver(scannerReceiver, intentFilter);
}

```

DEVICE_CONNECTION: Indicate the action of scanner broadcast connection

DEVICE_DISCONNECTION: Indicate the action of scanner broadcast disconnection

RESULT_ACTION: Indicate the action of scanner return result

EXTRA_DECODE_DATA: Indicate that the return result carrying key with extra parameter (The value is a string)

EXTRA_DECODE_DATA_STR: Indicate that the return result carrying key with extra parameter (The value in byte format)

CONNECTION_BACK_ACTION: Indicate the broadcast action of requesting scanner connection status

CONNECTION_STATUS_ACTION: The return broadcast action of the scanner connection status

Broadcast receiver processing

```

class ScannerReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        String action = intent.getAction();
        if (action.equals(DEVICE_CONNECTION)) { //scanner is connect
            textView.append("\nUSB Connect");
        } else if (action.equals(DEVICE_DISCONNECTION)) { //scanner is disconnect
            textView.append("\nUSB Disconnect");
        } else if (action.equals(mResultAction)) { //scanner content
            String extraByteData = etBroadByteData.getText().toString();
            String extraData = etBroadData.getText().toString();
            if(TextUtils.isEmpty(extraByteData)){
                //extraByteData = "source_byte";
                extraByteData = EXTRA_DECODE_DATA;
            }
            if(TextUtils.isEmpty(extraData)){
                //extraData = "data";
                extraData = EXTRA_DECODE_DATA_STR;
            }
            String labelType = intent.getStringExtra(LABEL_TYPE);
            byte[] decodeData = intent.getByteArrayExtra(extraByteData);
            String strData = intent.getStringExtra(extraData);

            textView.append( "\nBroadcast result: byte: " + Arrays.toString(decodeData));
            textView.append( "\nBroadcast result: string: " + strData);
            textView.append( "\nscanner count"+ mScanCount++);
            if(mScanCount % 100 == 0){
                textView.setText("");
            }
        } else if (action.equals(CONNECTION_BACK_ACTION)) { //Obtain scanner device connection status
            int type = intent.getIntExtra(CONNECTION_TYPE, 0);
            textView.append("\ndevice isConnection is " + (type == 1));
        }
    }
}
}

```