

Test security and privacy of your mobile application (iOS & Android), detect OWASP Mobile Top 10 and other weaknesses.

Summary of Mobile Application Security Test



APP NAME

Дія

APP ID

ua.gov.diaa.app

APP VERSION

3.0.6

DEVICE TYPE

Android

TEST STARTED

August 3rd 2021, 13:45

TEST FINISHED

August 3rd 2021, 14:14



OWASP Mobile
Top 10 Security Test

7 MAJOR RISKS FOUND



Mobile App
Privacy and Behavior

2 PERMISSIONS



Software
Composition Analysis

39 COMPONENTS FOUND



Mobile App External
Communications

8 MAJOR RISKS FOUND

Mobile App Privacy and Behavior Test

Mobile Application Functionality

The mobile application uses the following functionality that can endanger user's privacy under certain circumstances:

Camera

The mobile application can use the camera for taking pictures or videos.

Storage

The mobile application can access external storage (e.g. SD card) in a write or read mode.

OWASP Mobile Top 10 Security Test

The automated audit revealed the following security flaws and weaknesses that may impact the application:

HIGH RISKS

5

MEDIUM RISKS

3

LOW RISKS

4

WARNINGS

5

Zero false-positive SLA and advanced manual testing of application is only available in ImmuniWeb® MobileSuite.

HARDCODED SENSITIVE DATA [M10] [CWE-200] [SAST]

HIGH

Description:

The mobile application contains potentially sensitive hardcoded data. An attacker with an access to the mobile application file can easily extract this data from the application and use it in any further attacks.

Details:

There is '**password**' found in file '[ua/gov/diia/app/util/docsign/iit/http/GenPKeyStep1Request.java](#)':

```
line 15:    public GenPKeyStep1Request(@k(name = "name") String str, @k(name =
"password") String str2, @k(name = "crRequest") byte[] bArr, @k(name = "clientData")
byte[] bArr2) {
```

There is '**password**' found in file '[ua/gov/diia/app/util/docsign/iit/http/GenPKeyStep1RequestJsonAdapter.java](#)':

```
line 25:    a a = a.a(str, "password", str2, "clientData");
```

There is '**LOGIN_BY_PASSWORD**' found in file '[com/huawei/hms/support/api/entity/common/CommonConstant.java](#)':

```
line 112:    public static final String LOGIN_BY_PASSWORD =
"hwid://com.huawei.hwid/loginbypassword";
```

CVSSv3 Base Score:

5.5 (AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:N)

EXTERNAL DATA IN SQL QUERIES [M7] [CWE-89] [SAST]

HIGH

Description:

Inclusion of input into raw SQL queries can potentially lead to a local SQL injection vulnerability in the mobile application. The correct approach is to use prepared SQL statements beyond user's control.

Example of insecure code:

```
db.rawQuery("SELECT username FROM users_table WHERE id = '"+ input_id +"'");
db.execSQL("SELECT username FROM users_table WHERE id = '"+ input_id +"'");
```

Example of secure code:

```
PreparedStatement pstmt = con.prepareStatement("UPDATE EMPLOYEES SET SALARY = ? WHERE
ID = ?");
pstmt.setBigDecimal(1, 153833.00)
pstmt.setInt(2, 110592)
```

Details:

There is '`execSQL()`' found in file '`rc0/af/c.java`':

```
line 274:          workDatabase_Impl.a = b;
line 275:          b.a.execSQL("PRAGMA foreign_keys = ON");
line 276:          e eVar = WorkDatabase_Impl.this.d;
```

There is '`rawQuery()`' found in file '`a0/f/a/a/i/t/i/z.java`':

```
line 47:          this.b = true;
line 48:          SQLiteDatabase.rawQuery("PRAGMA busy_timeout=0;", new
String[0]).close();
line 49:          SQLiteDatabase.setForeignKeyConstraintsEnabled(true);
```

CVSSv3 Base Score:

7.3 (CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:L)

Reference:

- <https://developer.android.com/reference/android/database/sqlite/SQLiteDatabase.html>
- <https://developer.android.com/reference/java/sql/PreparedStatement.html>

HARDCODED ENCRYPTION KEYS [M5] [CWE-798] [SAST]

HIGH

Description:

Hardcoded encryption keys can jeopardize secure data storage and transmission within the mobile application under certain circumstances.

Example of insecure code:

```
byte[] key = {1, 2, 3, 4, 5, 6, 7, 8};
SecretKeySpec spec = new SecretKeySpec(key, "AES");
Cipher aes = Cipher.getInstance("AES");
aes.init(Cipher.ENCRYPT_MODE, spec);
return aesCipher.doFinal(secretData);
```

Example of secure code:

```
// Don't hardcode encryption keys in your code.
// You can generate a key with KeyGenerator,
// use an user input, or retrieve it from a server via secure protocol.
KeyGenerator keyGen = KeyGenerator.getInstance("AES");
keyGen.init(key_size);
SecretKey secretKey = keyGen.generateKey();
```

Details:

There is '`SecretKeySpec()`' found in file '`r/k/b/e.java`':

```
line 1249:          d(bArr, 6);
line 1250:          return new
SecretKeySpec(SecretKeyFactory.getInstance("PBKDF2WithHmacSHA1").generateSecret(new
PBEKeySpec(a0.g.a.h.c.a.b(e(bArr, bArr3)).toCharArray(), bArr4, i, 128)).getEncoded(),
"AES");
line 1251:          }
```

There is '**SecretKeySpec()**' found in file '`com/huawei/agconnect/credential/obs/h.java`':

```
line 66:         if (str.length() == 32 && str2.length() == 32 && str3.length() == 32)
{
line 67:             return new
SecretKeySpec(SecretKeyFactory.getInstance("PBKDF2WithHmacSHA1").generateSecret(new
PBEKeySpec(a(str, str2, str3).toCharArray(), as.a(str4), 5000, 128)).getEncoded(),
"AES");
line 68:         }
```

CVSSv3 Base Score:

7.4 (AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:N)

Reference:

- <https://developer.android.com/reference/javax/crypto/spec/SecretKeySpec.html>
- <http://find-sec-bugs.github.io/bugs.htm>

WEAK HASHING ALGORITHMS [M5] [CWE-916] [SAST]

HIGH

Description:

The mobile application uses weak hashing algorithms. Weak hashing algorithms (e.g. MD2, MD4, MD5 or SHA-1) can be vulnerable to collisions and other security weaknesses, and should not be used when reliable hashing of data is required.

Example of insecure code:

```
MessageDigest md = MessageDigest.getInstance("SHA-1");
```

Example of secure code:

```
MessageDigest md = MessageDigest.getInstance("SHA-256");
```

Details:

There is '**getInstance("MD5")**' found in file '`r/c/b.java`':

```
line 317:         k.e(bVar, "base64Wrapper");
line 318:         bArr = MessageDigest.getInstance("MD5").digest(bArr);
line 319:         k.d(bArr, "md.digest(this)");
```

CVSSv3 Base Score:

5.5 (AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:N)

Reference:

- <https://developer.android.com/reference/java/security/MessageDigest.html>

CLEARTEXT SQLITE DATABASE [M2] [CWE-312] [DAST]

HIGH

Description:

The mobile application uses an unencrypted SQLite database.

This database can be accessed by an attacker with physical access to the mobile device or a malicious application with root access to the device. The application should not store sensitive information in clear text.

Details:

In file `userEvent.db`:

```
TABLES:
android_metadata
APIEVENT
sqlite_sequence
EVENT

RAW DUMP:
CREATE TABLE android_metadata (locale TEXT);CREATE TABLE IF NOT EXISTS "APIEVENT"
("_id" INTEGER PRIMARY KEY AUTOINCREMENT , "CODE" TEXT, "TIMESTAMP" TEXT, "TYPE"
TEXT, "NAME" TEXT, "RESULT" TEXT, "ERROR_CODE" TEXT, "EVENT_ID" TEXT, "EVENT_CNT"
TEXT, "COST_TIME" TEXT);CREATE TABLE sqlite_sequence(name,seq);CREATE TABLE IF NOT
EXISTS "EVENT" ("_id" INTEGER PRIMARY KEY AUTOINCREMENT , "EVTID" TEXT, "EVTTYPE"
TEXT, "CONTENT" TEXT, "EVTTIME" TEXT, "SERVICETAG" TEXT, "SESSIONID" TEXT, "SESSIONNAME"
TEXT, "ID" TEXT, "PID" TEXT);
```

In file `androidx.work.workdb`:

```
TABLES:
android_metadata
Dependency
sqlite_autoindex_Dependency_1
index_Dependency_work_spec_id
index_Dependency_prerequisite_id
WorkSpec
sqlite_autoindex_WorkSpec_1
index_WorkSpec_schedule_requested_at
index_WorkSpec_period_start_time
WorkTag
sqlite_autoindex_WorkTag_1
index_WorkTag_work_spec_id
SystemIdInfo
sqlite_autoindex_SystemIdInfo_1
WorkName
sqlite_autoindex_WorkName_1
index_WorkName_work_spec_id
WorkProgress
sqlite_autoindex_WorkProgress_1
Preference
sqlite_autoindex_Preference_1
room_master_table

RAW DUMP:
CREATE TABLE android_metadata (locale TEXT);CREATE TABLE `Dependency` (`work_spec_id`
TEXT NOT NULL, `prerequisite_id` TEXT NOT NULL, PRIMARY KEY(`work_spec_id`,
`prerequisite_id`), FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE
CASCADE ON DELETE CASCADE , FOREIGN KEY(`prerequisite_id`) REFERENCES `WorkSpec`(`id`)
ON UPDATE CASCADE ON DELETE CASCADE );CREATE INDEX `index_Dependency_work_spec_id` ON
`Dependency` (`work_spec_id`);CREATE INDEX `index_Dependency_prerequisite_id` ON
`Dependency` (`prerequisite_id`);CREATE TABLE `WorkSpec` (`id` TEXT NOT NULL, `state`
INTEGER NOT NULL, `worker_class_name` TEXT NOT NULL, `input_merger_class_name` TEXT,
`input` BLOB NOT NULL, `output` BLOB NOT NULL, `initial_delay` INTEGER NOT NULL,
`interval_duration` INTEGER NOT NULL, `flex_duration` INTEGER NOT NULL,
`run_attempt_count` INTEGER NOT NULL, `backoff_policy` INTEGER NOT NULL,
`backoff_delay_duration` INTEGER NOT NULL, `period_start_time` INTEGER NOT NULL,
`minimum_retention_duration` INTEGER NOT NULL, `schedule_requested_at` INTEGER NOT
NULL, `run_in_foreground` INTEGER NOT NULL, `required_network_type` INTEGER,
`requires_charging` INTEGER NOT NULL, `requires_device_idle` INTEGER NOT NULL,
```

```

requires_charging` INTEGER NOT NULL, `requires_device_id` INTEGER NOT NULL,
`requires_battery_not_low` INTEGER NOT NULL, `requires_storage_not_low` INTEGER NOT
NULL, `trigger_content_update_delay` INTEGER NOT NULL, `trigger_max_content_delay`
INTEGER NOT NULL, `content_uri_triggers` BLOB, PRIMARY KEY(`id`));CREATE INDEX
`index_WorkSpec_schedule_requested_at` ON `WorkSpec` (`schedule_requested_at`);CREATE
INDEX `index_WorkSpec_period_start_time` ON `WorkSpec` (`period_start_time`);CREATE
TABLE `WorkTag` (`tag` TEXT NOT NULL, `work_spec_id` TEXT NOT NULL, PRIMARY KEY(`tag`,
`work_spec_id`), FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE
CASCADE ON DELETE CASCADE );CREATE INDEX `index_WorkTag_work_spec_id` ON `WorkTag`
(`work_spec_id`);CREATE TABLE `SystemIdInfo` (`work_spec_id` TEXT NOT NULL, `system_id`
INTEGER NOT NULL, PRIMARY KEY(`work_spec_id`), FOREIGN KEY(`work_spec_id`) REFERENCES
`WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE CASCADE );CREATE TABLE `WorkName` (`name`
TEXT NOT NULL, `work_spec_id` TEXT NOT NULL, PRIMARY KEY(`name`, `work_spec_id`),
FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE
CASCADE );CREATE INDEX `index_WorkName_work_spec_id` ON `WorkName`
(`work_spec_id`);CREATE TABLE `WorkProgress` (`work_spec_id` TEXT NOT NULL, `progress`
BLOB NOT NULL, PRIMARY KEY(`work_spec_id`), FOREIGN KEY(`work_spec_id`) REFERENCES
`WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE CASCADE );CREATE TABLE `Preference` (`key`
TEXT NOT NULL, `long_value` INTEGER, PRIMARY KEY(`key`));CREATE TABLE room_master_table
(id INTEGER PRIMARY KEY,identity_hash TEXT);

```

CVSSv3 Base Score:

7.1 (AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:N)

WEAK ENCRYPTION [M5] [CWE-327] [SAST]

MEDIUM

Description:

Weak or badly implemented encryption algorithms can endanger data storage and transmission used by the mobile application.

Example of insecure code:

```

Cipher c = Cipher.getInstance("AES/ECB/NoPadding");
c.init(Cipher.ENCRYPT_MODE, k, iv);
byte[] cipherText = c.doFinal(plainText);

```

Example of secure code:

```

Cipher c = Cipher.getInstance("AES/GCM/NoPadding");
c.init(Cipher.ENCRYPT_MODE, k, iv);
byte[] cipherText = c.doFinal(plainText);

```

Details:

There is 'RSA/ECB/OAEPWITHSHA-1ANDMGF1PADDING' found in file 'com/huawei/hms/hatool/e.java':

```

line 53:          try {
line 54:              Cipher instance = Cipher.getInstance("RSA/ECB/OAEPWITHSHA-
1ANDMGF1PADDING");
line 55:              instance.init(1, publicKey);

```

There is 'RSA/ECB/OAEPWITHSHA-1ANDMGF1PADDING' found in file 'com/huawei/hianalytics/mn/no/mn/st.java':

```
line 25:          try {
line 26:              Cipher instance = Cipher.getInstance("RSA/ECB/OAEPWITHSHA-
1ANDMGF1PADDING");
line 27:              instance.init(1, publicKey);
```

There is 'RSA/ECB/OAEPWithSHA-256AndMGF1Padding' found in file 'com/huawei/hms/analytics/core/crypto/RsaCipher.java':

```
line 20:          try {
line 21:              Cipher instance = Cipher.getInstance("RSA/ECB/OAEPWithSHA-
256AndMGF1Padding");
line 22:              instance.init(2, privateKey);
```

```
line 75:          L_0x0048:
line 76:              r2 = "RSA/ECB/OAEPWithSHA-256AndMGF1Padding";
line 77:              r2 = javax.crypto.Cipher.getInstance(r2);          Catch:{
InvalidKeySpecException -> 0x006f, NoSuchAlgorithmException -> 0x006c,
InvalidKeyException -> 0x0069, NoSuchPaddingException -> 0x0066, BadPaddingException ->
0x0063, IllegalBlockSizeException -> 0x0060 }
```

CVSSv3 Base Score:

4.8 (AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N)

Reference:

- <https://developer.android.com/reference/javax/crypto/Cipher.html>
- <http://find-sec-bugs.github.io/bugs.htm>

EXTERNAL DATA STORAGE [M2] [CWE-921] [SAST]

MEDIUM

Description:

The mobile application can access external storage (e.g. SD card) in read or write mode. The application's data stored on the external data storage may be accessed by other applications (including malicious ones) under certain conditions and bring risks of data corruption or tampering.

Example of insecure code:

```

/* Checks if external storage is available for read and write */
public boolean isExternalStorageWritable() {
    String state = Environment.getExternalStorageState();
    if (Environment.MEDIA_MOUNTED.equals(state)) {
        return true;
    }
    return false;
}

/* Checks if external storage is available to at least read */
public boolean isExternalStorageReadable() {
    String state = Environment.getExternalStorageState();
    if (Environment.MEDIA_MOUNTED.equals(state) ||
        Environment.MEDIA_MOUNTED_READ_ONLY.equals(state)) {
        return true;
    }
    return false;
}

```

Example of secure code:

```

// If you use external storage you should perform input validation.
// In the case that you use external storage for executables files,
// these files should be signed and cryptographically verified.

```

Details:

There is '**getExternalFilesDir()**' found in file

'[ua/gov/diia/app/ui/fragments/paydata/download/AndroidDownloadManagerReceiptDownloader.java](#)':

```

line 89:         Context context = this.d;
line 90:         return context != null ?
context.getExternalFilesDir(Environment.DIRECTORY_DOWNLOADS) : null;
line 91:     }

```

There is '**getExternalStorageState()**' found in file '[com/huawei/hms/availableupdate/d.java](#)':

```

line 88:     }
line 89:     if ("mounted".equals(Environment.getExternalStorageState())) {
line 90:         String str2 = gVar.b;

```

There is '**getExternalCacheDir()**' found in file '[com/huawei/hms/availableupdate/l.java](#)':

```

line 64:         if (this.b == null) {
line 65:             this.b = context.getExternalCacheDir() != null ?
b(context.getExternalCacheDir()) : b(context.getFilesDir());
line 66:         }

```


There is '`getExternalStorageDirectory()`' found in file '`com.huawei.agconnect/crash/internal/bean/DeviceInfo.java`':

```
line 265:         try {
line 266:             double availableBytes = (double) new
StatFs(Environment.getExternalStorageDirectory()).getAbsolutePath()).getAvailableBytes()
;
line 267:             Double.isNaN(availableBytes);
```

CVSSv3 Base Score:

5.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:L)

Reference:

- <https://developer.android.com/training/basics/data-storage/files.html>

JS ENABLED IN A WEBVIEW [M10] [CWE-749] [SAST]

MEDIUM

Description:

The mobile application has enabled JavaScript in WebView. By default, JavaScript is disabled in WebView, if enabled it can bring various JS-related security issues, such as Cross-Site Scripting (XSS) attacks.

Example of insecure code:

```
WebSettings settings = webView.getSettings();
settings.setJavaScriptEnabled(true);
```

Example of secure code:

```
// Don't enable Javascript in WebView
```

Details:

There is '`setJavaScriptEnabled(true)`' found in file '`ua/tranzzo/checkout_sdk/ui/web_view/WebViewActivity.java`':

```
line 83:         settings.setJavaScriptEnabled(true);
```

There is '`setJavaScriptEnabled(true)`' found in file '`ua/gov/diia/app/ui/fragments/login/bankid/BankIdF.java`':

```
line 313:         settings.setJavaScriptEnabled(true);
```

CVSSv3 Base Score:

4.8 (AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N)

Reference:

- <https://developer.android.com/reference/android/webkit/WebView.html>
- <https://developer.android.com/reference/android/webkit/WebSettings.html>

HARDCODED DATA [M2] [CWE-200] [SAST]

LOW

Description:

The mobile application contains debugging or other technical information that may be extracted and used by an attacker to facilitate further attacks.

<https://> with value <https://api2.diia.gov.ua/api/v1/auth/bank-id/code/callback> in following files:

- [ua/gov/diia/app/BuildConfig.java](#):

```
line 6: public static final String BANK_ID_CALLBACK_URL =
"https://api2.diia.gov.ua/api/v1/auth/bank-id/code/callback";
```

- [ua/gov/diia/app/ui/fragments/login/bankid/BankIdF.java](#):

```
line 90: r4 = "https://api2.diia.gov.ua/api/v1/auth/bank-id/code/callback";
```

[https://](#) with value [https://api2.diia.gov.ua](#) in following files:

- [ua/gov/diia/app/BuildConfig.java](#):

```
line 6: public static final String BANK_ID_CALLBACK_URL =
"https://api2.diia.gov.ua/api/v1/auth/bank-id/code/callback";
line 15: public static final String SERVER_URL = "https://api2.diia.gov.ua";
```

- [ua/gov/diia/app/network/ws/OkHttpWsApi.java](#):

```
line 706: r6 = "https://api2.diia.gov.ua";
```

[https://](#) with value [https://thedigital.gov.ua/iban](#) in following files:

- [ua/gov/diia/app/ui/fragments/publicservice/assist/AssistIbanF.java](#):

```
line 254: tVar.c(A0, r.g.a.q(this.a), "https://thedigital.gov.ua/iban");
```

- [ua/gov/diia/app/ui/fragments/dialogs/assist/AssistInfoDF.java](#):

```
line 104: assistInfoDF.e3 = "https://thedigital.gov.ua/iban";
```

[https://](#) with value [https://diia.gov.ua/news/kvedy](#) in following files:

- [ua/gov/diia/app/ui/fragments/dialogs/assist/AssistInfoDF.java](#):

```
line 97: assistInfoDF.e3 = "https://diia.gov.ua/news/kvedy";
```

[https://](#) with value [https://greenrobot.org/greendao/documentation/database-encryption/](#) in following files:

- [g0/b/a/h/b.java](#):

```
line 49: throw new d("Using an encrypted database requires SQLCipher, make
sure to add it to dependencies:
https://greenrobot.org/greendao/documentation/database-encryption/");
```

[https://](#) with value [https://localhost/v1/crashlogs](#) in following files:

- [a0/g/a/j/a/f.java](#):

```
line 265: private String url = "https://localhost/v1/crashlogs";
```

[https://](#) with value [https://plus.google.com/](#) in following files:

- [a0/f/a/c/d/k/x0.java](#):

```
line 6: Uri parse = Uri.parse("https://plus.google.com/");
```

[https://](#) with value [https://www.huawei.com/auth/account/shipping.address](#) in following files:

- [com/huawei/hms/support/api/entity/hwid/QueryShippingAddressResp.java](#):

```
line 3: @Checked(permission =  
"com.huawei.android.hms.account.getShippingAddress", scope =  
"https://www.huawei.com/auth/account/shipping.address", value =  
"SHIPPING_ADDRESS")
```

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 93: public static final String SCOPE_ACCOUNT_SHIPPING_ADDRESS =  
"https://www.huawei.com/auth/account/shipping.address";
```

[https://](#) with value <https://www.huawei.com/auth/account/base.profile/accesstoken> in following files:

- [com/huawei/hms/support/api/entity/hwid/SignInResp.java](#):

```
line 5: @Checked(permission =  
"https://www.huawei.com/auth/account/base.profile/accesstoken", value =  
"ACCESSTOKEN")
```

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 12: public static final String ACCESS_TOKEN =  
"https://www.huawei.com/auth/account/base.profile/accesstoken";
```

[https://](#) with value <https://www.huawei.com/auth/account/country> in following files:

- [com/huawei/hms/support/api/entity/hwid/SignInResp.java](#):

```
line 7: @Checked(permission = "com.huawei.android.hms.account.getCountry",  
scope = "https://www.huawei.com/auth/account/country", value =  
"COUNTRY_CODE")  
line 19: @Checked(permission = "com.huawei.android.hms.account.getCountry",  
scope = "https://www.huawei.com/auth/account/country", value =  
"SERVICE_COUNTRY_CODE")
```

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 88: public static final String SCOPE_ACCOUNT_COUNTRY =  
"https://www.huawei.com/auth/account/country";
```

[https://](#) with value <https://www.huawei.com/auth/account/base.profile> in following files:

- [com/huawei/hms/support/api/entity/hwid/SignInResp.java](#):

```

line 5: @Checked(permission =
"https://www.huawei.com/auth/account/base.profile/accesstoken", value =
"ACCESSTOKEN")
line 9: @Checked(permission =
"com.huawei.android.hms.account.getBaseProfile", scope =
"https://www.huawei.com/auth/account/base.profile", value = "GENDER")
line 11: @Checked(permission =
"com.huawei.android.hms.account.getBaseProfile", scope =
"https://www.huawei.com/auth/account/base.profile", value = "DISPLAY_NAME")
line 17: @Checked(permission =
"https://www.huawei.com/auth/account/base.profile/serviceauthcode", value =
"SERVICE_AUTH_CODE")
line 25: @Checked(permission =
"com.huawei.android.hms.account.getBaseProfile", scope =
"https://www.huawei.com/auth/account/base.profile", value = "STATUS")
line 27: @Checked(permission =
"com.huawei.android.hms.account.getBaseProfile", scope =
"https://www.huawei.com/auth/account/base.profile", value = "PHOTO_URL")

```

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```

line 12: public static final String ACCESS_TOKEN =
"https://www.huawei.com/auth/account/base.profile/accesstoken";
line 13: public static final String SERVICE_AUTH_CODE =
"https://www.huawei.com/auth/account/base.profile/serviceauthcode";
line 87: public static final String ACCOUNT_BASEPROFILE =
"https://www.huawei.com/auth/account/base.profile";

```

[https://](#) with value [https://www.huawei.com/auth/account/base.profile/serviceauthcode](#) in following files:

- [com/huawei/hms/support/api/entity/hwid/SignInResp.java](#):

```

line 17: @Checked(permission =
"https://www.huawei.com/auth/account/base.profile/serviceauthcode", value =
"SERVICE_AUTH_CODE")

```

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```

line 13: public static final String SERVICE_AUTH_CODE =
"https://www.huawei.com/auth/account/base.profile/serviceauthcode";

```

[https://](#) with value [https://www.huawei.com/auth/account/nonincludegranted](#) in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```

line 9: public static final String NON_INCLUDE_GRANTED =
"https://www.huawei.com/auth/account/nonincludegranted";

```

[https://](#) with value [https://www.huawei.com/auth/games](#) in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```

line 90: public static final String SCOPE_ACCOUNT_GAME =
"https://www.huawei.com/auth/games";

```

[https://](#) with value [https://www.huawei.com/auth/account/age.range](#) in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 94: public static final String SCOPE_AGE_RANGE =
"https://www.huawei.com/auth/account/age.range";
```

[https://](#) with value <https://www.huawei.com/auth/account/homezone> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 95: public static final String SCOPE_HOME_ZONE =
"https://www.huawei.com/auth/account/homezone";
```

[https://](#) with value <https://www.huawei.com/auth/account/age.groupflag> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 96: public static final String SCOPE_IS_ADULT =
"https://www.huawei.com/auth/account/age.groupflag";
```

[https://](#) with value <https://www.huawei.com/auth/account/mobile.flag> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 97: public static final String SCOPE_MOBILE_FLAG =
"https://www.huawei.com/auth/account/mobile.flag";
```

[https://](#) with value <https://www.huawei.com/auth/account/mobile.number> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 98: public static final String SCOPE_MOBILE_NUMBER =
"https://www.huawei.com/auth/account/mobile.number";
```

[https://](#) with value <https://www.huawei.com/auth/account/realname.anonymous> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 99: public static final String SCOPE_REALNAME_ANONYMOUS =
"https://www.huawei.com/auth/account/realname.anonymous";
```

[https://](#) with value <https://diia.app> in following files:

- [e/a/a/a/d0/a.java](#):

```
line 25: return new c((String) C.get(2), (String) C.get(3), (String)
C.get(5), a0.b.a.a.a.D("https://diia.app", str));
```

[https://](#) with value <https://diia.app/message/> in following files:

- [e/a/a/a/c0/b.java](#):

```
line 70: r2 = "https://diia.app/message/";
line 165: r2 = "https://diia.app/message/public/";
```

[https://](#) with value <https://diia.app/replacement-driver-license/> in following files:

- [e/a/a/a/c0/b.java](#):

```
line 94: r1 = "https://diia.app/replacement-driver-license/";
```

[https://](#) with value <https://diia.app/petition/> in following files:

- **e/a/a/a/c0/b.java:**

```
line 102: r1 = "https://diia.app/petition/";
```

https:// with value https://diia.app/vaccination/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 110: r1 = "https://diia.app/vaccination/";
```

https:// with value https://diia.app/social-assistance/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 118: r1 = "https://diia.app/social-assistance/";
```

https:// with value https://diia.app/acquirers/document-request/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 128: r2 = "https://diia.app/acquirers/document-request/";
```

https:// with value https://diia.app/debt/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 131: r1 = "https://diia.app/debt/";
```

https:// with value https://diia.app/penalty/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 139: r1 = "https://diia.app/penalty/";
```

https:// with value https://diia.app/message/public/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 165: r2 = "https://diia.app/message/public/";
```

https:// with value https://diia.app/app-session/ in following files:

- **e/a/a/a/c0/b.java:**

```
line 175: r1 = "https://diia.app/app-session/";
```

https:// with value https://diia.app/documents/ in following files:

- **e/a/a/a/a/h/d.java:**

```
line 14: public static final e i = new  
e("^(https://diia.app/documents/|https://diia.app/acquirers/offer-  
request/|https://diia.app/acquirers/branch/offer/offer-request/).*");
```

- **e/a/a/a/a/h/f.java:**

```
line 41: str = "https://diia.app/documents/";
```

https:// with value https://diia.app/acquirers/offer-request/ in following files:

- **e/a/a/a/a/h/f.java:**

```
line 52: } else if (p.f0.h.G(str2, "https://diia.app/acquirers/offer-
request/", false, 2) || p.f0.h.G(str2,
"https://diia.app/acquirers/branch/offer/offer-request/", false, 2)) {
```

https:// with value <https://diia.gov.ua/> in following files:

- [e/a/a/a/a/a/a0/a.java](#):

```
line 22: string = "https://diia.gov.ua/";
```

https:// with value <https://diia-test.tranzzo.com> in following files:

- [e/b/a/b/a.java](#):

```
line 63: bVar2.a(w.a.a.a.a == e.b.a.d.c.TEST ? "https://diia-
test.tranzzo.com" : "https://diia.tranzzo.com");
```

hms:// with value hms://redirect_url in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 77: public static final String HMS_REDIRECT_URI = "hms://redirect_url";
```

hwid:// with value <hwid://com.huawei.hwid/loginbypassword> in following files:

- [com/huawei/hms/support/api/entity/common/CommonConstant.java](#):

```
line 102: public static final String LOGIN_BY_PASSWORD =
"hwid://com.huawei.hwid/loginbypassword";
```

http:// with value <http://localhost> in following files:

- [com/huawei/agconnect/credential/Server.java](#):

```
line 3: public static final String GW = "http://localhost";
```

http:// with value <http://localhost/agc/apigw/oauth2/v1/token> in following files:

- [com/huawei/agconnect/credential/obs/q.java](#):

```
line 10: private static final String REQUEST_URL =
"http://localhost/agc/apigw/oauth2/v1/token";
```

CVSSv3 Base Score:

3.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N)

[INFORMATION EXPOSURE \[M2\]](#) [\[CWE-200\]](#) [\[SAST\]](#)

LOW

Description:

The mobile application contains hardcoded URLs that may be from development, staging or preproduction hosts or APIs. Attackers can potentially increase the external attack surface with this information.

https:// with value <https://diia-test.tranzzo.com> in following files:

- [e/b/a/b/a.java](#):

```
line 63: bVar2.a(w.a.a.a.a == e.b.a.d.c.TEST ? "https://diia-  
test.tranzzo.com" : "https://diia.tranzzo.com");
```

CVSSv3 Base Score:

3.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N)

MISSING TAPJACKING PROTECTION [M1] [CWE-451] [SAST]

LOW

Description:

The mobile application does not have a tapjacking protection required to mitigate tapjacking attacks.

By default, Android OS permits a mobile application to display its user interface over the user interface of another application installed and run on the device. When user touches the screen, application may pass the touch event to another application below its user interface layer that the user does not see, serving like a proxy to pass unintended touch activities. This attack is quite similar to clickjacking but for mobile devices. In order to be successfully exploited, a malicious application shall be already installed on the mobile phone of the victim. An example of exploitation would be a malware app that tricks user to unwittingly tap on a payment button (or any other functionality) of a sensitive application when playing a game or doing other innocent activity in the malicious application screen.

Example of secure code:

```
public class MyActivity extends Activity {
    protected void onCreate(Bundle bundle) {
        super.onCreate(bundle);

        final Button myButton = (Button)findViewById(R.id.button_id);
        myButton.setFilterTouchesWhenObscured(true);

        myButton.setOnClickListener(new View.OnClickListener() {
            // Perform action on click
        })
    }
}

<Button
    android:layout_height="wrap_content"
    android:layout_width="wrap_content"
    android:text="@string/self_destruct"
    android:onClick="selfDestruct"
    android:filterTouchesWhenObscured="true" />
```

Details:

There is **android:filterTouchesWhenObscured="true"** missing in files:

- [android/res/layout-v22/layout_doc_foreign_passport.xml](#)
- [android/res/layout-v22/fragment_vaccination_place.xml](#)
- [android/res/layout-v22/dialog_system.xml](#)
- [android/res/layout-v22/view_document_card.xml](#)
- [android/res/layout-v22/item_penalty_more.xml](#)
- [android/res/layout-v22/item_bank_account.xml](#)
- [android/res/layout-v22/layout_doc_insurance_policy.xml](#)
- [android/res/layout-v22/mtrl_alert_dialog_actions.xml](#)
- [android/res/layout-v22/layout_debts_list.xml](#)
- [android/res/layout-v22/fragment_notification_full.xml](#)
- [android/res/layout-v22/item_penalty_short.xml](#)
- [android/res/layout-v22/item_check_doc_error.xml](#)
- [android/res/layout-v22/item_administrative_fee_history.xml](#)

- android/res/layout-v22/fragment_fop_report_details.xml
- android/res/layout-v22/abc_alert_dialog_button_bar_material.xml
- android/res/layout-v22/fragment_vaccination_mass_ticket.xml
- android/res/layout-v22/item_fop_payment.xml
- android/res/layout-v22/fragment_vaccination_mass_point_select.xml
- android/res/layout-v22/fragment_change_registration_verification.xml
- android/res/layout-v22/layout_fop_taxes_view_pager.xml
- android/res/layout-v22/fragment_preview.xml
- android/res/layout-v22/item_payment_card.xml
- android/res/layout-v22/item_rv_search.xml
- android/res/layout-v22/layout_doc_alert.xml
- android/res/layout-v22/fragment_vaccination_enlist_address.xml
- android/res/layout-v22/bottom_support_messangers_sheet.xml
- android/res/layout-v22/fragment_facereco.xml
- android/res/layout-v22/fragment_bank_id.xml
- android/res/layout-v22/dialog_info_assist.xml
- android/res/layout-v22/layout_penalties_list.xml
- android/res/layout-v22/fragment_assist_iban.xml
- android/res/layout-v22/fragment_fop_details.xml
- android/res/layout-v22/item_petition.xml
- android/res/layout-v22/layout_acquirer_service_administrative_fee.xml
- android/res/layout-v22/layout_doc_student_card.xml
- android/res/layout-v22/fragment_diia_id_certificate.xml
- android/res/layout-v22/fragment_faq.xml
- android/res/layout-v22/fragment_login_step4.xml
- android/res/layout-v22/view_progress_button.xml
- android/res/layout-v22/fragment_vaccination_group.xml
- android/res/layout-v22/fragment_nfc_scan_instruction.xml
- android/res/layout-v22/layout_fop_settlement_list.xml
- android/res/layout-v22/fragment_change_registration_military_info.xml
- android/res/layout-v22/fragment_fop_new_declaration_period.xml
- android/res/layout-v22/fragment_pages_faq.xml
- android/res/layout-v22/fragment_petition_search.xml
- android/res/layout-v22/fragment_petitions_home.xml
- android/res/layout-v22/dialog_user_add_doc.xml
- android/res/layout-v22/fragment_change_registration_request_social.xml
- android/res/layout-v22/layout_doc_birth_certificate.xml
- android/res/layout-v22/fragment_change_registration_female_military_info.xml
- android/res/layout-v22/material_timepicker_dialog.xml
- android/res/layout-v22/item_debt_short.xml
- android/res/layout-v22/fragment_card_input.xml
- android/res/layout-v22/fragment_vaccination_search.xml
- android/res/layout-v22/fragment_fop_new_declaration_calc.xml
- android/res/layout-v22/item_petition_simplified.xml
- android/res/layout-v22/item_debt_more.xml
- android/res/layout-v22/fragment_dl_replace_reason.xml
- android/res/layout-v22/layout_doc_internally_displaced_cert_alert.xml
- android/res/layout-v22/fragment_penalty_details.xml
- android/res/layout-v22/fragment_home.xml
- android/res/layout-v22/layout_doc_internally_displaced_cert.xml
- android/res/layout-v22/dialog_activity_view.xml
- android/res/layout-v22/fragment_login_auth_type_selection.xml
- android/res/layout-v22/item_time_slot.xml
- android/res/layout-v22/dialog_dynamic.xml
- android/res/layout-v22/fragment_administrative_fee_history.xml
- android/res/layout-v22/fragment_auth_method_selection.xml
- android/res/layout-v22/fragment_vaccination_enlist_phone_number_approve.xml
- android/res/layout-v22/fragment_change_registration_request_qr.xml

- android/res/layout-v22/fragment_settings.xml
- android/res/layout-v22/fragment_payment_receipt.xml
- android/res/layout-v22/fragment_change_registration_home.xml
- android/res/layout-v22/alert_flow_with_alternative_centered.xml
- android/res/layout-v22/item_mini_doc_image_back.xml
- android/res/layout-v22/layout_payment_details.xml
- android/res/layout-v22/fragment_change_registration_old_address.xml
- android/res/layout-v22/view_faq_item.xml
- android/res/layout-v22/item_menu_divider.xml
- android/res/layout-v22/fragment_doc_stack_order.xml
- android/res/layout-v22/fragment_app_session_details.xml
- android/res/layout-v22/alert_flow_with_alternative.xml
- android/res/layout-v22/fragment_fop_payment_details.xml
- android/res/layout-v22/item_debt_card.xml
- android/res/layout-v22/fragment_petition_details.xml
- android/res/layout-v22/dialog_choose_card.xml
- android/res/layout-v22/fragment_session_history_details.xml
- android/res/layout-v22/fragment_petition_create_desc.xml
- android/res/layout-v22/fragment_petition_create_theme.xml
- android/res/layout-v22/layout_pay_item_view_pager.xml
- android/res/layout-v22/fragment_mzr_scanner.xml
- android/res/layout-v22/fragment_diia_id_biometric_set_up.xml
- android/res/layout-v22/alert_flow_centered.xml
- android/res/layout-v22/layout_qr_registry_error.xml
- android/res/layout-v22/item_document_to_add_close.xml
- android/res/layout-v22/fragment_assist.xml
- android/res/layout-v22/fragment_fop_taxes.xml
- android/res/layout-v22/layout_doc_rnokpp_alert.xml
- android/res/layout-v22/item_session_history.xml
- android/res/layout-v22/dialog_fragment_nfc_scan.xml
- android/res/layout-v22/fragment_change_registration_status.xml
- android/res/layout-v22/fragment_mrz_instruction.xml
- android/res/layout-v22/fragment_vaccination_home.xml
- android/res/layout-v22/fragment_fop_taxes_list.xml
- android/res/layout-v22/view_diia_no_network.xml
- android/res/layout-v22/item_session_history_doc.xml
- android/res/layout-v22/fragment_vaccination_mass_point_time_slot.xml
- android/res/layout-v22/fragment_fop_reports_payments.xml
- android/res/layout-v22/item_faq.xml
- android/res/layout-v22/item_change_registration_application.xml
- android/res/layout-v22/dialog_error.xml
- android/res/layout-v22/item_petition_subscriber.xml
- android/res/layout-v22/item_diia_id_sign.xml
- android/res/layout-v22/view_pin_code.xml
- android/res/layout-v22/dialog_payment_successful.xml
- android/res/layout-v22/fragment_fop_user_info.xml
- android/res/layout-v22/item_rv_search_two_lines.xml
- android/res/layout-v22/layout_doc_id_card.xml
- android/res/layout-v22/fragment_assists_list.xml
- android/res/layout-v22/item_fop_tax_card.xml
- android/res/layout-v22/fragment_vaccination_enlist_phone_number.xml
- android/res/layout-v22/fragment_dl_replace_status.xml
- android/res/layout-v22/item_penalty_card.xml
- android/res/layout-v22/fragment_debts_details.xml
- android/res/layout-v22/fragment_help_finish.xml
- android/res/layout-v22/fragment_doc_stack.xml
- android/res/layout-v22/fragment_assist_place.xml
- android/res/layout-v22/fragment_fop_formed_declaration.xml

- android/res/layout-v22/fragment_vaccination.xml
- android/res/layout-v22/item_payment_method.xml
- android/res/layout-v22/fragment_debts_unpaid_list.xml
- android/res/layout-v22/alert_flow_left.xml
- android/res/layout-v22/fragment_fop_calc_short_flow.xml
- android/res/layout-v22/fragment_change_registration_new_address.xml
- android/res/layout-v22/item_fop_tax.xml
- android/res/layout-v22/fragment_fop_tax_details.xml
- android/res/layout-v22/dialog_payment_type.xml
- android/res/layout-v22/fragment_bank.xml
- android/res/layout-v22/fragment_login_input.xml
- android/res/layout-v22/item_fop_report.xml
- android/res/layout-v22/layout_qr_success.xml
- android/res/layout-v22/fragment_fop.xml
- android/res/layout-v22/fragment_alert_details.xml
- android/res/layout-v22/item_service_type.xml
- android/res/layout-land/material_clock_period_toggle_land.xml
- android/res/layout-land/mtrl_picker_header_dialog.xml
- android/res/layout-land/material_timepicker.xml
- android/res/layout-watch-v20/abc_alert_dialog_button_bar_material.xml
- android/res/layout-watch-v20/abc_alert_dialog_title_material.xml
- android/res/layout/hms_download_progress.xml
- android/res/layout/item_receipt.xml
- android/res/layout/layout_doc_foreign_passport.xml
- android/res/layout/text_view_with_theme_line_height.xml
- android/res/layout/fragment_vaccination_place.xml
- android/res/layout/fragment_internally_displaced.xml
- android/res/layout/mtrl_picker_text_input_date.xml
- android/res/layout/dialog_system.xml
- android/res/layout/fragment_penalties.xml
- android/res/layout/view_document_card.xml
- android/res/layout/item_penalty_more.xml
- android/res/layout/item_docs_error.xml
- android/res/layout/item_bank_account.xml
- android/res/layout/layout_doc_insurance_policy.xml
- android/res/layout/mtrl_alert_dialog_actions.xml
- android/res/layout/abc_list_menu_item_checkbox.xml
- android/res/layout/view_diaa_document_barcode.xml
- android/res/layout/fragment_test_in.xml
- android/res/layout/view_content_list_indefinite.xml
- android/res/layout/fragment_error.xml
- android/res/layout/item_app_session.xml
- android/res/layout/design_layout_snackbar_include.xml
- android/res/layout/fragment_miss_driver_license.xml
- android/res/layout/layout_debts_list.xml
- android/res/layout/fragment_login_step2.xml
- android/res/layout/fragment_notification_full.xml
- android/res/layout/upsdk_app_dl_progress_dialog.xml
- android/res/layout/design_text_input_start_icon.xml
- android/res/layout/item_penalty_short.xml
- android/res/layout/material_clock_period_toggle.xml
- android/res/layout/item_petition_photo.xml
- android/res/layout/item_check_doc_error.xml
- android/res/layout/item_gallery_photo.xml
- android/res/layout/item_help.xml
- android/res/layout/item_administrative_fee_history.xml
- android/res/layout/item_boarding_item_bullet.xml
- android/res/layout/fragment_fop_report_details.xml

- android/res/layout/abc_alert_dialog_button_bar_material.xml
- android/res/layout/fragment_vaccination_mass_ticket.xml
- android/res/layout/mtrl_picker_header_fullscreen.xml
- android/res/layout/item_fop_payment.xml
- android/res/layout/fragment_vaccination_mass_point_select.xml
- android/res/layout/fragment_error_rooted.xml
- android/res/layout/fragment_change_registration_verification.xml
- android/res/layout/fragment_services.xml
- android/res/layout/abc_activity_chooser_view_list_item.xml
- android/res/layout/layout_fop_taxes_view_pager.xml
- android/res/layout/fragment_preview.xml
- android/res/layout/notification_template_big_media.xml
- android/res/layout/item_payment_card.xml
- android/res/layout/text_view_with_line_height_from_layout.xml
- android/res/layout/design_layout_tab_icon.xml
- android/res/layout/fragment_login_step3.xml
- android/res/layout/item_rv_search.xml
- android/res/layout/item_check_student_card.xml
- android/res/layout/layout_doc_alert.xml
- android/res/layout/fragment_vaccination_enlist_address.xml
- android/res/layout/tsnackbar_layout_include.xml
- android/res/layout/abc_screen_content_include.xml
- android/res/layout/item_dii_id_sign_document.xml
- android/res/layout/mtrl_picker_dialog.xml
- android/res/layout/bottom_support_messengers_sheet.xml
- android/res/layout/fragment_app_session_history.xml
- android/res/layout/abc_activity_chooser_view.xml
- android/res/layout/item_doc_vehicle_license.xml
- android/res/layout/fragment_dl_replace_applicants_medicine_certificate.xml
- android/res/layout/fragment_pdf.xml
- android/res/layout/fragment_facereco.xml
- android/res/layout/abc_select_dialog_material.xml
- android/res/layout/fragment_bank_id.xml
- android/res/layout/fragment_compound_address_search.xml
- android/res/layout/dialog_info_assist.xml
- android/res/layout/layout_penalties_list.xml
- android/res/layout/fragment_assist_iban.xml
- android/res/layout/test_toolbar_elevation.xml
- android/res/layout/fragment_fop_details.xml
- android/res/layout/abc_action_bar_title_item.xml
- android/res/layout/mtrl_calendar_year.xml
- android/res/layout/mtrl_alert_dialog_title.xml
- android/res/layout/view_marked_text_item.xml
- android/res/layout/test_toolbar.xml
- android/res/layout/item_petition.xml
- android/res/layout/layout_acquirer_service_administrative_fee.xml
- android/res/layout/layout_doc_student_card.xml
- android/res/layout/view_line_item_horizontal.xml
- android/res/layout/fragment_dii_id_certificate.xml
- android/res/layout/fragment_faq.xml
- android/res/layout/item_context_menu_field.xml
- android/res/layout/fragment_login_step4.xml
- android/res/layout/view_progress_button.xml
- android/res/layout/item_menu_selectable.xml
- android/res/layout/fragment_id_card.xml
- android/res/layout/abc_screen_toolbar.xml
- android/res/layout/item_page_faq.xml
- android/res/layout/bt_expiration_date_sheet.xml

- android/res/layout/fragment_vaccination_group.xml
- android/res/layout/fragment_nfc_scan_instruction.xml
- android/res/layout/text_view_with_line_height_from_appearance.xml
- android/res/layout/item_selectable_with_icon.xml
- android/res/layout/material_timepicker_textinput_display.xml
- android/res/layout/fragment_dl_replace_applicants_registration.xml
- android/res/layout/fragment_nfc_help.xml
- android/res/layout/fragment_diia_id_pin_set_up.xml
- android/res/layout/material_time_input.xml
- android/res/layout/abc_dialog_title_material.xml
- android/res/layout/mtrl_picker_header_dialog.xml
- android/res/layout/abc_search_view.xml
- android/res/layout/layout_fop_settlement_list.xml
- android/res/layout/abc_search_dropdown_item_icons_2line.xml
- android/res/layout/fragment_progress_dialog.xml
- android/res/layout/abc_action_menu_item_layout.xml
- android/res/layout/layout_acquirer_service_default.xml
- android/res/layout/bt_expiration_date_item.xml
- android/res/layout/item_radio_button.xml
- android/res/layout/design_bottom_sheet_dialog.xml
- android/res/layout/fragment_change_registration_military_info.xml
- android/res/layout/fragment_fop_new_declaration_period.xml
- android/res/layout/fragment_pages_faq.xml
- android/res/layout/fragment_petition_search.xml
- android/res/layout/cameraview_texture_view.xml
- android/res/layout/fragment_petitions_home.xml
- android/res/layout/material_chip_input_combo.xml
- android/res/layout/material_clock_display.xml
- android/res/layout/mtrl_calendar_months.xml
- android/res/layout/dialog_user_add_doc.xml
- android/res/layout/fragment_change_registration_request_social.xml
- android/res/layout/design_bottom_navigation_item.xml
- android/res/layout/abc_action_bar_up_container.xml
- android/res/layout/notification_template_icon_group.xml
- android/res/layout/layout_doc_birth_certificate.xml
- android/res/layout/item_loading_doc.xml
- android/res/layout/item_petition_answer.xml
- android/res/layout/abc_list_menu_item_layout.xml
- android/res/layout/item_bank.xml
- android/res/layout/fragment_change_registration_female_military_info.xml
- android/res/layout/design_text_input_end_icon.xml
- android/res/layout/material_timepicker_dialog.xml
- android/res/layout/fragment_dialog_full_doc_menu.xml
- android/res/layout/item_debt_short.xml
- android/res/layout/fragment_card_input.xml
- android/res/layout/fragment_vaccination_search.xml
- android/res/layout/fragment_fop_new_declaration_calc.xml
- android/res/layout/item_petition_simplified.xml
- android/res/layout/item_payment_detail.xml
- android/res/layout/layout_home_content_loading.xml
- android/res/layout/design_navigation_item_separator.xml
- android/res/layout/fragment_diia_id_history.xml
- android/res/layout/mtrl_calendar_day_of_week.xml
- android/res/layout/material_clockface_textview.xml
- android/res/layout/item_check_rnokpp.xml
- android/res/layout/mtrl_picker_header_toggle.xml
- android/res/layout/fragment_administrative_fee_history_details.xml
- android/res/layout/fragment_foreign_passport.xml

- android/res/layout/fragment_dl_replace_service_center.xml
- android/res/layout/item_menu_version.xml
- android/res/layout/mtrl_calendar_month_navigation.xml
- android/res/layout/view_line_item_vertical.xml
- android/res/layout/item_debt_more.xml
- android/res/layout/layout_doc_driver_license.xml
- android/res/layout/layout_pay_item_no_content.xml
- android/res/layout/test_reflow_chipgroup.xml
- android/res/layout/notification_media_cancel_action.xml
- android/res/layout/fragment_dl_replace_reason.xml
- android/res/layout/fragment_diia_id_history_details.xml
- android/res/layout/material_radial_view_group.xml
- android/res/layout/fragment_web.xml
- android/res/layout/fragment_app_sessions.xml
- android/res/layout/layout_doc_internally_displaced_cert_alert.xml
- android/res/layout/mtrl_calendar_month.xml
- android/res/layout/layout_doc_driver_license_alert.xml
- android/res/layout/fragment_bank_sync.xml
- android/res/layout/view_button_with_progress.xml
- android/res/layout/notification_action_tombstone.xml
- android/res/layout/fragment_penalty_details.xml
- android/res/layout/fragment_home.xml
- android/res/layout/item_required_doc.xml
- android/res/layout/view_doc_action_button.xml
- android/res/layout/view_bullet.xml
- android/res/layout/layout_doc_internally_displaced_cert.xml
- android/res/layout/fragment_vehicle_insurance.xml
- android/res/layout/abc_action_menu_layout.xml
- android/res/layout/dialog_activity_view.xml
- android/res/layout/layout_qr_error.xml
- android/res/layout/view_progress_titled.xml
- android/res/layout/notification_template_part_time.xml
- android/res/layout/layout_fop_info.xml
- android/res/layout/fragment_splash.xml
- android/res/layout/fragment_search_bullets.xml
- android/res/layout/notification_action.xml
- android/res/layout/fragment_debts_archive_list.xml
- android/res/layout/fragment_login_auth_type_selection.xml
- android/res/layout/item_time_slot.xml
- android/res/layout/fragment_diia_id.xml
- android/res/layout/item_check_id_card.xml
- android/res/layout/input_method_extract_view.xml
- android/res/layout/view_diia_progress.xml
- android/res/layout/fragment_dl_replace_select_blood_group.xml
- android/res/layout/dialog_dynamic.xml
- android/res/layout/abc_list_menu_item_radio.xml
- android/res/layout/mtrl_layout_snackbar_include.xml
- android/res/layout/activity_endisable_service.xml
- android/res/layout/item_doc_rnokpp.xml
- android/res/layout/custom_dialog.xml
- android/res/layout/fragment_administrative_fee_history.xml
- android/res/layout/mtrl_calendar_horizontal.xml
- android/res/layout/layout_doc_rnokpp.xml
- android/res/layout/fragment_auth_method_selection.xml
- android/res/layout/view_item_info_action.xml
- android/res/layout/item_pdf_page.xml
- android/res/layout/fragment_vaccination_enlist_phone_number_approve.xml
- android/res/layout/fragment_change_registration_send_request.xml

- android/res/layout/fragment_change_registration_request_qr.xml
- android/res/layout/view_attention_message.xml
- android/res/layout/material_clock_display_divider.xml
- android/res/layout/fragment_settings.xml
- android/res/layout/fragment_payment_receipt.xml
- android/res/layout/mtrl_alert_select_dialog_multichoice.xml
- android/res/layout/fragment_change_registration_home.xml
- android/res/layout/alert_flow_with_alternative_centered.xml
- android/res/layout/item_doc_birth_certificate.xml
- android/res/layout/item_mini_doc_image_back.xml
- android/res/layout/test_toolbar_custom_background.xml
- android/res/layout/abc_screen_simple_overlay_action_mode.xml
- android/res/layout/wallet_test_layout.xml
- android/res/layout/mtrl_calendar_vertical.xml
- android/res/layout/layout_payment_details.xml
- android/res/layout/fragment_penalties_unpaid_list.xml
- android/res/layout/item_doc_driver_license.xml
- android/res/layout/fragment_change_registration_old_address.xml
- android/res/layout/view_faq_item.xml
- android/res/layout/abc_popup_menu_item_layout.xml
- android/res/layout/item_menu_divider.xml
- android/res/layout/fragment_doc_stack_order.xml
- android/res/layout/item_card_qr.xml
- android/res/layout/view_diiia_btn.xml
- android/res/layout/fragment_why.xml
- android/res/layout/layout_taxpayer_info.xml
- android/res/layout/mtrl_picker_header_title_text.xml
- android/res/layout/mtrl_picker_fullscreen.xml
- android/res/layout/item_check_birth_cert.xml
- android/res/layout/design_menu_item_action_area.xml
- android/res/layout/select_dialog_singlechoice_material.xml
- android/res/layout/fragment_address_search.xml
- android/res/layout/fragment_app_session_details.xml
- android/res/layout/alert_flow_with_alternative.xml
- android/res/layout/item_boarding_screen_list.xml
- android/res/layout/fragment_fop_payment_details.xml
- android/res/layout/item_debt_card.xml
- android/res/layout/fragment_petition_details.xml
- android/res/layout/cameraview_surface_view.xml
- android/res/layout/browser_actions_context_menu_page.xml
- android/res/layout/dialog_choose_card.xml
- android/res/layout/select_dialog_item_material.xml
- android/res/layout/fragment_session_history_details.xml
- android/res/layout/fragment_petition_create_desc.xml
- android/res/layout/fragment_petition_create_theme.xml
- android/res/layout/layout_pay_item_view_pager.xml
- android/res/layout/item_boarding_screen_text_only.xml
- android/res/layout/fragment_mzr_scanner.xml
- android/res/layout/browser_actions_context_menu_row.xml
- android/res/layout/widget_search.xml
- android/res/layout/fragment_diiia_id_biometric_set_up.xml
- android/res/layout/design_navigation_menu.xml
- android/res/layout/alert_flow_centered.xml
- android/res/layout/layout_qr_registry_error.xml
- android/res/layout/fragment_search.xml
- android/res/layout/mtrl_picker_header_selection_text.xml
- android/res/layout/fragment_driver_license.xml
- android/res/layout/item_document_to_add_close.xml

- android/res/layout/fragment_diia_id_cert_authorization.xml
- android/res/layout/item_boarding_screen.xml
- android/res/layout/item_boarding_screen_image.xml
- android/res/layout/test_action_chip.xml
- android/res/layout/test_chip_zero_corner_radius.xml
- android/res/layout/layout_doc_vehicle_license.xml
- android/res/layout/item_required_doc_multiple_item.xml
- android/res/layout/fragment_assist.xml
- android/res/layout/fragment_fop_taxes.xml
- android/res/layout/material_timepicker.xml
- android/res/layout/item_doc_id_card.xml
- android/res/layout/support_simple_spinner_dropdown_item.xml
- android/res/layout/fragment_change_registration_request.xml
- android/res/layout/layout_doc_rnokpp_alert.xml
- android/res/layout/notification_media_action.xml
- android/res/layout/fragment_menu.xml
- android/res/layout/item_session_history.xml
- android/res/layout/tsnackbar_layout.xml
- android/res/layout/material_time_chip.xml
- android/res/layout/item_assist_list.xml
- android/res/layout/notification_template_media.xml
- android/res/layout/fragment_birth_certificate.xml
- android/res/layout/view_content_list.xml
- android/res/layout/abc_alert_dialog_material.xml
- android/res/layout/mtrl_alert_select_dialog_item.xml
- android/res/layout/widget_progress_stepped.xml
- android/res/layout/dialog_fragment_nfc_scan.xml
- android/res/layout/fragment_change_registration_status.xml
- android/res/layout/fragment_mrz_instruction.xml
- android/res/layout/fragment_error_app_outdated.xml
- android/res/layout/card_view.xml
- android/res/layout/item_check_foreign_passport.xml
- android/res/layout/item_doc_student_card.xml
- android/res/layout/item_notification.xml
- android/res/layout/design_navigation_item.xml
- android/res/layout/item_doc_internally_displaced_cert.xml
- android/res/layout/abc_tooltip.xml
- android/res/layout/fragment_petition_similar.xml
- android/res/layout/abc_action_mode_bar.xml
- android/res/layout/fragment_vaccination_home.xml
- android/res/layout/layout_bankid_error.xml
- android/res/layout/fragment_fop_taxes_list.xml
- android/res/layout/item_check_insurance_policy.xml
- android/res/layout/item_check_internally_displaced.xml
- android/res/layout/activity_tranzzo_payment.xml
- android/res/layout/item_check_driver_license.xml
- android/res/layout/view_diia_app_bar.xml
- android/res/layout/design_navigation_item_header.xml
- android/res/layout/view_input_field.xml
- android/res/layout/test_design_checkbox.xml
- android/res/layout/mtrl_picker_text_input_date_range.xml
- android/res/layout/notification_template_lines_media.xml
- android/res/layout/view_diia_no_network.xml
- android/res/layout/test_design_radiobutton.xml
- android/res/layout/item_session_history_doc.xml
- android/res/layout/fragment_vaccination_mass_point_time_slot.xml
- android/res/layout/fragment_check_docs.xml
- android/res/layout/fragment_intro_base.xml

- android/res/layout/fragment_error_auth.xml
- android/res/layout/fragment_fop_reports_payments.xml
- android/res/layout/fragment_qr_scanner.xml
- android/res/layout/design_layout_snackbar.xml
- android/res/layout/view_status_message.xml
- android/res/layout/notification_template_big_media_narrow_custom.xml
- android/res/layout/item_faq.xml
- android/res/layout/mtrl_calendar_month_labeled.xml
- android/res/layout/fragment_petition_details_subs.xml
- android/res/layout/layout_administrative_fee_details.xml
- android/res/layout/item_change_registration_application.xml
- android/res/layout/dialog_error.xml
- android/res/layout/abc_action_mode_close_item_material.xml
- android/res/layout/item_petition_subscriber.xml
- android/res/layout/fragment_debts.xml
- android/res/layout/dialog_acquirer_service.xml
- android/res/layout/item_doc_foreign_passport.xml
- android/res/layout/item_diia_id_sign.xml
- android/res/layout/widget_card_notifiable_field.xml
- android/res/layout/test_toolbar_surface.xml
- android/res/layout/design_navigation_item_subheader.xml
- android/res/layout/view_pin_code.xml
- android/res/layout/abc_list_menu_item_icon.xml
- android/res/layout/dialog_payment_successful.xml
- android/res/layout/fragment_vehicle_license.xml
- android/res/layout/fragment_dl_replace_details.xml
- android/res/layout/fragment_notifications_list.xml
- android/res/layout/item_required_doc_multiple.xml
- android/res/layout/fragment_fop_user_info.xml
- android/res/layout/item_rv_search_two_lines.xml
- android/res/layout/fragment_help_base.xml
- android/res/layout/layout_doc_id_card.xml
- android/res/layout/fragment_assists_list.xml
- android/res/layout/dialog_context_menu.xml
- android/res/layout/item_doc_action.xml
- android/res/layout/view_diia_menu_icon.xml
- android/res/layout/cameraview_layout_focus_marker.xml
- android/res/layout/layout_notifications_empty.xml
- android/res/layout/item_login_app.xml
- android/res/layout/item_fop_tax_card.xml
- android/res/layout/fragment_penalties_archive_list.xml
- android/res/layout/fragment_vaccination_enlist_phone_number.xml
- android/res/layout/fragment_dl_replace_status.xml
- android/res/layout/fragment_change_registration_welcome.xml
- android/res/layout/material_textinput_timepicker.xml
- android/res/layout/item_penalty_card.xml
- android/res/layout/abc_expanded_menu_layout.xml
- android/res/layout/item_petition_photo_details.xml
- android/res/layout/notification_template_media_custom.xml
- android/res/layout/abc_cascading_menu_item_layout.xml
- android/res/layout/fragment_debts_details.xml
- android/res/layout/bt_card_form_fields.xml
- android/res/layout/cameraview_gl_view.xml
- android/res/layout/fragment_help_finish.xml
- android/res/layout/item_menu_notifiable.xml
- android/res/layout/layout_doc_error.xml
- android/res/layout/fragment_doc_stack.xml
- android/res/layout/wocr_fragment_scan_card.xml

- android/res/layout/layout_qr.xml
- android/res/layout/fragment_assist_place.xml
- android/res/layout/fragment_fop_formed_declaration.xml
- android/res/layout/mtrl_calendar_days_of_week.xml
- android/res/layout/text_view_without_line_height.xml
- android/res/layout/item_penalty_photo.xml
- android/res/layout/material_clockface_view.xml
- android/res/layout/mtrl_calendar_day.xml
- android/res/layout/fragment_vaccination.xml
- android/res/layout/item_payment_method.xml
- android/res/layout/fragment_pin_code_changed.xml
- android/res/layout/view_placeholder_message.xml
- android/res/layout/fragment_debts_unpaid_list.xml
- android/res/layout/view_label.xml
- android/res/layout/fragment_fop_declarations_archive.xml
- android/res/layout/fragment_pin_fail_d.xml
- android/res/layout/widget_change_registration_tabs.xml
- android/res/layout/alert_flow_left.xml
- android/res/layout/fragment_photo_gallery.xml
- android/res/layout/mtrl_layout_snackbar.xml
- android/res/layout/fragment_fop_calc_short_flow.xml
- android/res/layout/fragment_change_registration_new_address.xml
- android/res/layout/design_navigation_menu_item.xml
- android/res/layout/fragment_welcome.xml
- android/res/layout/notification_template_custom_big.xml
- android/res/layout/text_view_with_line_height_from_style.xml
- android/res/layout/upsdk_ota_update_view.xml
- android/res/layout/toast.xml
- android/res/layout/item_fop_tax.xml
- android/res/layout/fingerprint_dialog_layout.xml
- android/res/layout/mtrl_alert_select_dialog_singlechoice.xml
- android/res/layout/wocr_include_card_detection_layout.xml
- android/res/layout/fragment_student_ticket.xml
- android/res/layout/activity_web_view.xml
- android/res/layout/abc_popup_menu_header_item_layout.xml
- android/res/layout/abc_alert_dialog_title_material.xml
- android/res/layout/fragment_fop_tax_details.xml
- android/res/layout/dialog_payment_type.xml
- android/res/layout/notification_template_big_media_custom.xml
- android/res/layout/notification_template_big_media_narrow.xml
- android/res/layout/fragment_bank.xml
- android/res/layout/fragment_login_input.xml
- android/res/layout/fragment_petition_contacts.xml
- android/res/layout/fragment_error_clone.xml
- android/res/layout/item_check_vehicle_license.xml
- android/res/layout/notification_template_part_chronometer.xml
- android/res/layout/fragment_dl_replace_aplicants_contacts.xml
- android/res/layout/item_fop_report.xml
- android/res/layout/mtrl_alert_dialog.xml
- android/res/layout/mtrl_picker_actions.xml
- android/res/layout/layout_qr_success.xml
- android/res/layout/view_intro_header_full.xml
- android/res/layout/abc_screen_simple.xml
- android/res/layout/select_dialog_multichoice_material.xml
- android/res/layout/fragment_fop.xml
- android/res/layout/fragment_alert_details.xml
- android/res/layout/design_layout_tab_text.xml
- android/res/layout/item_service_type.xml

- [android/res/layout-ldrtl/material_textinput_timepicker.xml](#)
- [android/res/layout-sw600dp/design_layout_snackbar.xml](#)
- [android/res/layout-sw600dp/mtrl_layout_snackbar.xml](#)
- [android/res/layout-v26/abc_screen_toolbar.xml](#)
- [android/res/layout-v26/mtrl_calendar_month.xml](#)
- [android/res/layout-v21/test_toolbar_elevation.xml](#)
- [android/res/layout-v21/abc_screen_toolbar.xml](#)
- [android/res/layout-v21/notification_template_icon_group.xml](#)
- [android/res/layout-v21/notification_action_tombstone.xml](#)
- [android/res/layout-v21/notification_action.xml](#)
- [android/res/layout-v21/test_design_checkbox.xml](#)
- [android/res/layout-v21/test_design_radiobutton.xml](#)
- [android/res/layout-v21/notification_template_custom_big.xml](#)

There is '**extends RelativeLayout**' found in file '[ua/tranzzo/checkout_sdk/ui/web_view/CustomRelativeLayout.java](#)':

```

line 11: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000(\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\b\u0003\n
\u0002\u0010\u000b\n\u0002\b\u0003\n\u0002\u0018\u0002\n\u0002\b\u0005\n\u0002\u0010\t\n
\u0002\b\b\u0018\u0002\u0002\u0001J\u000f\u0010\u0003\u001a\u0002\u0002H\u0014
\u0006\u0004\b\u0003\u0010\u0004J\u000f\u0010\u0005\u001a\u0002\u0002H\u0014
\u0006\u0004\b\u0005\u0010\u0004R\u0016\u0010\t\u001a\u0002\u0002\u00068\u0002@\u0002X\u0000
e
\u0006\u0006\n\u0004\b\u0007\u0010\bR\u0016\u0010\r\u001a\u0002\u0002\u0008\u0002@\u0002X\u0000
4
\u0006\u0006\n\u0004\b\u000b\u0010\fR\u0016\u0010\u000f\u001a\u0002\u0002\u0008\u0002@\u0002X\u0000
4
\u0006\u0006\n\u0004\b\u000e\u0010\fR\u0016\u0010\u0013\u001a\u0002\u00108\u0002@\u0002X\u0000
e
\u0006\u0006\n\u0004\b\u0011\u0010\u0012R\u0016\u0010\u0015\u001a\u0002\u0002\u00068\u0002@\u0002X\u0000
e
\u0006\u0006\n\u0004\b\u0014\u0010\bR\u0016\u0010\u0017\u001a\u0002\u0002\u00068\u0002@\u0002X\u0000
e\u0006\u0006\n\u0004\b\u0016\u0010\b\u0006\u0018"}, d2 =
{"Lua/tranzzo/checkout_sdk/ui/web_view/CustomRelativeLayout;",
"android/widget/RelativeLayout;", "Lp/t;", "onAttachedToWindow", "()V",
"onDetachedFromWindow", "", "c", "Z", "mPostedShow", "Ljava/lang/Runnable;", "e",
"Ljava/lang/Runnable;", "mDelayedHide", "f", "mDelayedShow", "", "a", "J",
"mStartTime", "b", "mPostedHide", "d", "mDismissed", "checkout-sdk_release"}, k = 1, mv
= {1, 4, 2})
line 12: public final class CustomRelativeLayout extends RelativeLayout {
line 13:     public long a = -1;

```

There is '**extends RelativeLayout**' found in file '[com/huawei/hms/support/hwid/ui/HuaweiIdAuthButton.java](#)':

```

line 20:
line 21: public class HuaweiIdAuthButton extends RelativeLayout {
line 22:     public static final int COLOR_POLICY_BLACK = 4;

```

There is '**extends RelativeLayout**' found in file '[com/github/barteksc/pdfviewer/PDFView.java](#)':

```

line 23:
line 24: public class PDFView extends RelativeLayout {
line 25:     public float a = 1.0f;

```

There is 'extends **FrameLayout**' found in file '[ua/gov/diia/app/ui/views/DocumentActionButtonCV.java](#)':

```

line 18: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000.\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n\u0000\n\u0002\u0018
\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\n\u0002\b\u0003\n\u0002\u0018\u0002\n\u0002\b
\u0003\n\u0002\u0018\u0002\n\u0002\b\n\u0018\u0002\u0020\u0001J\u0015\u0010\u0005\u0
01a\u00020\u00042\u0006\u0010\u0003\u001a\u00020\u0002\u0006\u0004\b\u0005\u0010\u0006J\u0017\u0010\t\u001a\u00020\u00042\u0006\u0010\b\u001a
\u00020\u0007H\u0007\u0006\u0004\b\t\u0010\nR\u0016\u0010\u000e\u001a\u00020\u000b8\u0002@\u0002X\u0004\u0006\u0006\n\u0004\b\f\u0010\rR*\u0010\u0016\u001a\n\u0012\u0004\u0012\u00020\u0004\u0
018\u00010\u000f8\u0006@\u0006X\u000e\u0006\u0012\n\u0004\b\u0010\u0011\u001a\u0004\b\u0012\u0010\u0013\"\u0004\b\u001
4\u0010\u0015R\u0016\u0010\u0018\u001a\u00020\u000b8\u0002@\u0002X\u0004\u0006\u0006\n\u0004\b\u0017\u0010\r\u0006\u0019"}, d2 =
{"Lua/gov/diia/app/ui/views/DocumentActionButtonCV;", "Landroid/widget/FrameLayout;",
"", "stackDocSize", "Lp/t;", "setStackDocSize", "(I)V", "Le/a/a/a/b/b/n;",
"actionMode", "setActionMode", "(Le/a/a/a/b/b/n;)V", "Landroid/view/View;", "a",
"Landroid/view/View;", "ellipseActionView", "Lkotlin/Function0;", "c", "Lp/a0/b/a;",
"getOnEllipseClick", "()Lp/a0/b/a;", "setOnEllipseClick", "(Lp/a0/b/a;)V",
"onEllipseClick", "b", "stackActionView", "app_huaweiRelease"}, k = 1, mv = {1, 4, 2})
line 19: public final class DocumentActionButtonCV extends FrameLayout {
line 20:     public final View a;

```

There is 'extends **FrameLayout**' found in file '[ua/gov/diia/app/ui/views/DiiaNoNetworkCV.java](#)':

```

line 14: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000&\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\b\u0003\n
\u0002\u0010\u000b\n\u0000\n\u0002\u0010\u000e\n\u0002\b\u0003\n\u0002\u0018\u0002\n\u0
002\b\u0004\u0018\u0002\u0020\u0001J\r\u0010\u0003\u001a\u00020\u0002\u0006\u0004\b\u0003\u0010\u0004J\r\u0010\u0005\u001a\u00020\u0002\u0006\u0004\b\u0005\u0010\u0004J\u001f\u0010\n\u001a\u00020\u00022\u0006\u0010\u0007\u0
001a\u00020\u00062\u0006\u0010\t\u001a\u00020\bH\u0002\u0006\u0004\b\n\u0010\u000bR\u0019\u0010\t\u001a\u00020\f8\u0006@\u0006\u0006\u0006\f\n\u0004\b\n\u0010\r\u001a\u0004\b\u000e\u0010\u000f\u0006\u0010"}, d2 =
{"Lua/gov/diia/app/ui/views/DiiaNoNetworkCV;", "Landroid/widget/FrameLayout;", "Lp/t;",
"c", "()V", "b", "", "visible", "", "message", "a", "(Ljava/lang/String;)V",
"Landroid/widget/TextView;", "Landroid/widget/TextView;", "getMessage", "
()Landroid/widget/TextView;", "app_huaweiRelease"}, k = 1, mv = {1, 4, 2})
line 15: public final class DiiaNoNetworkCV extends FrameLayout {
line 16:     public final TextView a;

```

There is 'extends **FrameLayout**' found in file '[ua/gov/diia/app/ui/views/DocumentCardCV.java](#)':


```

line 17: @Metadata(bv = {1, 0, 3}, d1 =
{"\u000000\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n\u0002\b\u0002\n\u00
02\u0018\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\
n\u0002\b\u0004\n\u0002\u0010\u0007\n\u0002\b\u0007\u0018\u0002\u0020\u0001J\u001f\u0
010\u0006\u001a\u0002\u00052\u0006\u0010\u0003\u001a\u0002\u0022\u0006\u0010\u0004\u
001a\u0002\u002H\u0014\u
\u0006\u0004\b\u0006\u0010\u0007J+\u0010\r\u001a\u0002\u00052\b\u0010\t\u001a\u0004\u0
018\u00010\b2\u0006\u0010\n\u001a\u0002\u0022\b\u0010\f\u001a\u0004\u0018\u00010\u00
bH\u0016\u
\u0006\u0004\b\r\u0010\u000eJ\u0017\u0010\u0011\u001a\u0002\u00102\u0006\u0010\u000f\u
001a\u0002\u0020\u0002H\u0002\u
\u0006\u0004\b\u0011\u0010\u0012R\u0016\u0010\u0015\u001a\u0002\u00108\u0002@\u0002X\u
u000e\u
\u0006\u0006\n\u0004\b\u0013\u0010\u0014R\u0016\u0010\u0016\u001a\u0002\u00108\u0002@\u
u0002X\u
u000e\u0006\u0006\n\u0004\b\u0011\u0010\u0014"\u0006\u0017"}, d2 =
{"Lua/gov/dia/app/ui/views/ScalableLayoutView;", "Landroid/widget/FrameLayout;", "",
"widthMeasureSpec", "heightMeasureSpec", "Lp/t;", "onMeasure", "(II)V",
"Landroid/view/View;", "child", "index", "Landroid/view/ViewGroup$LayoutParams;",
"params", "addView", "(Landroid/view/View;ILandroid/view/ViewGroup$LayoutParams;)V",
"dp", "", "a", "(IF", "b", "F", "dpH", "dpW", "app_huaweiRelease"}, k = 1, mv = {1, 4,
2})
line 18: public final class ScalableLayoutView extends FrameLayout {
line 19:     public float a = a(312);

```

There is 'extends FrameLayout' found in file 'ua/gov/dia/app/ui/views/DiaMenuIconCV.java':

```

line 18: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000*\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\u000b\n\u0000\n\u0002\u0018\u0002\n\u0002\b\t\n\u0002\u0010\u000e\n\u0002\b\n\n\u0002\u0018\u0002\n\u0002\b\u000b\u0018\u0000\u0020\u0002\u0012\u0002\u0020\u0002J\u0015\u0010\u0006\u001a\u0002\u00052\u0006\u0010\u0004\u001a\u0002\u0020\u0003\u0006\u0004\b\u0006\u0010\u0007J\u000f\u0010\b\u001a\u0002\u0003H\u0016\u0006\u0004\b\b\u0010\tJ\u000f\u0010\n\u001a\u0002\u0005H\u0016\u0006\u0004\b\n\u0010\u000bJ\u0017\u0010\r\u001a\u0002\u00052\u0006\u0010\u0006\u0010\u0003H\u0016\u0006\u0004\b\r\u0010\u0007J\u000f\u0010\u000e\u001a\u0002\u0005H\u0002\u0006\u0004\b\u000e\u0010\u000bR\u0018\u0010\u0011\u001a\u0004\u0018\u0001\u000f8\u002@\u0002X\u000e\u0006\u0006\n\u0004\b\u000e\u0010\u0010R\u0016\u0010\b\u001a\u0002\u00038\u0002\u0002X\u000e\u0006\u0006\n\u0004\b\u0012\u0010\u0013R(\u0010\u0019\u001a\u0004\u0018\u0010\u000f2\b\u0010\u0014\u001a\u0004\u0018\u0001\u000f8F@FX\u000e\u0006\u0010\u001a\u0004\b\u0015\u0010\u0016\u0004\b\u0017\u0010\u0018R\u0018\u0010\u001d\u001a\u0004\u0018\u0001\u001a8\u0002\u0002X\u000e\u0006\u0006\n\u0004\b\u001b\u0010\u001cR(\u0010\u001a\u0004\u0018\u0010\u001a2\b\u0010\u0014\u001a\u0004\u0018\u0001\u001a8F@FX\u000e\u0006\u0010\u001e\u0010\u001f\u0004\b\u0010!R\u0018\u0010\u001a\u0004\u0018\u0010\u001a8\u0002\u0002X\u000e\u0006\u0006\n\u0004\b#\u0010\u001c\u0006%"}, d2 =
{"Lua/gov/diia/app/ui/views/DiiaMenuIconCV;", "Landroid/widget/FrameLayout;", "Landroid/widget/Checkable;", "", "badgeVisible", "Lp/t;", "setBadgeVisible", "(Z)V", "isChecked", "(Z)", "toggle", "()V", "checked", "setChecked", "a", "", "Ljava/lang/String;", "_label", "b", "Z", "value", "getLabel", "()Ljava/lang/String;", "setLabel", "(Ljava/lang/String;)V", "label", "Landroid/graphics/drawable/Drawable;", "c", "Landroid/graphics/drawable/Drawable;", "_icon", "getIcon", "()Landroid/graphics/drawable/Drawable;", "setIcon", "(Land[CUTTED]
line 19: public final class DiiaMenuIconCV extends FrameLayout implements Checkable {
line 20:     public String a;

```

There is 'extends FrameLayout' found in file 'ua/gov/diia/app/ui/views/DiiaAppBarCV.java':

```

line 17: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000.\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\u000e\n\u0000\n\u0002\u0018\u0002\n\u0002\b\u0002\n\u0002\u0010\u000b\n\u0002\b\u0003\n\u0002\u0018\u0002\n\u0002\b\u0007\n\u0002\u0018\u0002\n\u0002\b\u0004\u0018\u0000\u0020\u0001J\u0015\u0010\u0005\u001a\u0002\u00042\u0006\u0010\u0003\u001a\u0002\u0002\u0002\u0006\u0010\b\u001a\u0002\u00042\u0006\u0010\b\u001a\u0002\u0007\u0010\nR*\u0010\u0012\u001a\n\u0012\u0004\u0012\u0002\u0004\u0018\u0001\u000b8\u0006\u0006X\u000e\u0006\u0012\n\u0004\b\u0010\r\u001a\u0004\b\u000e\u0010\u000f\u0004\b\u0010\u0010\u0011R\u0016\u0010\u0016\u001a\u0002\u00138\u0002\u0002X\u0004\u0006\u0006\n\u0004\b\u0014\u0010\u0015\u0006\u0017"}, d2 =
{"Lua/gov/diia/app/ui/views/DiiaAppBarCV;", "Landroid/widget/FrameLayout;", "", "header", "Lp/t;", "setHeader", "(Ljava/lang/String;)V", "", "visible", "setQrVisible", "(Z)V", "Lkotlin/Function0;", "a", "Lp/a0/b/a;", "getOnQrScanButtonPressed", "()Lp/a0/b/a;", "setOnQrScanButtonPressed", "(Lp/a0/b/a;)V", "onQrScanButtonPressed", "Landroid/view/View;", "b", "Landroid/view/View;", "paddingView", "app_huaweiRelease"},
k = 1, mv = {1, 4, 2})
line 18: public final class DiiaAppBarCV extends FrameLayout {
line 19:     public a<t> a;

```


There is '**extends FrameLayout**' found in file '[a0/h/a/r/c.java](#)':

```
line 8:
line 9: public class c extends FrameLayout {
line 10:     @SuppressWarnings("UseSparseArrays")
```

There is '**extends FrameLayout**' found in file '[com/otaliastudios/cameraview/CameraView.java](#)':

```
line 54:
line 55: public class CameraView extends FrameLayout implements t {
line 56:     public static final String q2;
```

There is '**extends FrameLayout**' found in file '[com/otaliastudios/cameraview/overlay/OverlayLayout.java](#)':

```
line 14: @SuppressWarnings("CustomViewStyleable")
line 15: public class OverlayLayout extends FrameLayout implements a {
line 16:     public static final String b;
```

There is '**extends LinearLayout**' found in file '[ua/gov/diia/app/ui/views/DiiaBulletsCV.java](#)':

```
line 18: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000\u001e\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n\u0000\n\u0002\u0018\u0002\n\u0002\b\u0007\n\u0002\u0010\u0007\n\u0002\b\u0007\u0018\u0002\u0020\u0001J\u0015\u0010\u0005\u001a\u00020\u00042\u0006\u0010\u0003\u001a\u00020\u0002\u0006\u0004\b\u0005\u0010\u0006J\u0015\u0010\b\u001a\u00020\u00042\u0006\u0010\u0007\u001a\u00020\u0002\u0006\u0004\b\b\u0010\u0006R\u0016\u0010\u000b\u001a\u00020\u0028\u0002@\u002X\u000e\u0006\u0006\n\u0004\b\t\u0010\nR\u0016\u0010\u000f\u001a\u00020\u0028\u0002@\u002X\u000e\u0006\u0006\n\u0004\b\r\u0010\u000eR\u0016\u0010\u0011\u001a\u00020\u0028\u0002@\u002X\u000e\u0006\u0006\n\u0004\b\u0010\u0010\u000eR\u0016\u0010\u0007\u001a\u00020\u0028\u0002@\u002X\u000e\u0006\u0006\n\u0004\b\u0012\u0010\n\u0006\u0013"}, d2 =
{"Lua/gov/diia/app/ui/views/DiiaBulletsCV;", "Landroid/widget/LinearLayout;", "",
"position", "Lp/t;", "setPosition", "(I)V", "numOfBullets", "setNumOfBullets", "d",
"I", "bulletsColor", "", "c", "F", "bulletMargin", "b", "bulletSize", "a",
"app_huaweiRelease"}, k = 1, mv = {1, 4, 2})
line 19: public final class DiiaBulletsCV extends LinearLayout {
line 20:     public int a;
```

There is '**extends LinearLayout**' found in file '[com/androidadvance/topsnackbar/TSnackbar.java](#)':

```
line 40:
line 41:     public static class SnackbarLayout extends LinearLayout {
line 42:         public TextView a;
```

There is 'extends AppCompatActivity' found in file 'ua/gov/diia/app/ui/views/PinCodeInputCV.java':

```

line 36:    @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000\u0016\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0000\n\u00
002\u0010\u000b\n\u0002\b\u0005\u0018\u00002\u00020\u0001J\u0017\u0010\u0005\u001a\u000
20\u00042\u0006\u0010\u0003\u001a\u00020\u0002H\u0016\u0006\u0004\b\u0005\u0010\u0006J\u000f\u0010\u0007\u001a\u00020\u0004H\u0016\u0006\u0004\b\u0007\u0010\b\u0006\t"}, d2 =
{"Lua/gov/diia/app/ui/views/PinCodeInputCV$PinButton;",
"androidx/appcompat/widget/AppCompatActivity;", "android/view/MotionEvent;",
"event", "", "onTouchEvent", "(android/view/MotionEvent;)Z", "performClick", "()Z",
"app_huaweiRelease"}, k = 1, mv = {1, 4, 2})
line 37:    public static final class PinButton extends AppCompatActivity {
line 38:        public PinButton(Context context, AttributeSet attributeSet) {

```

There is 'extends View' found in file 'ua/gov/diia/app/ui/views/NfcProgressCV.java':

```

line 17: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n\u0002\b\u0002\n\u00
02\u0018\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\n\u0002\b\u0003\n\u0002\u0010\u0007\n
\u0002\b\u0002\n\u0002\u0018\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\u00020\u0001J\u001f\u0010\u000
6\u001a\u00020\u00052\u0006\u0010\u0003\u001a\u00020\u00022\u0006\u0010\u0004\u001a\u00
020\u0002H\u0014\u0006\u0004\b\u0006\u0010\u0007J\u0017\u0010\n\u001a\u00020\u00052\u0006\u0010\t\u001a
\u00020\bH\u0014\u0006\u0004\b\n\u0010\u000bR\u0010\u0013\u001a\u00020\u0006\u0006@\u0006X\u000e\u0006
\u0006\u0012\n\u0004\b\u0010\u000e\u001a\u0004\b\u000f\u0010\u0010\u0004\b\u0011\u00
010\u0012R*\u0010\u0018\u001a\u00020\u0006\u0010\u0014\u001a\u00020\u0006\u0006@FX\u00
0e\u0006\u0012\n\u0004\b\u0015\u0010\u000e\u001a\u0004\b\u0016\u0010\u0010\u0010\u0004\b\u001
7\u0010\u0012R\u0016\u0010\u001c\u001a\u00020\u0019\u0002@\u0002X\u0004\u0006\u0006\n\u0004\b\u001a\u0010\u001bR\u0016\u0010\u001e\u001a\u00020\u0006\u0002@\u000
2X\u0004\u0006\u0006\n\u0004\b\u001d\u0010\u000eR\u0016\u0010
\u001a\u00020\u0019\u0002@\u0002X\u0004\u0006\u0006\n\u0004\b\u001f\u0010\u001bR\u0016\u0010\u0010\u001a\u00020\u0006\u0002@\u0002X\u0004\u0006\u0006\n\u0004\b!\u0010\u000eR\u0016\u0010\u0010\u001a\u00020\u0006\u0002@\u0002X\u000e\u0006\u0006\n\u0004\b#\u0010\u000e\u0006%"}, d2 =
{"Lua/gov/diia/app/ui/views/NfcProgressCV;", "android/view/View;", "",
"widthMeasureSpec", "heightMeasureSpec", "Lp/t;", "onMeasure", "(II)V",
"android/graphics/Canvas;", "canvas", "onDraw", "(android/graphics/Canvas;)V", "",
"b", "F", "getMaxProgress", "()F", "setMaxProgress", "(F)V", "maxProgress", "value",
"c", "getCurrentProgress", "setCurrentProgress", "currentProgress",
"android/graphics/Paint;", "e", "android/graphics/Paint;",
"progressCubeCompletePaint", "f", "marginBetweenCubes", "d", "progressCubePaint", "g",
"cubeRadius", "a", "singleCubeSize", "app_huaweiRelease"}, k = 1, mv = {1, 4, 2})
line 18: public final class NfcProgressCV extends View {
line 19:    public float a;

```

There is 'extends View' found in file 'ua/gov/diia/app/ui/views/common/DiiaStatusDot.java':

```

line 18: @Metadata(bv = {1, 0, 3}, d1 =
{"\u00008\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n\u0002\b\u0002\n\u00
02\u0018\u0002\n\u0002\b\b\n\u0002\u0018\u0002\n\u0002\b\u0007\n\u0002\u0010\u000b\n\u0
002\b\u0003\n\u0002\u0010\u0007\n\u0002\b\u000b\n\u0002\u0018\u0002\n\u0002\b\u0004\u00
18\u00002\u00020\u0001J\u001f\u0010\u0006\u001a\u00020\u00052\u0006\u0010\u0003\u001a\u
00020\u00022\u0006\u0010\u0004\u001a\u00020\u0002H\u0014
\u0006\u0004\b\u0006\u0010\u0007J\u0010\u001a\u00020\u00052\u0006\u0010\b\u001a\u000
20\u00022\u0006\u0010\t\u001a\u00020\u00022\u0006\u0010\n\u001a\u00020\u00022\u0006\u00
10\u000b\u001a\u00020\u0002H\u0014
\u0006\u0004\b\u0010\u0017\u0010\u0010\u001a\u00020\u00052\u0006\u0010\u000f\u001a
\u00020\u000eH\u0014
\u0006\u0004\b\u0010\u0011J\u0017\u0010\u0013\u001a\u00020\u00052\b\b\u0001\u0010
\u0012\u001a\u00020\u0002
\u0006\u0004\b\u0013\u0010\u0014J\u0017\u0010\u0015\u001a\u00020\u00052\b\b\u0001\u0010
\u0012\u001a\u00020\u0002
\u0006\u0004\b\u0015\u0010\u0014J\u0015\u0010\u0018\u001a\u00020\u00052\u0006\u0010\u00
17\u001a\u00020\u0016
\u0006\u0004\b\u0018\u0010\u0019R\u0016\u0010\u001d\u001a\u00020\u001a8\u0002@\u0002X
\u000e\u0006\u0006\n\u0004\b\u001b\u0010\u001cR\u0016\u0010
\u001a\u00020\u00168\u0002@\u0002X
\u000e\u0006\u0006\n\u0004\b\u001e\u0010\u001fR\u0016\u0010#\u001a\u00020\u00028\u0002@
X
\u0006\u0006\n\u0004\b!\u0010\R\u0016\u0010%\u001a\u00020\u00028\u0002@\u0002X
\u000e\u0006\u0006\n\u0004\b$\u0010\R\u0016\u0010)\u001a\u00020&8\u0002@\u0002X
\u0006\u0006\n\u0004\b'\u0010(`\u0006*"}}, d2 =
{"Lua/gov/diia/app/ui/views/common/DiiaStatusDot;", "Landroid/view/View;", "",
"widthMeasureSpec", "heightMeasureSpec", "Lp/t;", "onMeasure", "(II)V", "width",
"height", "oldWidth", "oldHeight", "onSizeChanged", "(IIII)V",
"Landroid/graphics/Canvas;", "canvas", "onDraw", "(Landroid/graphics/Canvas;)V", "res",
"setColorEnabled", "(I)V", "setColorDisabled", "", "enabled", "setIsEnabled", "(Z)V",
"", "c", "F", [CUTTED]
line 19: public final class DiiaStatusDot extends View {
line 20:     public final Paint a;

```

There is 'extends View' found in file '[ua/gov/diia/app/ui/views/pager/ScrollingPagerIndicator.java](#)':

```

line 21:
line 22: public class ScrollingPagerIndicator extends View {
line 23:     public final float a;

```

There is 'extends View' found in file '[ua/gov/diia/app/ui/views/qrcodefinder/DiiaBarcodeFinderView.java](#)':

```

line 23: @Metadata(bv = {1, 0, 3}, d1 =
{"\u0000:\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0002\u0010\b\n
\u0000\n\u0002\u0018\u0002\n\u0002\b\b\n\u0002\u0010\u000b\n\u0002\b\u000b\n\u0002\u001
8\u0002\n\u0002\b\u0002\n\u0002\u0018\u0002\n\u0002\b\u0013\n\u0002\u0018\u0002\n\u0002
\b\r\b\u0016\u0018\u0002\u0020\u0012\u0020\u0020\u0020J\u0017\u0010\u0006\u001a\u0020\u0
052\u0006\u0010\u0004\u001a\u0020\u0003H\u0016
\u0006\u0004\b\u0006\u0010\u0007J\u0017\u0010\t\u001a\u0020\u0052\u0006\u0010\b\u001a
\u0020\u0003H\u0016
\u0006\u0004\b\t\u0010\u0007J\u0017\u0010\u000b\u001a\u0020\u0052\u0006\u0010\n\u001a
\u0020\u0003H\u0016
\u0006\u0004\b\u000b\u0010\u0007J\u0017\u0010\r\u001a\u0020\u0052\u0006\u0010\f\u001a
\u0020\u0003H\u0016
\u0006\u0004\b\r\u0010\u0007J\u0017\u0010\u0010\u001a\u0020\u0052\u0006\u0010\u000f\u
001a\u0020\u000eH\u0016
\u0006\u0004\b\u0010\u0010\u0011J\u0017\u0010\u0013\u001a\u0020\u0052\u0006\u0010\u00
12\u001a\u0020\u0003H\u0016
\u0006\u0004\b\u0013\u0010\u0007J\u0017\u0010\u0015\u001a\u0020\u0052\u0006\u0010\u00
14\u001a\u0020\u0003H\u0016
\u0006\u0004\b\u0015\u0010\u0007J\u0017\u0010\u0017\u001a\u0020\u0052\u0006\u0010\u00
16\u001a\u0020\u000eH\u0016
\u0006\u0004\b\u0017\u0010\u0011J\u000f\u0010\u0018\u001a\u0020\u0005H\u0016
\u0006\u0004\b\u0018\u0010\u0019J\u0011\u0010\u001b\u001a\u0004\u0018\u0010\u001aH\u00
16
\u0006\u0004\b\u001b\u0010\u001cJ\u0017\u0010\u001f\u001a\u0020\u0052\u0006\u0010\u00
1e\u001a\u0020\u001dH\u0016\u0006\u0004\b\u001f\u0010
J\u0010%\u001a\u0020\u0052\u0006\u0010!\u001a\u0020\u0032\u0006\u0010"\u001a\u000
20\u0032\u0006\u0010#\u001a\u0020\u0032\u0006\u0010$\u001a\u0020\u0003H\u0014
\u0006\u0004\b%\u0010&J\r\u0010'\u001a\u0020\u0005
\u0006\u0004\b'\u0010\u0019R\u0016\u0010*\u001a\u0020\u000e8\u0002@\u002X\u000e
\u0006\u0006\n\u0004\b(\u0010)R\u0016\u0010,\u001a\u0020\u0038\u0002@\u002X\u0004
\u0006\u0006\n\u0004\b\u0018\u0010+R\u0016\u0010.\u001a\u0020\u0038\u0002@\u002X\u00
[CUTTED]
line 24: public class DiiaBarcodeFinderView extends View implements a {
line 25:     public final int a;

```

There is 'extends View' found in file '[cards/pay/paycardsrecognizer/sdk/camera/widget/CardDetectionStateView.java](#)':

```

line 21:
line 22: public class CardDetectionStateView extends View {
line 23:     public final Rect a = new Rect();

```

There is 'extends View' found in file '[com/otaliastudios/cameraview/internal/GridLinesLayout.java](#)':

```

line 10:
line 11: public class GridLinesLayout extends View {
line 12:     public static final int f = Color.argb(160, 255, 255, 255);

```

There is 'extends AppCompatActivity' found in file '[ua/gov/diia/app/ui/views/LetterSpacingTextView.java](#)':

```

line 10:
line 11: public class LetterSpacingTextView extends AppCompatActivity {
line 12:     public float f;

```


There is '**extends HorizontalScrollView**' found in file '[r/c/j/z.java](#)':

```
line 20:
line 21: public class z extends HorizontalScrollView implements OnItemSelectedListener
{
line 22:     public boolean a;
```

There is '**extends ListView**' found in file '[r/c/j/q.java](#)':

```
line 19:
line 20: public class q extends ListView {
line 21:     public final Rect a = new Rect();
```

There is '**extends AppCompatActivity**' found in file '[br/com/sapereaude/maskedEditText/MaskedEditText.java](#)':

```
line 19:
line 20: public class MaskedEditText extends AppCompatActivity implements TextWatcher {
line 21:     public String e;
```

There is '**extends TextInputEditText**' found in file '[com/tranzzo/checkout/cardview/cardnumber/CustomErrorEditText.java](#)':

```
line 11:
line 12: public class CustomErrorEditText extends TextInputEditText {
line 13:     public CustomErrorEditText(Context context, AttributeSet attributeSet) {
```

CVSSv3 Base Score:

3.3 (AV:L/AC:H/PR:L/UI:R/S:U/C:L/I:L/A:N)

Reference:

- <https://developer.android.com/guide/topics/ui/declaring-layout.html>
- <https://developer.android.com/guide/topics/resources/layout-resource.html>
- <https://blog.lookout.com/blog/2010/12/09/android-touch-event-hijacking/>

EXPORTED SERVICES [M1] [CWE-926] [SAST]

LOW

Description:

The mobile application contains an exported service.

By default, in Android services are not exported and cannot be invoked by other applications. However, if an intent filter is defined in Android Manifest file, it is exported by default. Particular attention should be given to the exported services, as without the specific permissions, they can be used by any other applications including malicious ones.

Example of insecure code:

```
<service
  android:name=".receivers.BatteryMonitoringReceiver"
  android:exported="true"
  ...
</service>
```

Example of secure code:

```
<service
  android:name=".receivers.BatteryMonitoringReceiver"
  ...
</service>
```

Details:

There is '**HmsMsgService**' found in file '[android/AndroidManifest.xml](#)':

```
line 171:      <service android:directBootAware="true" android:enabled="true"
android:exported="true"
android:name="com.huawei.hms.support.api.push.service.HmsMsgService"
android:process=":pushservice">
```

CVSSv3 Base Score:

3.6 (AV:L/AC:H/PR:L/UI:N/S:U/C:L/I:L/A:N)

Reference:

- <https://developer.android.com/guide/components/services.html>
- <https://developer.android.com/reference/android/app/Service.html>
- <https://developer.android.com/guide/topics/manifest/service-element.html>

TEMPORARY FILE CREATION [SAST]

WARNING

Description:

The mobile application creates temporary files. Despite that cache files are usually private by default, it is recommended to make sure that temporary files are securely deleted when they are not required by the application anymore.

Details:

There is '**createTempFile()**' found in file '[r/z/i.java](#)':

```
line 44:      }
line 45:      File createTempFile = File.createTempFile("room-copy-helper", ".tmp",
this.a.getCacheDir());
line 46:      createTempFile.deleteOnExit();
```

There is '**createTempFile()**' found in file '[r/w/c.java](#)':

```
line 96:      InputStream inputStream = zipFile.getInputStream(zipEntry);
line 97:      File createTempFile = File.createTempFile(a0.b.a.a.a.D("tmp-", str),
".zip", file.getParentFile());
line 98:      StringBuilder X = a0.b.a.a.a.X("Extracting ");
```

Reference:

- <https://developer.android.com/training/basics/data-storage/files.html>

USAGE OF IMPLICIT INTENT [M1] [CWE-927] [SAST]

WARNING

Description:

The mobile application uses implicit intent that may be insecure under certain conditions.

Intents enable mobile applications to communicate with each other by requesting to perform different actions for which they are better suited. An implicit intent, however, does not specify to which particular application it sends a request to perform an action. If a malicious application is installed on victim's device, it may also receive the implicit intent, respond to it and perform some action instead, or in addition to, a legitimate application.

Example of insecure code:

```
Intent sendIntent = new Intent();
```

Example of secure code:

```
Intent downloadIntent = new Intent(this, DownloadService.class);
```

Details:

There is 'new Intent()' found in file 'ua/tranzzo/checkout_sdk/ui/TranzzoPaymentActivity.java':

```
line 97:    public final void Q(PaymentContractOutput paymentContractOutput) {
line 98:        Intent putExtra = new Intent().putExtra("payment_extra_result_tag",
paymentContractOutput);
line 99:        k.d(putExtra, "Intent().putExtra(PAYMEN...EXTRA_RESULT_TAG, output)");
```

There is 'new Intent()' found in file 'ua/gov/diia/app/ui/fragments/menu/MenuF.java':

```
line 170:                Objects.requireNonNull(menuF2);
line 171:                Intent intent2 = new Intent();
line 172:                intent2.setAction("android.intent.action.SEND");
```

There is 'new Intent()' found in file 'ua/gov/diia/app/ui/views/DiiaAcquirerStateBtn.java':

```
line 94:                k.e(str, "link");
line 95:                Intent intent = new Intent();
line 96:                intent.setAction(ACTION.HWID_SCHEME_URL);
```

There is 'new Intent()' found in file 'cards/pay/paycardsrecognizer/sdk/ui/ScanCardActivity.java':

```
line 39:    public void a(int i) {
line 40:        Intent intent = new Intent();
line 41:        intent.putExtra("RESULT_CANCEL_REASON", i);
```

```
line 46:    public void i(z.a.a.a.a aVar, byte[] bArr) {
line 47:        Intent intent = new Intent();
line 48:        intent.putExtra("RESULT_PAYCARDS_CARD", aVar);
```

There is 'new Intent()' found in file 'r/x/b.java':

```
line 39:         if (this.i == null) {
line 40:             this.i = new Intent();
line 41:         }
```

```
line 52:         if (this.i == null) {
line 53:             this.i = new Intent();
line 54:         }
```

```
line 58:         if (this.i == null) {
line 59:             this.i = new Intent();
line 60:         }
```

```
line 65:         if (this.i == null) {
line 66:             this.i = new Intent();
line 67:         }
```

There is 'new Intent()' found in file 'r/k/b/e.java':

```
line 1148:        try {
line 1149:            return Z(activity, componentName) == null ?
Intent.makeMainActivity(componentName) : new Intent().setComponent(componentName);
line 1150:        } catch (NameNotFoundException unused) {
```

```
line 1181:        ComponentName componentName2 = new
ComponentName(componentName.getPackageName(), Z);
line 1182:        return Z(context, componentName2) == null ?
Intent.makeMainActivity(componentName2) : new Intent().setComponent(componentName2);
line 1183:    }
```

There is 'new Intent()' found in file 'a0/f/a/c/o/b.java':

```
line 63:                } else {
line 64:                    Intent intent = new Intent();
line 65:                    if (jVar.l()) {
```

```
line 83:                }
line 84:                b.a(activity, this.a, 0, new Intent());
line 85:            }
```

There is 'new Intent()' found in file 'a0/f/a/d/a.java':

```
line 874:    public static void 00(@RecentlyNonNull Context context, @RecentlyNonNull
String str) {
line 875:        Intent intent = new Intent();
line 876:        intent.setClassName("com.google.android.gms",
"com.google.android.gms.vision.DependencyBroadcastReceiverProxy");
```

There is 'new Intent()' found in file 'com/huawei/hms/ui/SafeIntent.java':

```
line 11:        if (intent == null) {
line 12:            intent = new Intent();
line 13:        }
```

There is 'new Intent()' found in file 'com/huawei/hms/availableupdate/n.java':

```
line 174:        a(i, i2);
line 175:        Intent intent = new Intent();
line 176:        intent.putExtra(BridgeActivity.EXTRA_DELEGATE_CLASS_NAME,
getClass().getName());
```

There is 'new Intent()' found in file 'com/huawei/hms/availableupdate/p.java':

```
line 77:        try {
line 78:            Intent intent = new Intent();
line 79:            intent.setAction("com.huawei.appmarket.intent.action.AppDetail");
```

There is 'new Intent()' found in file 'com/huawei/hms/availableupdate/x.java':

```
line 82:        try {
line 83:            Intent intent = new Intent();
line 84:            intent.setAction("com.huawei.appmarket.intent.action.AppDetail");
```

There is 'new Intent()' found in file 'com/huawei/hms/hwid/internal/ui/activity/HwidSignInHubActivity.java':

```
line 55:        huaweiIdAuthResult.setStatus(status);
line 56:        Intent intent = new Intent();
line 57:        try {
```

```
line 121:            HMSLog.e(str, stringBuilder.toString());
line 122:            return new Intent();
line 123:        }
```

There is 'new Intent()' found in file '[com/huawei/hms/adapter/BinderAdapter.java](#)':

```
line 82:      ComponentName componentName = new
ComponentName(this.mContext.getApplicationInfo().packageName,
"com.huawei.hms.activity.BridgeActivity");
line 83:      Intent intent = new Intent();
line 84:      intent.setComponent(componentName);
```

There is 'new Intent()' found in file '[com/huawei/hms/adapter/ui/UpdateAdapter.java](#)':

```
line 82:      ComponentName componentName = new ComponentName(hmSPackageName,
"com.huawei.hms.fwksdk.stub.UpdateStubActivity");
line 83:      Intent intent2 = new Intent();
line 84:      intent2.putExtra(KpmsConstant.CALLER_PACKAGE_NAME,
activity.getApplicationContext().getPackageName());
```

There is 'new Intent()' found in file '[com/huawei/hms/push/HmsMessageService.java](#)':

```
line 44:      if (data != null) {
line 45:          Intent intent = new Intent();
line 46:          intent.putExtras(data);
```

There is 'new Intent()' found in file '[com/huawei/hms/push/utis/PluginUtil.java](#)':

```
line 47:      if (NotificationUtil.areNotificationsEnabled(context)) {
line 48:          Intent intent = new Intent();
line 49:          intent.setAction(PushIntents.ACTION_NOTIFY_MSG);
```

There is 'new Intent()' found in file '[com/huawei/hms/common/AccountPicker.java](#)':

```
line 34:      public static Intent newChooseAccountIntent(Account account,
ArrayList<Account> arrayList, String[] strArr, boolean z, String str, String str2,
String[] strArr2, Bundle bundle) {
line 35:          Intent intent = new Intent();
line 36:          intent.setAction(CHOOSE_ACCOUNT);
```

There is 'new Intent()' found in file '[com/huawei/hms/support/api/push/service/HmsMsgService.java](#)':

```
line 75:      }
line 76:      Intent intent = new Intent();
line 77:      intent.setAction(PushIntents.ACTION_NOTIFY_MSG);
```

```
line 93:      try {
line 94:          Intent intent = new Intent();
line 95:          intent.setAction(PushIntents.ACTION_PUSH_RECEIVE_MESSAGE);
```

There is 'new Intent()' found in file 'com/huawei/hms/api/b.java':

```
line 231:         } else if (isHuaweiMobileServicesAvailable == 3) {
line 232:             Intent intent = new Intent();
line 233:             intent.setClass(activity, EnableServiceActivity.class);
```

There is 'new Intent()' found in file 'com/huawei/hms/api/BindingFailedResolution.java':

```
line 109:             HMSLog.i("BindingFailedResolution", stringBuilder.toString());
line 110:             Intent intent = new Intent();
line 111:             intent.putExtra(BridgeActivity.EXTRA_RESULT, i);
```

```
line 117:     private void a(Activity activity) {
line 118:         Intent intent = new Intent();
line 119:         intent.setClassName(HMSPackageManager.getInstance(activity.getApplicationContext()).get
HMSPackageName(), HuaweiApiAvailability.ACTIVITY_NAME);
```

There is 'new Intent()' found in file 'com/huawei/hms/account/internal/ui/activity/AccountSignInHubActivity.java':

```
line 52:         accountAuthResult.setStatus(status);
line 53:         Intent intent = new Intent();
line 54:         try {
```

```
line 121:             HMSLog.e(str, stringBuilder.toString());
line 122:             return new Intent();
line 123:         }
```

There is 'new Intent()' found in file 'com/huawei/hms/analytics/h.java':

```
line 36:         if (this.klm != null) {
line 37:             lVar.setParcelable(PendingIntent.getService(this.klm, 1, new
Intent(), 134217728));
line 38:         }
```

There is 'new Intent()' found in file 'com/huawei/hms/analytics/bcd.java':

```
line 108:         if (gVar.lmn != null) {
line 109:             kVar.setParcelable(PendingIntent.getService(gVar.lmn, 1, new
Intent(), 134217728));
line 110:         }
```

There is 'new Intent()' found in file 'com/huawei/hms/analytics/u.java':

```
line 13:         super(context, lmn);
line 14:         Intent intent = new Intent();
line 15:         intent.setClassName("com.samsung.android.deviceidservice",
"com.samsung.android.deviceidservice.DeviceIdService");
```

There is 'new Intent()' found in file 'com/huawei/hms/analytics/receiver/SafeIntent.java':

```
line 8:         if (intent == null) {
line 9:             intent = new Intent();
line 10:        }
```

There is 'new Intent()' found in file 'com/huawei/updatesdk/support/pm/PackageInstallerActivity.java':

```
line 22:         Uri uriForFile;
line 23:         Intent intent = new Intent();
line 24:         intent.setAction("android.intent.action.INSTALL_PACKAGE");
```

There is 'new Intent()' found in file 'com/huawei/updatesdk/service/otaupdate/e.java':

```
line 113:        if (this.b != null) {
line 114:            Intent intent = new Intent();
line 115:            intent.putExtra("status", 6);
```

```
line 163:        if (this.b != null) {
line 164:            intent = new Intent();
line 165:            intent.putExtra(str2, 3);
```

```
line 189:        a.b(str, "no upgrade info");
line 190:        intent = new Intent();
line 191:        intent.putExtra(str2, 3);
```

```
line 205:        if (this.b != null) {
line 206:            Intent intent2 = new Intent();
line 207:            intent2.putExtra(UpdateKey.INFO, apkUpgradeInfo);
```

There is 'new Intent()' found in file 'com/huawei/updatesdk/service/otaupdate/g.java':

```
line 136:        if (checkUpdateCallBack != null) {
line 137:            Intent intent = new Intent();
line 138:            intent.putExtra("status", 2);
```



```

line 168:      }
line 169:      Intent intent = new Intent();
line 170:      intent.putExtra("status", 2);

```

```

line 179:      if (checkUpdateCallBack != null) {
line 180:          intent = new Intent();
line 181:          intent.putExtra(str2, 1);

```

```

line 189:      } else {
line 190:          intent = new Intent();
line 191:          intent.putExtra(str2, 2);

```

There is 'new Intent()' found in file '[com/huawei/updatesdk/service/otaupdate/AppUpdateActivity.java](#)':

```

line 153:      public void onDismiss(DialogInterface dialogInterface) {
line 154:          Intent intent = new Intent();
line 155:          intent.putExtra(UpdateKey.DIALOG_STATUS,
UpdateDialogStatusCode.DISMISS);

```

```

line 168:      public void onShow(DialogInterface dialogInterface) {
line 169:          Intent intent = new Intent();
line 170:          intent.putExtra(UpdateKey.DIALOG_STATUS,
UpdateDialogStatusCode.SHOW);

```

```

line 377:      private Intent a(int i, int i2, int i3) {
line 378:          Intent intent = new Intent();
line 379:          intent.putExtra(UpdateKey.MARKET_DLD_STATUS, i3);

```

```

line 462:          this.h = true;
line 463:          Intent intent2 = new Intent();
line 464:          intent2.putExtra("status", 8);

```

```

line 491:          com.huawei.updatesdk.b.d.f.a(this.r);
line 492:          Intent intent2 = new Intent();
line 493:          intent2.putExtra("status", 8);

```

```

line 706:      }
line 707:      Intent intent = new Intent();
line 708:      this.p = intent;

```

There is 'new Intent()' found in file 'com/huawei/updatesdk/b/d/e.java':

```
line 15:    public static void a(int i, int i2) {
line 16:        Intent intent = new Intent();
line 17:        Bundle bundle = new Bundle();
```

There is 'new Intent()' found in file 'e/a/a/a/d0/y/c.java':

```
line 18:        k.e(str, "url");
line 19:        Intent intent = new Intent();
line 20:        intent.setAction(ACTION.HWID_SCHEME_URL);
```

There is 'new Intent()' found in file 'e/a/a/a/a/f/c.java':

```
line 17:    public final void onClick(DialogInterface dialogInterface, int i) {
line 18:        Intent intent = new Intent();
line 19:        intent.setAction("android.settings.APP_NOTIFICATION_SETTINGS");
```

Reference:

- <https://developer.android.com/guide/components/intents-filters.html>
- <https://developer.android.com/training/articles/security-tips.html>

USAGE OF INTENT FILTER [M1] [CWE-927] [SAST]

WARNING

Description:

The mobile application uses an intent filter that may be a serious security risk if not properly implemented and filtered. Developers should not solely rely on intent filters for security purposes because they place no restrictions on explicit intents. Intent filters are defined in the Android Manifest file, they let developers choose which type of intents their application components are supposed to receive and handle.

Example of insecure code:

```
<intent-filter>
  <action android:name="android.intent.action.VIEW" />
  <action android:name="android.intent.action.EDIT" />
  <action android:name="android.intent.action.PICK" />
  <category android:name="android.intent.category.DEFAULT" />
  <data mimeType:name="vnd.android.cursor.dir/vnd.google.note" />
</intent-filter>
```

Example of secure code:

```
// When you use intent-filter, you have to perform input validation in your code.
```

Details:

There is '<intent-filter>' found in file 'android/AndroidManifest.xml':

```
line 55:      <service android:exported="false"
android:name="ua.gov.diaa.app.service.HCMS">
line 56:          <intent-filter>
line 57:              <action
android:name="com.huawei.push.action.MESSAGING_EVENT"/>
```

```
line 61:      <activity android:adjustViewBounds="true"
android:launchMode="singleTask"
android:name="ua.gov.diaa.app.ui.activities.VendorActivity"
android:resizeableActivity="false" android:screenOrientation="portrait"
android:theme="@style/AppTheme.Launcher" android:windowSoftInputMode="adjustPan">
line 62:          <intent-filter>
line 63:              <action android:name="android.intent.action.MAIN"/>
```

```
line 65:          </intent-filter>
line 66:          <intent-filter>
line 67:              <action android:name="android.intent.action.VIEW"/>
```

```
line 73:          </intent-filter>
line 74:          <intent-filter>
line 75:              <action android:name="android.intent.action.VIEW"/>
```

```
line 81:          </intent-filter>
line 82:          <intent-filter>
line 83:              <action android:name="android.intent.action.VIEW"/>
```

```
line 89:          </intent-filter>
line 90:          <intent-filter>
line 91:              <action android:name="android.intent.action.VIEW"/>
```

```
line 97:          </intent-filter>
line 98:          <intent-filter>
line 99:              <action android:name="android.intent.action.VIEW"/>
```

```
line 105:         </intent-filter>
line 106:         <intent-filter>
line 107:             <action android:name="android.intent.action.VIEW"/>
```

```
line 113:         </intent-filter>
line 114:         <intent-filter>
line 115:             <action android:name="android.intent.action.VIEW"/>
```

```
line 121:         </intent-filter>
line 122:         <intent-filter>
line 123:             <action android:name="android.intent.action.VIEW"/>
```

```
line 129:         </intent-filter>
line 130:         <intent-filter>
line 131:             <action android:name="android.intent.action.VIEW"/>
```

```
line 137:         </intent-filter>
line 138:         <intent-filter>
line 139:             <action android:name="android.intent.action.VIEW"/>
```

```
line 145:         </intent-filter>
line 146:         <intent-filter>
line 147:             <action android:name="android.intent.action.VIEW"/>
```

```
line 159:         <receiver android:directBootAware="true"
android:name="com.huawei.hms.support.api.push.PushMsgReceiver"
android:permission="ua.gov.diia.app.permission.PROCESS_PUSH_MSG">
line 160:             <intent-filter>
line 161:                 <action
android:name="com.huawei.intent.action.PUSH_DELAY_NOTIFY"/>
```

```
line 165:         <receiver android:directBootAware="true"
android:name="com.huawei.hms.support.api.push.PushReceiver"
android:permission="ua.gov.diia.app.permission.PROCESS_PUSH_MSG">
line 166:             <intent-filter>
line 167:                 <action
android:name="com.huawei.android.push.intent.REGISTRATION"/>
```

```
line 171:         <service android:directBootAware="true" android:enabled="true"
android:exported="true"
android:name="com.huawei.hms.support.api.push.service.HmsMsgService"
android:process=":pushservice">
line 172:             <intent-filter>
line 173:                 <action android:name="com.huawei.push.msg.NOTIFY_MSG"/>
```

```
line 186:         <receiver android:exported="false"
android:name="com.huawei.hms.analytics.receiver.HiAnalyticsSvcEvtReceiver">
line 187:             <intent-filter>
line 188:                 <action android:name="com.huawei.hms.analytics.pps.event"/>
```

```
line 220:         <receiver android:directBootAware="false" android:enabled="false"
android:exported="false"
android:name="androidx.work.impl.background.systemalarm.ConstraintProxy$BatteryCharging
Proxy">
line 221:             <intent-filter>
line 222:                 <action
android:name="android.intent.action.ACTION_POWER_CONNECTED"/>
```

```
line 226:         <receiver android:directBootAware="false" android:enabled="false"
android:exported="false"
android:name="androidx.work.impl.background.systemalarm.ConstraintProxy$BatteryNotLowPr
oxy">
line 227:             <intent-filter>
line 228:                 <action android:name="android.intent.action.BATTERY_OKAY"/>
```

```
line 232:         <receiver android:directBootAware="false" android:enabled="false"
android:exported="false"
android:name="androidx.work.impl.background.systemalarm.ConstraintProxy$StorageNotLowPr
oxy">
line 233:             <intent-filter>
line 234:                 <action
android:name="android.intent.action.DEVICE_STORAGE_LOW"/>
```

```
line 238:         <receiver android:directBootAware="false" android:enabled="false"
android:exported="false"
android:name="androidx.work.impl.background.systemalarm.ConstraintProxy$NetworkStatePro
xy">
line 239:             <intent-filter>
line 240:                 <action android:name="android.net.conn.CONNECTIVITY_CHANGE"/>
```

```
line 243:         <receiver android:directBootAware="false" android:enabled="false"
android:exported="false"
android:name="androidx.work.impl.background.systemalarm.RescheduleReceiver">
line 244:             <intent-filter>
line 245:                 <action android:name="android.intent.action.BOOT_COMPLETED"/>
```

```

line 250:         <receiver android:directBootAware="false"
android:enabled="@bool/enable_system_alarm_service_default" android:exported="false"
android:name="androidx.work.impl.background.systemalarm.ConstraintProxyUpdateReceiver">
line 251:             <intent-filter>
line 252:                 <action
android:name="androidx.work.impl.background.systemalarm.UpdateProxies"/>

```

```

line 255:         <receiver android:directBootAware="false" android:enabled="true"
android:exported="true"
android:name="androidx.work.impl.diagnostics.DiagnosticsReceiver"
android:permission="android.permission.DUMP">
line 256:             <intent-filter>
line 257:                 <action
android:name="androidx.work.diagnostics.REQUEST_DIAGNOSTICS"/>

```

Reference:

- <https://developer.android.com/guide/components/intents-filters.html>
- <https://developer.android.com/training/articles/security-tips.html>

DYNAMIC LOAD OF CODE [M7] [CWE-94] [SAST]

WARNING

Description:

The mobile application uses dynamic load of executable code. Under certain circumstances, dynamic load of code can be dangerous. For example, if the code is located on an external storage (e.g. SD card), this can lead to code injection vulnerability if the external storage is world readable and/or writable and an attacker can access it.

Example of insecure code:

```
Object test = loader.loadClass("Test", true).newInstance();
```

Example of secure code:

```
// If you are using code from unsafe place (like external storage),
// you should sign and cryptographically verify your code.
```

Details:

There is '**ClassLoader**' found in file '`ua/tranzzo/checkout_sdk/model/CardPaymentInput.java`':

```

line 17:         k.e(parcel, "in");
line 18:         return new CardPaymentInput((PaymentCard)
parcel.readParcelable(CardPaymentInput.class.getClassLoader()), (PaymentData)
PaymentData.CREATOR.createFromParcel(parcel));
line 19:     }

```

There is '**ClassLoader**' found in file '[ua/tranzzo/checkout_sdk/data/model/SdkPaymentData.java](#)':

```
line 20:          k.e(parcel, "in");
line 21:          return new SdkPaymentData((b) Enum.valueOf(b.class,
parcel.readString()), (PaymentData) PaymentData.CREATOR.createFromParcel(parcel),
(PaymentCard) parcel.readParcelable(SdkPaymentData.class.getClassLoader()),
parcel.readString());
line 22:          }
```

There is '**ClassLoader**' found in file '[ua/gov/diia/app/models/ConsumableItem.java](#)':

```
line 20:          k.e(parcel, "in");
line 21:          return new
ConsumableItem(parcel.readParcelable(ConsumableItem.class.getClassLoader()),
parcel.readInt() != 0);
line 22:          }
```

There is '**ClassLoader**' found in file '[ua/gov/diia/app/models/driver_license_replace/CreateApplicationViewRequest.java](#)':

```
line 39:          for (int i = 0; readInt > i; i++) {
line 40:              contextMenuFieldArr[i] = (ContextMenuField)
parcel.readParcelable(CreateApplicationViewRequest.class.getClassLoader());
line 41:          }
```

There is '**ClassLoader**' found in file '[ua/gov/diia/app/models/documents/DiiaDocumentWithMetadata.java](#)':

```
line 33:          k.e(parcel, "in");
line 34:          return new DiiaDocumentWithMetadata((DiiaDocument)
parcel.readParcelable(DiiaDocumentWithMetadata.class.getClassLoader()),
parcel.readString(), parcel.readString(), parcel.readInt(), parcel.readString(),
parcel.readInt());
line 35:          }
```

There is '**ClassLoader**' found in file '[j\\$/time/zone/e.java](#)':

```
line 33:          try {
line 34:              e eVar = (e) cls.cast(Class.forName(property, true,
cls.getClassLoader()).newInstance());
line 35:              e.e(eVar);
```

There is 'ClassLoader' found in file 'cards/pay/paycardsrecognizer/sdk/ndk/RecognitionResult.java':

```
line 58:         this.d = parcel.readString();
line 59:         this.e = (Rect) parcel.readParcelable(Rect.class.getClassLoader());
line 60:         this.f = (Bitmap)
parcel.readParcelable(Bitmap.class.getClassLoader());
line 61:     }
```

There is 'ClassLoader' found in file 'r/g0/b.java':

```
line 106:     public <T extends Parcelable> T l() {
line 107:         return this.e.readParcelable(b.getClass.getClassLoader());
line 108:     }
```

There is 'ClassLoader' found in file 'r/g0/a.java':

```
line 26:         }
line 27:         cls2 = Class.forName(String.format("%s.%sParcelizer", new Object[]
{cls.getPackage().getName(), cls.getSimpleName()}), false, cls.getClassLoader());
line 28:         this.c.put(cls.getName(), cls2);
```

```
line 38:         System.currentTimeMillis();
line 39:         method = Class.forName(str, true,
cls.getClassLoader()).getDeclaredMethod("read", new Class[]{cls});
line 40:         this.a.put(str, method);
```

There is 'ClassLoader' found in file 'r/o/d/b.java':

```
line 14:         try {
line 15:             c = Class.forName("android.text.DynamicLayout$ChangeWatcher",
false, getClass().getClassLoader());
line 16:         } catch (Throwable unused) {
```

There is 'ClassLoader' found in file 'r/k0/v/t/h.java':

```
line 25:         try {
line 26:             Method declaredMethod =
Class.forName("android.app.ActivityThread", false,
c.getClassLoader()).getDeclaredMethod("currentProcessName", new Class[0]);
line 27:             declaredMethod.setAccessible(true);
```


There is 'ClassLoader' found in file 'r/c/b.java':

```

line 1122:
line 1123:     public static final Class<?> d1(ClassLoader classLoader, String str) {
line 1124:         k.e(classLoader, "$this$tryLoadClass");
line 1125:         k.e(str, "fqName");
line 1126:         try {
line 1127:             return Class.forName(str, false, classLoader);
line 1128:         } catch (ClassNotFoundException unused) {

```

There is 'ClassLoader' found in file 'r/c/i/f.java':

```

line 123:         try {
line 124:             Constructor constructor = Class.forName(str, false,
f.this.c.getClassLoader()).getConstructor(clsArr);
line 125:             constructor.setAccessible(true);

```

There is 'ClassLoader' found in file 'r/c/j/w.java':

```

line 78:         try {
line 79:             Drawable drawable = (Drawable)
d.class.getClassLoader().loadClass(classAttribute).asSubclass(Drawable.class).getDeclaredConstructor(new Class[0]).newInstance(new Object[0]);
line 80:             if (VERSION.SDK_INT >= 21) {

```

There is 'ClassLoader' found in file 'r/c/d/p.java':

```

line 486:         str2 = str;
line 487:         constructor = Class.forName(str2, false,
context.getClassLoader()).asSubclass(View.class).getConstructor(b);
line 488:         hVar.put(str, constructor);

```

There is 'ClassLoader' found in file 'r/q/b/z.java':

```

line 10:     public final q a;
line 11:     public final ClassLoader b;
line 12:     public ArrayList<a> c = new ArrayList();

```

```

line 55:
line 56:     public z(q qVar, ClassLoader classLoader) {
line 57:         this.a = qVar;
line 58:         this.b = classLoader;
line 59:     }

```

There is 'ClassLoader' found in file 'r/q/b/q.java':

```

line 8: public class q {
line 9:     public static final h<ClassLoader, h<String, Class<?>>> a = new h();
line 10:
line 11:     public static Class<?> b(ClassLoader classLoader, String str) {
line 12:         h hVar = a;
line 13:         h hVar2 = (h) hVar.getDefault(classLoader, null);
line 14:         if (hVar2 == null) {
line 15:             hVar2 = new h();
line 16:             hVar.put(classLoader, hVar2);
line 17:         }

```

```

line 21:     }
line 22:     Class cls2 = Class.forName(str, false, classLoader);
line 23:     hVar2.put(str, cls2);

```

```

line 26:
line 27:     public static Class<? extends Fragment> c(ClassLoader classLoader, String
str) {
line 28:         String str2 = "Unable to instantiate fragment ";
line 29:         try {
line 30:             return b(classLoader, str);
line 31:         } catch (ClassNotFoundException e) {

```

```

line 37:
line 38:     public Fragment a(ClassLoader classLoader, String str) {
line 39:         throw null;

```

There is 'ClassLoader' found in file 'r/q/b/s.java':

```

line 77:     L_0x0041:
line 78:         r1 = r12.getClassLoader();
line 79:         r8 = r.q.b.q.a;

```

```

line 139:         r0 = r0.L();
line 140:         r12 = r12.getClassLoader();
line 141:         r0 = r0.a(r12, r11);

```

There is '**ClassLoader**' found in file '[r/q/b/x.java](#)':

```

line 82:
line 83:     public x(t tVar, y yVar, ClassLoader classLoader, q qVar, FragmentState
fragmentState) {
line 84:         this.a = tVar;
line 85:         this.b = yVar;
line 86:         Fragment a = qVar.a(classLoader, fragmentState.a);
line 87:         this.c = a;

```

```

line 89:         if (bundle != null) {
line 90:             bundle.setClassLoader(classLoader);
line 91:         }

```

```

line 889:
line 890:     public void m(ClassLoader classLoader) {
line 891:         Bundle bundle = this.c.b;
line 892:         if (bundle != null) {
line 893:             bundle.setClassLoader(classLoader);
line 894:             Fragment fragment = this.c;

```

There is '**ClassLoader**' found in file '[r/q/b/a.java](#)':

```

line 20:         r rVar = fragmentManager.q;
line 21:         super(L, rVar != null ? rVar.b.getClassLoader() : null);
line 22:         this.v = -1;

```

There is '**ClassLoader**' found in file '[r/x/y/b.java](#)':

```

line 144:         r4 = r4.L();
line 145:         r3 = r3.getClassLoader();
line 146:         r0 = r4.a(r3, r0);

```

There is '**ClassLoader**' found in file '[r/x/y/a.java](#)':

```

line 96:         r4 = r4.L();
line 97:         r3 = r3.getClassLoader();
line 98:         r0 = r4.a(r3, r0);

```

There is '**ClassLoader**' found in file '[r/w/a.java](#)':

```
line 149:      r2 = 0;
line 150:      r3 = r6.getClassLoader();      Catch:{ RuntimeException -> 0x0061 }
line 151:      r4 = r3 instanceof dalvik.system.BaseDexClassLoader;  Catch:{ all ->
0x00c7 }
line 152:      if (r4 == 0) goto L_0x005b;
```

```
line 155:      L_0x005b:
line 156:      r3 = "Context class loader is null or not dex-capable. Must be
running in test mode. Skip patching.";
line 157:      android.util.Log.e(r1, r3);      Catch:{ all -> 0x00c7 }
```

```
line 160:      r3 = move-exception;
line 161:      r4 = "Failure while trying to obtain Context class loader. Must be
running in test mode. Skip patching.";
line 162:      android.util.Log.w(r1, r4, r3);      Catch:{ all -> 0x00c7 }
```

```
line 285:
line 286:      public static void f(ClassLoader classLoader, File file, List<? extends
File> list) {
line 287:          if (!list.isEmpty()) {
line 288:              Object obj = d(classLoader, "pathList").get(classLoader);
line 289:              ArrayList arrayList = new ArrayList();
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/a/c.java](#)':

```
line 10:      static {
line 11:          c.class.getClassLoader();
line 12:      }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/h/q0.java](#)':

```
line 7:      static {
line 8:          q0.class.getClassLoader();
line 9:      }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/c/c.java](#)':

```
line 9:      static {
line 10:          c.class.getClassLoader();
line 11:      }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/d/b.java](#)':

```
line 6:    static {
line 7:        b.class.getClassLoader();
line 8:    }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/b/y0.java](#)':

```
line 132:        try {
line 133:            Class.forName(cls.getName(), true, cls.getClassLoader());
line 134:            t = (y0) zzjr.get(cls);
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/b/r0.java](#)':

```
line 10:    static {
line 11:        r0.class.getClassLoader();
line 12:    }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/k/k3.java](#)':

```
line 18:    Class cls2 = k3.class;
line 19:    ClassLoader classLoader = cls2.getClassLoader();
line 20:    if (cls.equals(z2.class)) {
```

```
line 27:        try {
line 28:            return (z2) cls.cast(((k3) Class.forName(str, true,
classLoader).getConstructor(new Class[0]).newInstance(new Object[0])).a());
line 29:        } catch (NoSuchMethodException e) {
```

```
line 37:    } catch (ClassNotFoundException unused) {
line 38:        Iterator it = ServiceLoader.load(cls2, classLoader).iterator();
line 39:        ArrayList arrayList = new ArrayList();
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/k/g0.java](#)':

```
line 10:    static {
line 11:        g0.class.getClassLoader();
line 12:    }
```

There is '**ClassLoader**' found in file '[a0/f/a/c/i/k/n3.java](#)':

```
line 231:        try {
line 232:            Class.forName(cls.getName(), true, cls.getClassLoader());
line 233:            t = (n3) zzd.get(cls);
```

There is 'ClassLoader' found in file 'a0/f/a/c/i/l/f.java':

```
line 10:    static {
line 11:        f.class.getClassLoader();
line 12:    }
```

There is 'ClassLoader' found in file 'a0/f/a/c/f/c.java':

```
line 178:        r1 = r12.getApplicationContext();    Catch:{ ClassNotFoundException
-> 0x00a8, IllegalAccessException -> 0x00a6, ClassNotFoundException |
IllegalAccessException | NoSuchFieldException -> 0x00a4 }
line 179:        r1 = r1.getClassLoader();    Catch:{ ClassNotFoundException ->
0x00a8, IllegalAccessException -> 0x00a6, ClassNotFoundException |
IllegalAccessException | NoSuchFieldException -> 0x00a4 }
line 180:        r3 =
com.google.android.gms.dynamite.DynamiteModule.DynamiteLoaderClassLoader.class;
line 181:        r3 = r3.getName();    Catch:{ ClassNotFoundException -> 0x00a8,
IllegalAccessException -> 0x00a6, ClassNotFoundException | IllegalAccessException |
NoSuchFieldException -> 0x00a4 }
line 182:        r1 = r1.loadClass(r3);    Catch:{ ClassNotFoundException ->
0x00a8, IllegalAccessException -> 0x00a6, ClassNotFoundException |
IllegalAccessException | NoSuchFieldException -> 0x00a4 }
line 183:        r3 = "sClassLoader";
line 184:        r1 = r1.getDeclaredField(r3);    Catch:{ ClassNotFoundException ->
0x00a8, IllegalAccessException -> 0x00a6, ClassNotFoundException |
IllegalAccessException | NoSuchFieldException -> 0x00a4 }
```

```
line 187:        r4 = r1.get(r2);    Catch:{ all -> 0x00a1 }
line 188:        r4 = (java.lang.ClassLoader) r4;    Catch:{ all -> 0x00a1 }
line 189:        if (r4 == 0) goto L_0x003a;
line 190:    L_0x002d:
line 191:        r1 = java.lang.ClassLoader.getSystemClassLoader();    Catch:{ all ->
0x00a1 }
line 192:        if (r4 != r1) goto L_0x0034;
```

```
line 206:    L_0x004a:
line 207:        r4 = java.lang.ClassLoader.getSystemClassLoader();    Catch:{ all ->
0x00a1 }
line 208:    L_0x004e:
```

```
line 224:    L_0x0067:
line 225:        r5 = new dalvik.system.DelegateLastClassLoader;    Catch:{ a ->
0x0098 }
line 226:        r6 = com.google.android.gms.dynamite.DynamiteModule.e;    Catch:
{ a -> 0x0098 }
```

```

line 228:      java.util.Objects.requireNonNull(r6, r7);      Catch:{ a -> 0x0098 }
line 229:      r7 = java.lang.ClassLoader.getSystemClassLoader();  Catch:{ a ->
0x0098 }
line 230:      r5.<init>(r6, r7);      Catch:{ a -> 0x0098 }

```

```

line 236:      java.util.Objects.requireNonNull(r6, r7);      Catch:{ a -> 0x0098 }
line 237:      r7 = java.lang.ClassLoader.getSystemClassLoader();  Catch:{ a ->
0x0098 }
line 238:      r5.<init>(r6, r7);      Catch:{ a -> 0x0098 }

```

```

line 251:      L_0x0098:
line 252:      r4 = java.lang.ClassLoader.getSystemClassLoader();  Catch:{ all ->
0x00a1 }
line 253:      goto L_0x004e;

```

There is 'ClassLoader' found in file 'a0f/a/c/f/a.java':

```

line 2:
line 3: import dalvik.system.PathClassLoader;
line 4:
line 5: public final class a extends PathClassLoader {
line 6:     public a(String str, ClassLoader classLoader) {
line 7:         super(str, classLoader);
line 8:     }

```

There is 'ClassLoader' found in file 'a0f/a/c/j/a/m.java':

```

line 33:      case 3:
line 34:      ClassLoader classLoader = m.class.getClassLoader();
line 35:      readInt = a.z(parcel2, readInt);

```

```

line 37:      if (readInt != 0) {
line 38:          parcel2.readList(arrayList, classLoader);
line 39:          parcel2.setDataPosition(dataPosition + readInt);

```

There is 'ClassLoader' found in file 'a0f/a/d/a.java':

```

line 2295:     try {
line 2296:         Method declaredMethod =
Class.forName("android.app.ActivityThread", false,
Application.class.getClassLoader()).getDeclaredMethod("currentProcessName", new
Class[0]);
line 2297:         declaredMethod.setAccessible(true);

```

There is 'ClassLoader' found in file 'a0/f/c/a/j0/a/y.java':

```
line 150:          try {
line 151:              Class.forName(cls.getName(), true, cls.getClassLoader());
line 152:              t = (y) defaultInstanceMap.get(cls);
```

There is 'ClassLoader' found in file 'a0/j/a/b0/c.java':

```
line 366:          r1 = r3.toString();
line 367:          r9 = r9.getClassLoader();      Catch:{ ClassNotFoundException ->
0x00ef, NoSuchMethodException -> 0x00af, IllegalAccessException -> 0x00a2,
InstantiationException -> 0x0095, InvocationTargetException -> 0x0090 }
line 368:          r3 = 1;
```

There is 'ClassLoader' found in file 'a0/b/a/a/a.java':

```
line 224:          k.e(bundle, str);
line 225:          bundle.setClassLoader(cls.getClassLoader());
line 226:          return bundle.containsKey(str2);
```

There is 'ClassLoader' found in file 'a0/k/a/a/f.java':

```
line 1055:         p.f n02 = r.k.b.e.n0(new p.a.a.a.t0.f(cls, map));
line 1056:         Object newProxyInstance =
Proxy.newProxyInstance(cls.getClassLoader(), new Class[]{cls}, new p.a.a.a.t0.d(cls,
n02, null, n0, null, bVar, map));
line 1057:         Objects.requireNonNull(newProxyInstance, "null cannot be cast to
non-null type T");
```

There is 'ClassLoader' found in file 'h0/b0.java':

```
line 169:          }
line 170:          return Proxy.newProxyInstance(cls.getClassLoader(), new Class[]
{cls}, new a(cls));
line 171:          }
```

There is 'ClassLoader' found in file 'e0/k0/j/d.java':

```
line 85:          try {
line 86:              Object newProxyInstance =
Proxy.newProxyInstance(f.class.getClassLoader(), new Class[]{this.f, this.g}, new
a(b));
line 87:              this.c.invoke(null, new Object[]{SSLsocket, newProxyInstance});
```


There is 'ClassLoader' found in file 'com.huawei/hms/core/aidl/b.java':

```
line 45:
line 46:     private static ClassLoader a(Class cls) {
line 47:         return cls.getClassLoader();
line 48:     }
```

There is 'ClassLoader' found in file 'com.huawei/hms/core/aidl/e.java':

```
line 106:     }
line 107:     bundle.setClassLoader(getClass().getClassLoader());
line 108:     for (Class cls = IMessageEntity.getClass(); cls != null; cls =
cls.getSuperclass()) {
```

There is 'ClassLoader' found in file 'com.huawei/hms/framework/common/StringUtils.java':

```
line 40:     private static boolean checkCompatible(String str) {
line 41:         ClassLoader classLoader = SecurityBase64Utils.class.getClassLoader();
line 42:         if (classLoader == null) {
line 43:             return false;
```

```
line 45:         try {
line 46:             classLoader.loadClass(str);
line 47:             synchronized (StringUtils.class) {
```

There is 'ClassLoader' found in file 'com.huawei/hms/framework/common/ReflectionUtils.java':

```
line 198:     private static void tryLoadClass(String str) {
line 199:         ClassLoader classLoader = ReflectionUtils.class.getClassLoader();
line 200:         if (classLoader != null) {
line 201:             classLoader.loadClass(str);
line 202:             return;
line 203:         }
line 204:         throw new ClassNotFoundException("not found classloader");
line 205:     }
```

There is 'ClassLoader' found in file 'com.huawei/hms/framework/common/SecurityBase64Utils.java':

```
line 11:     private static boolean checkCompatible(String str) {
line 12:         ClassLoader classLoader = SecurityBase64Utils.class.getClassLoader();
line 13:         if (classLoader == null) {
line 14:             return false;
```

```

line 16:      try {
line 17:          classLoader.loadClass(str);
line 18:          synchronized (StringUtils.class) {

```

There is '**ClassLoader**' found in file '[com/huawei/hms/mlsdk/dynamic/AbstractInitializer.java](#)':

```

line 28:      try {
line 29:          ClassLoader classLoader =
context.getClassLoader().loadClass(getCreatorClass()).getClassLoader();
line 30:          if (classLoader != null) {
line 31:              return
classLoader.getClass().getName().contains(PackageConstants.SERVICES_PACKAGE_ALL_SCENE);
line 32:          }

```

```

line 158:     try {
line 159:         this.mDynamicDelegate = generateDynamicDelegateBridge((IBinder)
dynamicContext.getClassLoader().loadClass(getCreatorClass()).newInstance());
line 160:     } catch (Exception e) {

```

There is '**ClassLoader**' found in file '[com/huawei/hms/common/parcel/ParcelReader.java](#)':

```

line 849:
line 850:     public void readList(int i, List list, ClassLoader classLoader) {
line 851:         if (this.a.containsKey(Integer.valueOf(i))) {

```

```

line 854:         if (i != 0) {
line 855:             this.e.readList(list, classLoader);
line 856:             this.e.setDataPosition(dataPosition + i);

```

There is '**ClassLoader**' found in file '[com/huawei/hms/common/internal/safeparcel/SafeParcelReader.java](#)':

```

line 750:
line 751:     public static void readList(Parcel parcel, int i, List list, ClassLoader
classLoader) {
line 752:         i = readSize(parcel, i);

```

```

line 755:         ensureDataPositionValid(parcel, i, dataPosition);
line 756:         parcel.readList(list, classLoader);
line 757:         parcel.setDataPosition(i + dataPosition);

```

There is 'ClassLoader' found in file '[com/huawei/hms/common/webserverpic/WebServerPicCreator.java](#)':

```
line 8:    public WebServerPic createFromParcel(Parcel parcel) {
line 9:        return new WebServerPic((Uri)
parcel.readParcelable(Uri.class.getClassLoader()), parcel.readInt(), parcel.readInt());
line 10:    }
```

There is 'ClassLoader' found in file '[com/huawei/hms/support/hwid/service/HuaweiIdAuthAPIServiceImpl.java](#)':

```
line 171:                if (extras != null) {
line 172:                    extras.setClassLoader(getClass().getClassLoader());
line 173:                    ShippingAddressParcelable shippingAddressParcelable =
(ShippingAddressParcelable) extras.getParcelable(RETKEY.SHIPPING_ADDRESS);
```

There is 'ClassLoader' found in file '[com/huawei/hms/support/api/entity/hwid/ShippingAddressInfo.java](#)':

```
line 74:        this.lastUpdateTime = parcel.readString();
line 75:        this.selectedLabelInfo = (LabelInfo)
parcel.readParcelable(LabelInfo.class.getClassLoader());
line 76:    }
```

There is 'ClassLoader' found in file '[com/huawei/hms/support/feature/result/AbstractAuthAccount.java](#)':

```
line 234:        this.countryCode = parcel.readString();
line 235:        this.grantedScopes = new
HashSet(parcel.readArrayList(Scope.class.getClassLoader()));
line 236:        this.unionId = parcel.readString();
```

There is 'ClassLoader' found in file '[com/huawei/hms/feature/dynamic/DynamicModule.java](#)':

```
line 207:
line 208:    public static class DynamicLoaderClassLoader {
line 209:        private static HashMap<String, ClassLoader> a = new HashMap();
line 210:
line 211:        public static ClassLoader getClassLoader(String str) {
line 212:            return (ClassLoader) a.get(str);
line 213:        }
line 214:
line 215:        public static void setsClassLoader(String str, ClassLoader
classLoader) {
line 216:            a.put(str, classLoader);
line 217:        }
```

```

line 400:             if (!TextUtils.isEmpty(str)) {
line 401:                 return IDynamicInstall.Stub.asInterface((IBinder) new
com.huawei.hms.feature.dynamic.a.a(str,
ClassLoader.getSystemClassLoader()).loadClass(b.f).getConstructor(new
Class[0]).newInstance(new Object[0]));
line 402:             }

```

```

line 411:
line 412:     private static void a(String str, ClassLoader classLoader) {
line 413:         try {
line 414:             f.set(new AnonymousClass3(str, (IBinder)
classLoader.loadClass(b.e).getConstructor(new Class[0]).newInstance(new Object[0]));
line 415:         } catch (ClassNotFoundException | IllegalAccessException |
InstantiationException | NoSuchMethodException | InvocationTargetException e) {

```

```

line 429:             com.huawei.hms.common.util.Logger.i(r3, "The android version is
below android 5.");
line 430:             a(r11, new com.huawei.hms.feature.dynamic.a.b(r8,
r10.getFilesDir().getAbsolutePath(), java.lang.ClassLoader.getSystemClassLoader()));
line 431:             r0.invoke(null, new java.lang.Object[]{r11, r3});

```

```

line 433:     /* JADX WARNING: Missing block: B:30:0x00b3, code skipped:
line 434:             a(r11, new com.huawei.hms.feature.dynamic.a.a(r8,
java.lang.ClassLoader.getSystemClassLoader()));
line 435:             r0.invoke(null, new java.lang.Object[]{r11, r10});

```

```

line 467:     L_0x0010:
line 468:         r3 = r3.getClassLoader();           Catch:{ LoadingException -> 0x00f6,
Exception -> 0x00d6 }
line 469:         r4 =
com.huawei.hms.feature.dynamic.DynamicModule.DynamicLoaderClassLoader.class;
line 470:         r4 = r4.getName();           Catch:{ LoadingException -> 0x00f6, Exception
-> 0x00d6 }
line 471:         r3 = r3.loadClass(r4);           Catch:{ LoadingException -> 0x00f6,
Exception -> 0x00d6 }
line 472:         r4 = "getsClassLoader";
line 473:         r5 = new java.lang.Class[r1];   Catch:{ LoadingException -> 0x00f6,
Exception -> 0x00d6 }

```

```

line 475:         r4 = r3.getDeclaredMethod(r4, r5);   Catch:{ LoadingException ->
0x00f6, Exception -> 0x00d6 }
line 476:         r5 = "setsClassLoader";
line 477:         r6 = 2;

```

```

line 479:      r7[r2] = r0;    Catch:{ LoadingException -> 0x00f6, Exception ->
0x00d6 }
line 480:      r0 = java.lang.ClassLoader.class;
line 481:      r7[r1] = r0;    Catch:{ LoadingException -> 0x00f6, Exception ->
0x00d6 }

```

```

line 486:      r3 = r4.invoke(r5, r3);          Catch:{ LoadingException -> 0x00f6,
Exception -> 0x00d6 }
line 487:      r3 = (java.lang.ClassLoader) r3;          Catch:{ LoadingException ->
0x00f6, Exception -> 0x00d6 }
line 488:      if (r3 == 0) goto L_0x0062;
line 489:      L_0x0044:
line 490:      r10 = java.lang.ClassLoader.getSystemClassLoader();    Catch:{
LoadingException -> 0x00f6, Exception -> 0x00d6 }
line 491:      if (r3 != r10) goto L_0x004c;

```

```

line 534:      r10 = r10.getAbsolutePath();    Catch:{ a -> 0x00de }
line 535:      r7 = java.lang.ClassLoader.getSystemClassLoader();    Catch:{ a ->
0x00de }
line 536:      r3.<init>(r8, r10, r7);          Catch:{ a -> 0x00de }

```

```

line 544:      r10 = new com.huawei.hms.feature.dynamic.a.a;    Catch:{ a -> 0x00de }
line 545:      r3 = java.lang.ClassLoader.getSystemClassLoader();    Catch:{ a ->
0x00de }
line 546:      r10.<init>(r8, r3);    Catch:{ a -> 0x00de }

```

```

line 587:      try {
line 588:          return (IDynamicInstall)
context.getClassLoader().loadClass(b.f).newInstance();
line 589:      } catch (ClassNotFoundException | IllegalAccessException |
InstantiationException e) {

```

```

line 696:      }
line 697:      return
context.getClassLoader().loadClass(stringBuilder2).getDeclaredField("MODULE_VERSION").g
etInt(null);
line 698:      } catch (ClassNotFoundException unused) {

```

There is '**ClassLoader**' found in file '[com/huawei/hms/feature/dynamic/a/b.java](#)':

```

line 3: import android.util.Log;
line 4: import dalvik.system.DexClassLoader;
line 5:
line 6: public final class b extends DexClassLoader {
line 7:     private static final String a = b.class.getSimpleName();
line 8:
line 9:     public b(String str, String str2, ClassLoader classLoader) {
line 10:         super(str, str2, null, classLoader);
line 11:     }

```

There is '**ClassLoader**' found in file '[com/huawei/hms/feature/dynamic/a/a.java](#)':

```

line 3: import android.util.Log;
line 4: import dalvik.system.PathClassLoader;
line 5:
line 6: public final class a extends PathClassLoader {
line 7:     private static final String a = a.class.getSimpleName();
line 8:
line 9:     public a(String str, ClassLoader classLoader) {
line 10:         super(str, classLoader);
line 11:     }

```

There is '**ClassLoader**' found in file '[com/huawei/hms/base/common/ParcelReader.java](#)':

```

line 851:
line 852:     public void readList(int i, List list, ClassLoader classLoader) {
line 853:         if (this.mapFields.containsKey(Integer.valueOf(i))) {

```

```

line 856:             if (i != 0) {
line 857:                 this.parcel.readList(list, classLoader);
line 858:                 this.parcel.setDataPosition(dataPosition + i);

```

There is '**ClassLoader**' found in file '[e/a/a/d0/o0/b.java](#)':

```

line 89:         k.d(str, "destination.className");
line 90:         Fragment a = this.f.L().a(this.e.getClassLoader(), str);
line 91:         wVar.a = a;

```

There is 'ClassLoader' found in file 'e/a/a/a/a/f/d.java':

```

line 55:      if (qVar != null) {
line 56:          ClassLoader classLoader = aVar.b;
line 57:          if (classLoader != null) {
line 58:              Fragment a = qVar.a(classLoader, cls.getName());
line 59:              a.F0(bundle);

```

There is 'ClassLoader' found in file 'p/a/a/a/n.java':

```

line 129:      if (z) {
line 130:          ClassLoader e = p.a.a.a.u0.b.d1.b.b.e(cls3);
line 131:          StringBuilder stringBuilder = new StringBuilder();

```

```

line 155:      } else if (charAt == 'L') {
line 156:          ClassLoader e = p.a.a.a.u0.b.d1.b.b.e(e());
line 157:          str = str.substring(i + 1, i2 - 1);

```

There is 'ClassLoader' found in file 'p/a/a/a/v.java':

```

line 137:      r1 = r1.e;
line 138:      r1 = r1.getClassLoader();
line 139:      r2 = 47;

```

There is 'ClassLoader' found in file 'p/a/a/a/j0.java':

```

line 39:      L_0x002b:
line 40:          r2 = "classLoader";
line 41:          p.a0.c.k.e(r0, r2);

```

```

line 59:      r4 = p.a.a.a.u0.f.d.s(r3);
line 60:      r3 = "Name.special(\"<runtime module for $classLoader>\");";
line 61:      p.a0.c.k.d(r4, r3);

```

```

line 289:      r2 = p.t.class;
line 290:      r2 = r2.getClassLoader();
line 291:      r15 = new p.a.a.a.u0.a.p.j;
line 292:      r5 = new p.a.a.a.u0.b.d1.a.f;
line 293:      r3 = "stdlibClassLoader";
line 294:      p.a0.c.k.d(r2, r3);

```

There is 'ClassLoader' found in file 'p/a/a/s0.java':

```

line 6: public final class s0 {
line 7:     public final WeakReference<ClassLoader> a;
line 8:     public final int b;
line 9:
line 10:    public s0(ClassLoader classLoader) {
line 11:        k.e(classLoader, "classLoader");
line 12:        this.a = new WeakReference(classLoader);
line 13:        this.b = System.identityHashCode(classLoader);
line 14:    }

```

```

line 16:    public boolean equals(Object obj) {
line 17:        return (obj instanceof s0) && ((ClassLoader) this.a.get()) ==
((ClassLoader) ((s0) obj).a.get());
line 18:    }

```

```

line 24:    public String toString() {
line 25:        ClassLoader classLoader = (ClassLoader) this.a.get();
line 26:        if (classLoader != null) {
line 27:            String classLoader2 = classLoader.toString();
line 28:            if (classLoader2 != null) {
line 29:                return classLoader2;
line 30:            }

```

There is 'ClassLoader' found in file 'p/a/a/r0.java':

```

line 183:
line 184:    public static final Class<?> h(ClassLoader classLoader, p.a.a.a.u0.f.a
aVar, int i) {
line 185:        p.a.a.a.u0.a.p.c cVar = p.a.a.a.u0.a.p.c.m;

```

```

line 257:    }
line 258:    return r.c.b.d1(classLoader, b2);
line 259: }

```

```

line 274:        p.a.a.a.u0.j.t.g gVar = (p.a.a.a.u0.j.t.g) entry.getValue();
line 275:        ClassLoader classLoader = j.getClassLoader();
line 276:        k.d(classLoader, "annotationClass.classLoader");
line 277:        Object k = k(gVar, classLoader);
line 278:        Object jVar = k != null ? new p.j(dVar.h(), k) : null;

```

```

line 314:
line 315:    public static final Object k(p.a.a.a.u0.j.t.g<?> gVar, ClassLoader
classLoader) {
line 316:        if (gVar instanceof p.a.a.a.u0.j.t.a) {

```



```

line 322:         for (p.a.a.a.u0.j.t.g k : iterable) {
line 323:             arrayList.add(k(k, classLoader));
line 324:         }

```

```

line 331:         p.a.a.a.u0.f.d dVar = (p.a.a.a.u0.f.d) jVar.b;
line 332:         Class h = h(classLoader, aVar, 0);
line 333:         if (h != null) {

```

```

line 340:             p.a.a.a.u0.j.t.f fVar = ((p.a.a.a.u0.j.t.t.a.b) aVar2).a;
line 341:             return h(classLoader, fVar.a, fVar.b);
line 342:         } else if (aVar2 instanceof p.a.a.a.u0.j.t.t.a.a) {

```

There is '**ClassLoader**' found in file '['p/a/a/a/u0/a/a.java'](#):

```

line 29:         Class cls = a.class;
line 30:         ServiceLoader load = ServiceLoader.load(cls,
cls.getClassLoader());
line 31:         k.d(load, "implementations");

```

There is '**ClassLoader**' found in file '['p/a/a/a/u0/l/l.java'](#):

```

line 277:         Class cls = h.class;
line 278:         c = k.c0(ServiceLoader.load(cls, cls.getClassLoader()));
line 279:         a aVar = new a();

```

There is '**ClassLoader**' found in file '['p/a/a/a/u0/b/y0.java'](#):

```

line 517:         k = hVar;
line 518:         Iterator it = ServiceLoader.load(cls,
cls.getClassLoader()).iterator();
line 519:         o = it.hasNext() ? (p.a.a.a.u0.n.h) it.next() : p.a.a.a.u0.n.h.a.a;

```

There is '**ClassLoader**' found in file '['p/a/a/a/u0/b/d1/a/d.java'](#):

```

line 14: public final class d implements n {
line 15:     public final ClassLoader a;
line 16:
line 17:     public d(ClassLoader classLoader) {
line 18:         k.e(classLoader, "classLoader");
line 19:         this.a = classLoader;
line 20:     }

```

There is 'ClassLoader' found in file 'p/a/a/a/u0/b/d1/a/f.java':

```

line 12:    public final d a = new d();
line 13:    public final ClassLoader b;
line 14:
line 15:    public f(ClassLoader classLoader) {
line 16:        p.a0.c.k.e(classLoader, "classLoader");
line 17:        this.b = classLoader;
line 18:    }

```

There is 'ClassLoader' found in file 'p/a/a/a/u0/b/d1/b/b.java':

```

line 179:
line 180:    public static final ClassLoader e(Class<?> cls) {
line 181:        k.e(cls, "$this$safeClassLoader");
line 182:        ClassLoader classLoader = cls.getClassLoader();
line 183:        if (classLoader != null) {
line 184:            return classLoader;
line 185:        }
line 186:        classLoader = ClassLoader.getSystemClassLoader();
line 187:        k.d(classLoader, "ClassLoader.getSystemClassLoader()");
line 188:        return classLoader;
line 189:    }

```

There is 'ClassLoader' found in file 'p/a/a/a/u0/k/b/f0/d.java':

```

line 8:        k.e(str, "path");
line 9:        ClassLoader classLoader = d.class.getClassLoader();
line 10:        if (classLoader != null) {
line 11:            InputStream resourceAsStream =
classLoader.getResourceAsStream(str);
line 12:            if (resourceAsStream != null) {

```

```

line 15:        }
line 16:        return ClassLoader.getSystemResourceAsStream(str);
line 17:    }

```

There is 'ClassLoader' found in file 'p/x/j/a/a.java':

```

line 54:            try {
line 55:                p.x.j.a.f.a aVar2 = new
p.x.j.a.f.a(Class.class.getDeclaredMethod("getModule", new Class[0]),
getClass().getClassLoader().loadClass("java.lang.Module").getDeclaredMethod("getDescrip
tor", new Class[0]),
getClass().getClassLoader().loadClass("java.lang.module.ModuleDescriptor").getDeclaredM
ethod("name", new Class[0]));
line 56:                f.b = aVar2;

```

There is 'ClassLoader' found in file 'p/y/b.java':

```
line 51:      r3 = "ClassCastException(\"Inst...baseTypeCL\").initCause(e)";
line 52:      r4 = ", base type classloader: ";
line 53:      r5 = "Instance classloader: ";
line 54:      r6 = "Class.forName(\"kotlin.in...entations\").newInstance()";
```

```
line 65:      r2 = r2.getClass();      Catch:{ ClassNotFoundException -> 0x0096 }
line 66:      r2 = r2.getClassLoader();    Catch:{ ClassNotFoundException ->
0x0096 }
line 67:      r8 = r0.getClassLoader();    Catch:{ ClassNotFoundException ->
0x0096 }
line 68:      r9 = new java.lang.ClassCastException; Catch:{ ClassNotFoundException
-> 0x0096 }
```

```
line 89:      r2 = r2.getClass();      Catch:{ ClassNotFoundException -> 0x00d6 }
line 90:      r2 = r2.getClassLoader();    Catch:{ ClassNotFoundException ->
0x00d6 }
line 91:      r8 = r0.getClassLoader();    Catch:{ ClassNotFoundException ->
0x00d6 }
line 92:      r9 = new java.lang.ClassCastException; Catch:{ ClassNotFoundException
-> 0x00d6 }
```

```
line 117:     r1 = r1.getClass();      Catch:{ ClassNotFoundException -> 0x011c }
line 118:     r1 = r1.getClassLoader();    Catch:{ ClassNotFoundException ->
0x011c }
line 119:     r7 = r0.getClassLoader();    Catch:{ ClassNotFoundException ->
0x011c }
line 120:     r8 = new java.lang.ClassCastException;      Catch:{
ClassNotFoundException -> 0x011c }
```

```
line 142:     r1 = r1.getClass();      Catch:{ ClassNotFoundException -> 0x015c }
line 143:     r1 = r1.getClassLoader();    Catch:{ ClassNotFoundException ->
0x015c }
line 144:     r0 = r0.getClassLoader();    Catch:{ ClassNotFoundException ->
0x015c }
line 145:     r6 = new java.lang.ClassCastException;      Catch:{
ClassNotFoundException -> 0x015c }
```

Reference:

- <https://developer.android.com/reference/java/lang/ClassLoader.html>
- <https://developer.android.com/reference/dalvik/system/DexClassLoader.html>
- <https://developer.android.com/reference/java/security/SecureClassLoader.html>
- <https://developer.android.com/reference/java/net/URLClassLoader.html>

OBJECT DESERIALIZATION FOUND [M7] [CWE-502] [SAST]

WARNING

Description:

Object deserialization performed on an untrusted resource (e.g. user-supplied input or external storage), can be dangerous if the data for deserialization is tampered by an attacker.

Example of insecure code:

```
bundle.putSerializable("exampleClass", exampleOfSerializabledClass);
exampleOfSerializabledClass = bundle.getSerializable("exampleClass");
```

Example of secure code:

```
// Use only serialization when you have the control over data
```

Details:

There is '**implements Serializable**' found in file '[ua/gov/diia/app/models/AuthMethodFlow.java](#)':

```
line 10: @Keep
line 11: public abstract class AuthMethodFlow implements Serializable {
line 12:
```

There is '**implements Serializable**' found in file '[ua/gov/diia/app/models/vaccination/VaccinationUserDetailsAddress.java](#)':

```
line 10: @m(generateAdapter = true)
line 11: public final class VaccinationUserDetailsAddress implements Serializable {
line 12:     public final String a;
```

There is '**implements Serializable**' found in file '[d0/a/a/a/j.java](#)':

```
line 6:
line 7: public final class j implements Serializable {
line 8:     public byte[] a;
```

There is '**implements Serializable**' found in file '[d0/a/a/a/g.java](#)':

```
line 7:
line 8: public final class g implements Serializable {
line 9:     public byte[] a;
```

There is '**implements Serializable**' found in file '[g0/a/f/b/h/b.java](#)':

```
line 8:
line 9: public class b implements Serializable {
line 10:     public final Map<Integer, a> a = new TreeMap();
```

There is 'implements Serializable' found in file 'g0/a/f/b/h/c.java':

```
line 4:
line 5: public class c implements Serializable, Cloneable {
line 6:     public u a;
```

There is 'implements Serializable' found in file 'g0/a/f/b/h/u.java':

```
line 5:
line 6: public final class u implements Serializable {
line 7:     public final int a;
```

There is 'implements Serializable' found in file 'g0/a/f/b/h/a.java':

```
line 14:
line 15: public final class a implements Serializable {
line 16:     public transient k a;
```

There is 'implements Serializable' found in file 'g0/c/i.java':

```
line 28:
line 29:     public static class a extends h implements Serializable {
line 30:         public short a;
```

There is 'implements Serializable' found in file 'g0/c/r/b.java':

```
line 14:
line 15: public class b extends s implements Serializable {
line 16:     public static final Logger j = Logger.getLogger("org.jmrted");
```

There is 'implements Serializable' found in file 'g0/c/r/n.java':

```
line 6:
line 7: public abstract class n implements Serializable {
line 8:     public transient AlgorithmParameterSpec a;
```

There is 'implements Serializable' found in file 'g0/c/r/p.java':

```
line 13:
line 14: public class p implements Serializable {
line 15:     public b a;
```

There is **'implements Serializable'** found in file `'g0/c/r/e.java'`:

```
line 12:
line 13: public class e extends s implements Serializable {
line 14:     public static final Logger i = Logger.getLogger("org.jmrted");
```

There is **'implements Serializable'** found in file `'g0/c/r/s.java'`:

```
line 24:
line 25: public abstract class s implements Serializable, c {
line 26:     public static final Logger h = Logger.getLogger("org.jmrted.protocol");
```

There is **'implements Serializable'** found in file `'g0/c/q/b.java'`:

```
line 5:
line 6: public abstract class b implements Serializable {
line 7:     static {
```

There is **'implements Serializable'** found in file `'g0/c/q/d.java'`:

```
line 8:
line 9: public class d implements Serializable {
line 10:     public Set<k> a = new HashSet();
```

There is **'implements Serializable'** found in file `'g0/c/q/a.java'`:

```
line 4:
line 5: public abstract class a implements Serializable {
line 6: }
```

There is **'implements Serializable'** found in file `'g0/c/p/a.java'`:

```
line 9:
line 10: public class a implements Serializable {
line 11:     public byte[] a;
```

```
line 13:
line 14:     public static class a implements Serializable {
line 15:         public int a;
```

There is 'implements Serializable' found in file 'j\$/util/concurrent/ConcurrentHashMap.java':

```
line 62:
line 63:     static class n<K, V> extends ReentrantLock implements Serializable {
line 64:         n(float f) {
```

There is 'implements Serializable' found in file 'j\$/time/c.java':

```
line 6:
line 7:     static final class a extends c implements Serializable {
line 8:         private final ZoneId a;
```

There is 'implements Serializable' found in file 'j\$/time/i.java':

```
line 7:
line 8: final class i extends ZoneId implements Serializable {
line 9:     private final String b;
```

There is 'implements Serializable' found in file 'j\$/time/ZoneId.java':

```
line 10:
line 11: public abstract class ZoneId implements Serializable {
line 12:     public static final Map a;
```

There is 'implements Serializable' found in file 'j\$/time/temporal/w.java':

```
line 5:
line 6: public final class w implements Serializable {
line 7:     private final long a;
```

There is 'implements Serializable' found in file 'j\$/time/temporal/x.java':

```
line 17:
line 18: public final class x implements Serializable {
line 19:     private static final ConcurrentMap g = new ConcurrentHashMap(4, 0.75f, 2);
```

There is 'implements Serializable' found in file 'j\$/time/chrono/k.java':

```
line 18:
line 19: public final class k extends a implements Serializable {
line 20:     public static final k a = new k();
```

There is 'implements Serializable' found in file '\$/time/zone/b.java':

```
line 4:
line 5: public final class b implements Serializable {
line 6: }
```

There is 'implements Serializable' found in file '\$/time/zone/c.java':

```
line 17:
line 18: public final class c implements Serializable {
line 19:     private static final long[] i = new long[0];
```

There is 'implements Serializable' found in file 'r/n/i.java':

```
line 4:
line 5: public class i<T> extends b implements Serializable {
line 6:     public T b;
```

There is 'implements Serializable' found in file 'z/a/a/a.java':

```
line 4:
line 5: public class a implements Serializable {
line 6:     public final String a;
```

There is 'implements Serializable' found in file 'z/a/a/a/f/g.java':

```
line 5:
line 6: public final class g implements Serializable {
line 7:     public final boolean a;
```

There is 'implements Serializable' found in file 'a0/g/a/i/c/d.java':

```
line 15:
line 16:     public static class b implements Serializable, Comparator<Entry<String,
Integer>>, j$.util.Comparator {
line 17:         public b(a aVar) {
```

There is 'implements Serializable' found in file 'a0/f/g/u/c/a.java':

```
line 41:
line 42:     public static final class c implements Serializable, Comparator<b>,
j$.util.Comparator {
line 43:         public c(a aVar) {
```


There is 'implements Serializable' found in file 'a0/f/g/y/c/e.java':

```
line 20:
line 21:     public static final class b implements Serializable, Comparator<d>,
j$.util.Comparator {
line 22:         public final float a;
```

```
line 55:
line 56:     public static final class c implements Serializable, Comparator<d>,
j$.util.Comparator {
line 57:         public final float a;
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/g/s6.java':

```
line 14:
line 15: public abstract class s6<E> extends AbstractCollection<E> implements
Serializable, Collection {
line 16:     public static final Object[] a = new Object[0];
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/f/c.java':

```
line 14:
line 15: public abstract class c<E> extends AbstractCollection<E> implements
Serializable, Collection {
line 16:     public static final Object[] a = new Object[0];
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/h/a0.java':

```
line 16:
line 17: public final class a0<K, V> extends AbstractMap<K, V> implements Serializable,
Map {
line 18:     public static final Object j = new Object();
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/h/c0.java':

```
line 5:
line 6: public final class c0<K, V> extends o<K, V> implements Serializable {
line 7:     @NullableDecl
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/h/n.java':

```
line 8:
line 9: public abstract class n<K, V> extends p<K, V> implements Serializable {
line 10:     public transient Map<K, Collection<V>> c;
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/h/b0.java':

```
line 14:
line 15: public abstract class b0<E> extends AbstractCollection<E> implements
Serializable, Collection {
line 16:     public static final Object[] a = new Object[0];
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/b/y.java':

```
line 10:
line 11: public abstract class y implements Serializable, Iterable<Byte>, Iterable {
line 12:     public static final y b = new c0(a1.b);
```

There is 'implements Serializable' found in file 'a0/f/a/c/i/k/n2.java':

```
line 13:
line 14: public abstract class n2 implements Serializable, Iterable<Byte>, Iterable {
line 15:     public static final n2 b = new s2(r3.b);
```

There is 'implements Serializable' found in file 'a0/f/e/f0/s.java':

```
line 28:
line 29: public final class s<K, V> extends AbstractMap<K, V> implements Serializable,
Map {
line 30:     public static final Comparator<Comparable> h = new a();
```

There is 'implements Serializable' found in file 'a0/j/a/w.java':

```
line 29:
line 30: public final class w<K, V> extends AbstractMap<K, V> implements Serializable,
Map {
line 31:     public static final Comparator<Comparable> i = new a();
```

There is 'implements Serializable' found in file 'f0/i.java':

```
line 9:
line 10: public class i implements Serializable, Comparable<i> {
line 11:     public static final char[] d = new char[]{'0', '1', '2', '3', '4', '5',
'6', '7', '8', '9', 'a', 'b', 'c', 'd', 'e', 'f'};
```

There is **'implements Serializable'** found in file ['com/huawei/hms/update/ui/UpdateBean.java'](#):

```
line 5:
line 6: public class UpdateBean implements Serializable {
line 7:     public boolean a;
```

There is **'implements Serializable'** found in file

['com/huawei/hms/mlsdk/productvisionsearch/MLVisionSearchProduct.java'](#):

```
line 20:
line 21:     public static final class a implements Serializable,
Comparator<MLVisionSearchProductImage>, j$.util.Comparator {
line 22:         private a() {
```

There is **'implements Serializable'** found in file ['com/huawei/hms/push/RemoteMessage.java'](#):

```
line 163:
line 164:     public static class Notification implements Serializable {
line 165:         public final long[] A;
```

There is **'implements Serializable'** found in file ['com/huawei/updatesdk/service/appmgr/bean/ApkUpgradeInfo.java'](#):

```
line 8:
line 9: public class ApkUpgradeInfo extends b implements Serializable, Parcelable {
line 10:     public static final int APP_MUST_UPDATE = 1;
```

There is **'implements Serializable'** found in file ['e/a/a/a/d0/j0/c.java'](#):

```
line 4:
line 5: public class c<T> extends e implements Serializable {
line 6:     public final T b;
```

There is **'implements Serializable'** found in file ['e/a/a/a/a0/s/a.java'](#):

```
line 4:
line 5: public final class a implements Serializable {
line 6:     /* JADX WARNING: Missing block: B:4:0x0010, code skipped:
```

There is **'implements Serializable'** found in file ['p/n.java'](#):

```
line 5:
line 6: public final class n<A, B, C> implements Serializable {
line 7:     public final A a;
```

There is 'implements Serializable' found in file 'p/j.java':

```
line 5:  
line 6: public final class j<A, B> implements Serializable {  
line 7:     public final A a;
```

There is 'implements Serializable' found in file 'p/k.java':

```
line 4:  
line 5: public final class k<T> implements Serializable {  
line 6:  
line 7:     public static final class a implements Serializable {  
line 8:         public final Throwable a;
```

There is 'implements Serializable' found in file 'p/a/a/a/u0/h/h.java':

```
line 12:  
line 13: public abstract class h extends a implements Serializable {  
line 14:
```

There is 'implements Serializable' found in file 'p/a/a/a/u0/c/a/e.java':

```
line 5:  
line 6: public final class e implements Serializable {  
line 7:     public static final e c = new e(-1, -1);
```

There is 'implements Serializable' found in file 'p/a/a/a/v0/e.java':

```
line 5:  
line 6: public final class e<K, V> implements Serializable {  
line 7:     public final K a;
```

There is 'implements Serializable' found in file 'p/a0/c/w.java':

```
line 4:  
line 5: public final class w<T> implements Serializable {  
line 6:     public T a;
```

There is 'implements Serializable' found in file 'p/a0/c/v.java':

```
line 4:  
line 5: public final class v implements Serializable {  
line 6:     public int a;
```

There is **'implements Serializable'** found in file `'p/a0/c/c.java'`:

```
line 20:
line 21:     public static class a implements Serializable {
line 22:         public static final a a = new a();
```

There is **'implements Serializable'** found in file `'p/a0/c/u.java'`:

```
line 4:
line 5: public final class u implements Serializable {
line 6:     public boolean a;
```

There is **'implements Serializable'** found in file `'p/f0/e.java'`:

```
line 8:
line 9: public final class e implements Serializable {
line 10:     public final Pattern a;
```

There is **'getSerializableExtra()'** found in file `'cards/pay/paycardsrecognizer/sdk/ui/ScanCardActivity.java'`:

```
line 22:         String str =
"cards.pay.paycardsrecognizer.sdk.ui.ScanCardActivity.SCAN_CARD_REQUEST";
line 23:         Serializable serializable = (g) getIntent().getSerializableExtra(str);
line 24:         if (serializable == null) {
```

There is **'getSerializableExtra()'** found in file `'a0/k/a/d.java'`:

```
line 21:             Intent intent = activityResult.b;
line 22:             obj = intent != null ?
intent.getSerializableExtra("RESULT_PAYCARDS_CARD") : null;
line 23:             Objects.requireNonNull(obj, "null cannot be cast to non-null type
cards.pay.paycardsrecognizer.sdk.Card");
```

There is **'getSerializableExtra()'** found in file `'com/huawei/hms/ui/SafeIntent.java'`:

```
line 208:
line 209:     public Serializable getSerializableExtra(String str) {
line 210:         try {
line 211:             return super.getSerializableExtra(str);
line 212:         } catch (Exception unused) {
```

There is '`getSerializableExtra()`' found in file '`com.huawei/hms/availableupdate/n.java`':

```
line 187:          if (intent != null) {
line 188:              UpdateBean updateBean = (UpdateBean)
intent.getSerializableExtra(BridgeActivity.EXTRA_DELEGATE_UPDATE_INFO);
line 189:              this.c = updateBean;
```

There is '`getSerializableExtra()`' found in file '`com.huawei/hms/availableupdate/f0.java`':

```
line 172:          if (intExtra == 7) {
line 173:              Serializable serializableExtra =
intent.getSerializableExtra(UpdateKey.INFO);
line 174:              if (serializableExtra instanceof ApkUpgradeInfo) {
```

There is '`getSerializableExtra()`' found in file '`com.huawei/hms/common/internal/safeparcel/SafeParcelableSerializer.java`':

```
line 48:      public static <S extends SafeParcelable> ArrayList<S>
deserializeIterableFromIntentExtra(Intent intent, String str, Creator<S> creator) {
line 49:          ArrayList arrayList = (ArrayList) intent.getSerializableExtra(str);
line 50:          if (arrayList == null) {
```

There is '`getSerializableExtra()`' found in file '`com.huawei/hms/api/HuaweiApiClientImpl.java`':

```
line 160:          if (intExtra == 7) {
line 161:              ApkUpgradeInfo apkUpgradeInfo = (ApkUpgradeInfo)
intent.getSerializableExtra(UpdateKey.INFO);
line 162:              if (apkUpgradeInfo != null) {
```

There is '`getSerializable()`' found in file '`z/a/a/a/ff.java`':

```
line 99:          if (bundle != null) {
line 100:              this.T2 = (g)
bundle.getSerializable("cards.pay.paycardsrecognizer.sdk.ui.ScanCardActivity.SCAN_CARD_
REQUEST");
line 101:          }
```

There is '`getSerializable()`' found in file '`com.huawei/hms/common/internal/safeparcel/SafeParcelableSerializer.java`':

```
line 35:      }
line 36:      ArrayList arrayList = (ArrayList) bundle.getSerializable(str);
line 37:      if (arrayList == null) {
```

There is '`getSerializable()`' found in file '`com.huawei/updatesdk/service/otaupdate/AppUpdateActivity.java`':

```
line 741:         try {
line 742:             serializable = bundle.getSerializable("app_update_parm");
line 743:             this.r = bundle.getBoolean("is_apptouch", false);
```

Reference:

- <https://developer.android.com/reference/android/os/Bundle.html>

Software Composition Analysis Test

The mobile application uses the following external and native libraries:

External

- ua.tranzzo
- net.sf
- d0.a
- g0.a
- g0.c
- g0.d
- g0.b
- org.tensorflow
- c0.a
- c0.b
- j\$.util
- j\$.time
- j\$.lang
- j\$.com
- kotlinx.coroutines
- cards.pay
- okhttp3.internal
- defpackage
- me.leolin
- a0.i
- a0.g
- a0.a
- a0.f
- a0.h
- a0.j
- a0.c
- a0.d
- a0.e
- a0.b
- a0.k

Android Native

- androidx.transition
- androidx.room
- androidx.core
- androidx.drawerlayout
- androidx.versionedparcelable
- androidx.activity
- androidx.viewpager
- androidx.lifecycle
- androidx.navigation
- androidx.emoji
- androidx.legacy
- androidx.annotation
- androidx.multidex
- androidx.browser
- androidx.biometric
- androidx.fragment
- androidx.recyclerview
- androidx.work
- androidx.appcompat
- androidx.viewpager2
- androidx.customview
- androidx.databinding
- androidx.slidingpanelayout
- androidx.coordinatorlayout
- androidx.savedstate
- androidx.cardview
- androidx.constraintlayout
- androidx.media
- kotlin
- android.support

- b0.a
- br.com
- com.huawei
- com.otaliastudios
- com.androidadvance
- com.shockwave
- com.bumptech
- com.iit
- com.tranzzo

GDPR Compliance Test

If the application processes or stores any PII of EU residents, the following requirements of [EU GDPR](#) may apply:

Privacy Policy

Privacy Policy was not found in application

Misconfiguration or weakness

Mobile App External Communications

Static mobile application security test revealed the following remote hosts where the mobile application may send or receive data:

Hostname	IP:Port	SSL Encryption	Websec Server Security	Domain Domain Security
api2.dii.gov.ua:443	46.164.149.116:443	B	N	N/A
dii.gov.ua:443	46.164.149.121:443	A+	N/A	N/A
greenrobot.org:443	85.13.129.145:443	B	B-	N/A
www.huawei.com:443	23.41.209.125:443	B+	A	N/A
dii.app:443	46.164.149.116:443	B+	N	N/A
dii-test.tranzzo.com:443	172.67.15.199:443	A+	C+	N/A
thedigital.gov.ua:443	46.164.149.104:443	A+	N/A	N/A