

## Android o2 Business 1.2.0 Open Redirect

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**o2 Business for Android version 1.2.0 suffers from an open redirection vulnerability.**

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<https://www.rcesecurity.com>

#### 1. ADVISORY INFORMATION

Product: o2 Business for Android  
Vendor URL: <https://play.google.com/store/apps/details?id=telefonica.de.o2business>  
Type: Open Redirect [CWE-601]  
Date found: 2020-04-16  
Date published: 2020-07-01  
CVSSv3 Score: 3.3 (CVSS:3.0/NV:L/AC:L/PR:N/UI:R/S:U/C:N/I:L/A:N)  
CVE: CVE-2020-11882

#### 2. CREDITS

This vulnerability was discovered and researched by Julien Ahrens from RCE Security.

#### 3. VERSIONS AFFECTED

o2 Business App for Android 1.2.0

#### 4. INTRODUCTION

Kommunikation ist Ihr tgliches Sprungbrett in die Geschftswelt. Und mit der neuen O2 Business App haben Sie alle wichtigen Details stets vor Augen. Verfolgen Sie investierte Gesprchszeiten zurck und sehen Sie verfgbare Kommunikations-Kapazitten vorher. Vom aktuellen Stand des Inklusiv-Volumens, ber Einzelverbindungen und Tarifiedetails, bis zur lokalen Netz-Qualitt behalten Sie mit der O2 Business App immer und berall den Durchblick. Erfahren Sie jetzt mehr ber Ihren informativen Begleiter!

(from the vendor's homepage)

#### 5. VULNERABILITY DETAILS

The "O2 Business App" for Android exposes an activity to other apps called "canvas.myo2.SplashActivity". The purpose of this activity is to handle deeplinks which can be delivered to the app either via links or by directly calling the activity.

However, the app does not properly validate the format of deeplinks by just using str.contains() to verify the allowed host:

```
private boolean isVanityLink(String str) {
    return str.contains("https://o2.de") || str.contains("https://blau.de")
    || str.contains("https://e2e2.o2.de") ||
    str.contains("https://e2e2.blau.de");
}
```

```
private boolean isDeepLink(String str) {
    return str.contains("https://www.o2online.de")
    || str.contains("https://www.blau.de")
    || str.contains("https://e2e2.o2online.de")
    || str.contains("https://e2e2.blau.de")
    || str.contains(BuildConfig.PIRANHA_BASE_E2E2_URL)
    || str.contains("https://login.o2online.de")
    || str.contains("https://login-e2e2.blau.de")
    || str.contains("https://login.blau.de");
}
```

This can be abused by an attacker (malicious app) to redirect a user to any page and deliver any content to the user. An exemplary exploit could look like the following:

```
Intent i = new Intent();
i.setComponentName("telefonica.de.o2business", "canvas.myo2.SplashActivity");
Uri uri = Uri.parse("https://www.rcesecurity.com?dummy=https://o2.de");
i.setData(uri);
startActivity(i);
```

#### 6. RISK

A malicious app on the same device is able to exploit this vulnerability to lead the user to any webpage/content. The specific problem here is the assumed trust boundary between the user having the o2 Business app installed and what the app is actually doing/displaying to the user. So if the user sees the app being loaded and automatically redirecting to another page, it can be assumed that the loaded page is also trusted by the user.

#### 7. SOLUTION

Update the app to version 1.3.0

#### 8. REPORT TIMELINE

2020-04-16: Discovery of the vulnerability  
2020-04-16: Although Telefonica runs a VDP on Bugcrowd (<https://bugcrowd.com/telefonicaavdp>), I did not want to accept their non-disclosure terms, which is why I have tried to contact them directly via their official CERT contact.  
2020-04-16: Telefonica responds and asks for full vulnerability details  
2020-04-16: Send over the full advisory including a full PoC exploit.  
2020-04-16: Telefonica acknowledges the issue  
2020-04-16: CVE requested from MITRE  
2020-04-17: MITRE assigns CVE-2020-11882  
2020-06-03: No further communication from Telefonica. Mailed them again about the status of the fix.  
2020-06-03: Telefonica is still working on this issue and the fix is scheduled to be included in the next release.  
2020-06-04: Version 1.3.0 is released  
2020-07-01: Public disclosure.

#### 9. REFERENCES

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