Samsung Pay Vulnerability Reporting

Samsung pay uses Knox platform

Version: 2.8.49

Current version: 2.9.33

Package Name: com.samsung.android.spay

Vulnerabilities found:

- O Exposure of private information
- O Improper export of Android components

Vulnerabilities found

- 1. Exposure of private information (credit card number and cardholder name):
 - O **Impact description:** Exposure of credit card number and card holder's name can be sniffed by a malicious app with accessibility permission. The leak can lead to financial loss to the customer
 - O Steps to reproduce:
 - Create an app with accessibility permission and install it in the Samsung device
 - Start the app, the app will intercept all the UI events and store it in a file
 - Open Samsung pay app and got add credit card option and try manual entry of the credit card number
 - After adding the credit card number, check the file created by our app. It will contain the credit card number and the holder's name
 - O Screenshots:
 - O Available on latest version also
 - O **Impact description:** Several activities in SPay are exported with complete access. But when an attacker tries to launch the activity the app closes automatically and sends an error report. So it is not exploitable
 - O Screenshots



09-04 19:15:46.373 EventType: TYPE_VIEW_TEXT_SELECTION_CHANGED; EventTime: 6671660; PackageName: com.samsung.android.spay; MovementGranularity: 0; Action: 0 [ClassName: android.widget.Editrext; Text: [ravan]; ContentDescription: null; ItemCount: 5; CurrentItemIndex: -1; IsEnabled: true; IsPassword: false; IsChecked: false; IsFullScreen: false; Scrollable: false; BeforeText: null; FromIndex: 5; ToIndex: 5; ScrollX: -1; MaxScrollX: -1; MaxScrollY: -1; AddedCount: -1; RemovedCount: -1; ParcelableData: null]; recordCount: 0

09-04 16:49:01.963 EventType: TYPE_VIEW_TEXT_SELECTION_CHANGED; EventTime: 1424551; PackageName: com.samsung.android.spay; MovementGranularity: 0; Action: 0 [ClassName: android.widget.EditText; Text: [9995]; ContentDescription: null; ItemCount: 4; CurrentItemIndex: -1; IsEnabled: true; IsPassword: false; IsChecked: false; IsFullScreen: false; Scrollable: false; BeforeText: null; FromIndex: 4; ToIndex: 4; ScrollX: -1; ScrollY: -1; MaxScrollX: -1; MaxScrollY: -1; AddedCount: -1; RemovedCount: -1; ParcelableData: null]; recordCount: 0

09-04 16:49:05.158 EventType: TYPE_VIEW_TEXT_CHANGED; EventTime: 1427746; PackageName: com.samsung.android.spay; MovementGranularity: 0; Action: 0 [ClassName: android.w dget.EditText; Text: [1234]; ContentDescription: null; ItemCount: -1; CurrentItemIndex: -1; IsEnabled: true; IsPassword: false; IsChecked: false; IsFullScreen: false; BeforeText: 123; FromIndex: 3; ToIndex: -1; ScrollX: -1; MaxScrollX: -1; MaxScrollY: -1; AddedCount: 1; RemovedCount: 0; ParcelableData: nu]; recordCount: 0