



**Newland**

SCANNING MADE SIMPLE

# Newland Backup & Recovery API Handbook

Version:1.0.0

# Revision History

| Version | Description      | Date             |
|---------|------------------|------------------|
| V1.0.0  | Initial release. | January 23, 2024 |

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## About This Manual

This manual is applicable to Newland Android Portable Data Collectors (hereinafter referred to “**the terminal**”).

## Development Environment

All APIs are built based on standard Android broadcast mechanism, so there is no need for additional SDKs. The terminal application development environment is the same as Android application development environment.

## Backup & Recovery

### (1) Enable the Backup & Recovery by Sending System the Broadcasts

To activate the terminal to enable the Backup & Recovery, application should send the following broadcast to the system.

Broadcast: **com.nlscan.action.backuprecovery**

| Broadcast Extra     | Parameter | Type   | Remarks  |
|---------------------|-----------|--------|--|
| Command Type        | cmd       | String | Backup Setting: "backup"<br>Recovery Setting: "Recovery"   |
| Specified File Path | path      | String | Specify the file path for Backup & Recovery setting, for example:<br>"/sdcard/my_settings/all.txt"<br><br>(If the setting fails, please verify the correctness of the path or ensure that the necessary permissions are granted. )   |
| Specified Apps      | app       | String | For example, if you want to back up only the key remapping app, enter "keyremap". If you want to back up all applications and system settings, enter "all."<br><br>(Note: Multi-selection of applications via broadcast is not currently supported. If needed, please manually select the applications in the backup and recovery settings.) |

|                             |         |         |  |
|-----------------------------|---------|---------|--|
| Disable Notification Prompt | silence | Boolean | Enter true for silent backup and recovery. If you enter false or omit this parameter, a system message prompt will appear. |
|-----------------------------|---------|---------|--|

Note: The supported apps can be found in the table of "Backup and Recovery Supported App" at the end of the document.

### Example 1:

```
Intent intent = new Intent("com.nlscan.action.backuprecovery");
intent.setComponent(new ComponentName("com.nlscan.nlscanbackuprecovery",
"com.nlscan.nlscanbackuprecovery.receiver.DataReceiver"));

// Parameter "cmd": Use "backup" to save the configuration file, and use "Recovery" to write the
// configuration file to the application.
intent.putExtra("cmd", "backup")
// Parameter "path": Fill in the text file's saving path, for example, "/sdcard/my_settings/all.txt"
intent.putExtra("path", "/sdcard/my_settings/all.txt");
// Parameter "silence": If filled with "true", it is a silent backup and Recovery. If you enter false or
// omit this parameter, a system message prompt will appear.
intent.putExtra("silence", "true");
// Parameter "app": Enter the name of the application to be set, enter "all" to save all applications.
intent.putExtra("app", "all");
// Send a broadcast
mContext.sendBroadcast(intent);
```

## (2) Receive the Broadcast of the Backup & Recovery Execution Result

After initiating a backup & recovery data request, the application receives the execution result through broadcasting

Broadcast : **com.nlscan.action.backuprecovery.result**

| Broadcast Extra     | Parameter | Type   | Remarks  |
|---------------------|-----------|--------|--|
| Command Type        | cmd       | String | The command type specified during the request:<br>"backup" for backup data operations,<br>"Recovery" for Recovery data operations. |
| Specified File Path | path      | String | The file path specified during the request   |

|                              |        |         |  |
|------------------------------|--------|---------|--|
| Specified Apps               | app    | String  | The apps specified during the request                        |
| Operation was succeed or not | result | Boolean | Return true if successful, false if unsuccessful.            |
| Additional Information       | msg    | String  | If the execution fails, the failure reason will be attached. |

**Example :**

```

IntentFilter itFilter = new IntentFilter();
    itFilter.addAction("com.nlscan.action.backuprecovery.result");
    registerReceiver(mDataReceiver, itFilter);
public class DataReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(final Context context, Intent intent) {
        boolean result = intent.getBooleanExtra("result", false);
        String cmd = intent.getStringExtra("cmd");
        String path = intent.getStringExtra("path");
        String app = intent.getStringExtra("app");
        String msg = intent.getStringExtra("msg");
    }
}

```

**(3) Backup & Recovery Supported Apps**

| App Parameters  | App Name               | Remarks         |
|-----------------|------------------------|-----------------|
| admin_tool      | Admin Tool             |                 |
| device_setting  | System Settings        |                 |
| float_setting   | Floating Point         |                 |
| keyremap        | Key Remap              |                 |
| nqsavepower     | NQuire Save Power      | Only for NQuire |
| quick_setting   | Quick Settings         |                 |
| scan_setting    | Scan Settings          |                 |
| screen_saver    | NQuire Screen Saver    | Only for NQuire |
| profile_setting | Profile Settings       |                 |
| whitelist       | Whitelist Tool         |                 |
| wifi_setting    | WIFI Advanced Settings |                 |

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