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Guide to Developing and Launching Apps for Samsung Smart UX Center

The HP Smart UX Center, powered by Android, has provided an exciting, revamped ecosystem for printing application developers. As well as a range of HP-created apps, the Smart UX Center has also opened the door for thousands of potential new apps that users and companies could well be interested in paying for.

For those who have spotted a potential niche in the market, HP has devised a way to let you build new opportunities. Develop applications that can help your enterprise move into a whole new sphere of business – with maximum efficiency and minimum effort.

Does your company have a great idea for a new printing app that can help bring about a smarter office? Do you have a solution that could help office workers enhance their mobile business experience? Would you like to put that idea into practice, and possibly even monetize it? If so, the 'Smart UX App Guide' will show you how it is all done.

What is more, if you are a developer or a partner company, you may be pleased to learn that there is a network of HP staff on hand, ready to share their expertise with you and to take you through the printing app launching process.

4 Easy Steps

The guide takes you through the various roles of HP and more play in helping you launch a Smart UX Center app, namely:

- App development
- Validation and Verification (V&V)
- App registration
- Providing customer service

Master the Process of Developing and Launching Smart UX Center

If you have a great idea for an app for the Smart UX Center, the first thing you will need to do is to gain access to the Smart UX Software Development Kit (SDK).

Before you can register an app on the Smart UX Center, you need to complete the V&V process, a testing process. HP will check every aspect of your app to make sure everything functions fine. If there is an issue, HP will let you know what you need to remedy in order to fix it.

Passing the V&V process means that your app’s stability is guaranteed by HP. It tells end-users that HP has rigorously tested the app for software stability and hardware compatibility, so helps boost users’ trust in developers’ solutions.

Successful apps will be approved to proceed to the next stage, while HP will inform you if your app needs fine tuning before it can be accepted. The V&V process typically takes between two to four weeks.

Once this stage is complete, your app moves on to the Printing App Center registration stage. Here you will need to ready your app for distribution, and provide a promotional image, a user manual and other materials.

Finally, as customer service is as important all app developers, providing ways for customers, regions, and HP to get in touch is essential. It helps give consumers peace of mind – and can build even more consumer confidence in your app.
Why Is the V&V Process Important?

Only approved apps validated through the V&V for Samsung Printing Devices process uploaded for release on the Smart UX Center. For users, this means apps on the center have had their stability thoroughly tested to the point where HP can guarantee their stability. It also means that not only the app itself is stable, but that it will not negatively hinder Samsung printing device and application compatibility.

However, for developers, there are also several key benefits. Stable apps require less service management, in terms of both cost and time. What is more, conducting exhaustive tests with hardware can be time-consuming for software developers.

Also, if your app does not pass the V&V process, HP testers will notify you as to exactly what you need to fix – potentially saving you a lot of time and even money.

Additional Assistance

The guide also contains links to downloads, such as the Smart UX SDK Programming Guide, and a helpful Smart UX App Checklist. There are also some e-mail addresses, handy for when you need to ask questions of HP staff. Find out how you can get in touch with a Smart UX app support network.

There is also an FAQ section, as well as appendices on various R&R cases, getting hold of the Smart UX SDK and registering an app for V&V in the Printing App Center.

To check out examples of how third-party developers have successfully created apps for the Smart UX Center, please refer to the appendix (page 11).

All the Resources You Need to Get Developing!

With all these resources and more, this walkthrough will get you on the road to developing your app, releasing it. Turn your great idea into a profitable technological reality with this comprehensive guide.
**1. Role & Responsibility**

The following outlines the role and responsibility of HP, regions and ISV (Independent Software Vendor)s when launching a Smart UX app.

The process for launching a Smart UX app is comprised of 4 steps.

1. **Smart App Development**
   - Request and download SDK

2. **V&V**
   - Verify the developed application’s compatibility with MFPs and its reliability (with HP).

3. **App Center Registration**
   - Register the verified application in the App Center.

4. **Customer Service**
   - Provide service to customers experiencing issues with the application
2. App Development Guide

Smart UX App Development Process

<table>
<thead>
<tr>
<th>Step</th>
<th>ISV</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1.</td>
<td>Sign up at developer site and request SDK</td>
<td>Administrator approves or rejects</td>
</tr>
<tr>
<td>Step 2.</td>
<td>Download SDK and start development</td>
<td></td>
</tr>
<tr>
<td>Step 3.</td>
<td>Request V&amp;V for registration on the app center after App completion of development</td>
<td></td>
</tr>
<tr>
<td>Step 4.</td>
<td>Register and deploy the app on the App center</td>
<td></td>
</tr>
</tbody>
</table>
Smart UX SDK

- What is the Smart UX SDK?

One of the challenges facing application developers is integrating MFPs printer functionalities into applications. There are numerous proprietary protocols available, as well as some standard ones, such as Postscript and PCL, but these do not support all MFP functions. They can also often be hard to use. Samsung Printing Smart UX SDK solves these problems by introducing Android-based APIs, which are extremely simple and easy to use even for developers with little or no MFP or other printer experience.

(How to Request the Smart UX SDK: Please refer to the appendix.)

- When do you need Smart UX SDK?
  - When developing an application that uses MFP functions (e.g. copy, scan)
  - When using SLM provided by Samsung for the license certification of a paid application
3. V&V (Validation and Verification)

To secure basic performance, compatibility with MFPs and reliability, all apps registered in the App Center must have passed V&V test. For V&V, basic performance tests, installation tests and security tests will be conducted. For certain apps, V&V costs may be charged depending on the purpose of the test.

V&V Process

① [precondition] If you do not have a Account, you will need to create one.

② A developer has to request Developer Level at the Printing App Center(https://smartux.samsung.com).
   Only developers can register apps for V&V in the Printing App Center.

③ Register the app for V&V in App Center: Please refer to the appendix.
   (Required documents are release note, internal test result report and app’s manual.)

④ V&V results will be uploaded on the app center and notified to the developer by an e-mail.

V&V Policy

The below is the V&V process after an app is registered

- Submit
  - Register an app, icon image files and the document files and input information of the app on the Printing App Center after internal test (Please check the ‘Printer Specific Check list’ for the internal test)

  Printer_Specific_Check list_V1.4.xlsx

  - If you have any problem for registering your app and related files on the App Center, you can register your question or message by contact us.
    (https://smartux.samsung.com/support/ask)
- **Assign**
  - HP will assign a tester for V&V
  - Check the submitted data and test schedule

- **Verify**
  A period of 1-3 weeks is required for V&V. After this is completed, the submitter will get notified with the result by an e-mail. Because the tester will upload the test result on the App Center, the submitter can check the detailed test result on the App Center. If the app passes the V&V test, it will be distributed through the Printing App Center as HP’s own plan. If it fails, it will not be registered and the submitter will need to submit a revised version.

- **Deploy**
  - HP inserts the ‘Certification Key’ into the APK where V&V is passed before deployment.

**When are V&V costs incurred?**

The V&V costs may be charged when an ISV requests only V&V in order for HP to sell its application independently without registering it in the App Center.
4. Customer Service

The ISV has to resolve issues those are occurred when its application is used. It needs to provide its customer service policy and contact points, where customers, dealers, regions and HP can get assistance.

The ISV’s contact information will be posted on the Printing App Center as an example below.

<table>
<thead>
<tr>
<th>Company</th>
<th>Offered By</th>
<th>Developer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estmob</td>
<td>Estmob</td>
<td>Estmob</td>
</tr>
<tr>
<td>Website</td>
<td>Email</td>
<td></td>
</tr>
<tr>
<td><a href="https://send-anywhere.com/">https://send-anywhere.com/</a></td>
<td><a href="mailto:support.android@estmob.com">support.android@estmob.com</a></td>
<td></td>
</tr>
</tbody>
</table>

5. Contact Point

For Smart UX App support: [https://smartux.samsung.com/support/ask](https://smartux.samsung.com/support/ask) or printingapps@hp.com

- Printing App Center
- V&V

For Smart UX SDK development support: smartux.sdk@hp.com

- Smart UX app development
- Smart UX SDK download and Q&A
6. Appendix

How to get the Smart UX SDK

① Via the HP Developer Site (https://developers.hp.com), go to “Get Started”

② Click “Smart UX” under Commercial and Enterprise Printing category
③ Input Application information in details and Apply for SDK Request

④ Register HP Developer and create new account

⑤ Wait till having HP approval and Download the Smart UX SDK
⑥ Once you are registered, visit the HP Developer Portal (https://developers.hp.com), click “Smart UX” under Commercial and Enterprise Printing category,

![HP Developer Portal](https://developers.hp.com)

⑦ Click “Download SDK” and your download should start automatically.

![Samsung Smart UX Center](smartux.png)

**Smart Printing. Business Innovation.**

Samsung Printing Smart UX SDK (Smart UX SDK) is an Android™ based Samsung SDK for the MultiXpress and ProXpress line of MFPs (Multi-Functional Printers).

![Download SDK](download-sdk.png)
How to register an app for V&V in the Printing App Center

① Sign in at the Printing App Center (https://smartux.samsung.com) with the account
Every user SHOULD create the account before signing in
If you are not a member yet, click ‘Sign up now’

② Developer Level Request
Click the ‘My Page’ button on the right upper side to move to ‘My Profile’ page
Check the ‘Developer’ checkbox beside the select box of the ‘Account Type’ in the ‘Additional Information’ section
Fill in the required fields, and click ‘Save’ button
You will see this pop-up when the request is completed

③ Approved

If your request is approved, you will be notified by an e-mail

Hello, this is Samsung Printing App Center.
Developer level is approved.
Thank you!
④ Login and Check the radio button for changing user level to ‘Developer’ for your user ID
Select ‘App’ > ‘Requested Apps’ under ‘Settings’ menu

⑤ App Register
Select ‘App’ > ‘Requested Apps’ under ‘Settings’ menu
Click ‘Register New App’
Fill out the form and upload required documents & files and App to be tested

App Center Category

Various apps are categorized by solution/industry/deployment type and search for apps by using filters.
When a developer registers an app, the categories should be selected as below.

Settings > App > Requested Apps > Register New App > APP INFO

<table>
<thead>
<tr>
<th>Solution Type</th>
<th>The developer needs to select one of the solution types, Document Management, Fleet Management, Output Management or Utility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry Type</td>
<td>The developer needs to select one of the vertical types, Education, Healthcare, Finance, Legal and Manufacturing</td>
</tr>
<tr>
<td>Deployment Type</td>
<td>The developer needs to select a deployment type out of types, Server, Embedded and Cloud</td>
</tr>
</tbody>
</table>
⑥ Click ‘Submit’ button

⑦ App Confirmation

Submitted Apps can be checked in ‘App’ > ‘Requested Apps’ > ‘Details’ under ‘Settings’ me
Certification Key

- What is a Certification key?
  Certification key is used in order to sort solutions (apps) that have passed V&V stage.

- When is the Certification key inserted?
  HP inserts the Certification key into the APK if the app passes the V&V stage.

- What is the function of the Certification Key?
  The key guarantees that the solution is certified

- Why is an authentication key needed?
  - **HP does not provide a warranty for any issue arising from non-certified applications.**
  - Charges may apply for services provided to remedy problems caused by non-certified applications.
  - Third-party developers or users take responsibility for any problem caused by using a non-certified application.
  - A warning message is displayed when installing an application without a Certification Key, and it may appear continuously when using the program.