

## Security Advisory Report - OBSO-2202-01

### pwnkit: Local Privilege Escalation in polkit's pkexec (CVE-2021-4034)

Release Date: 2022-01-29 19:31:01  
Last Update: 2022-05-18 14:46:38  
Version: 1.1

#### Summary

A local privilege escalation vulnerability was found on polkit's pkexec utility. The pkexec application is a setuid tool designed to allow unprivileged users to run commands as privileged users according to predefined policies. The current version of pkexec doesn't handle the calling parameters count correctly and ends trying to execute environment variables as commands. An attacker can leverage this by crafting environment variables in such a way it'll induce pkexec to execute arbitrary code. When successfully executed the attack can cause a local privilege escalation given unprivileged users administrative rights on the target machine.

The vulnerability is rated high.

For **Atos Unify products that are considered appliances** and are using embedded linux operating systems we are evaluating the impact of our products

**Atos Unify applications that are running on linux operation systems could be affected by this vulnerability.** Customers are advised to follow the instructions of the operating system providers and apply the patches provided.

Atos Unify products that are running on windows operation systems are not affected.

#### Details

The [Qualys Security Advisory](#) provides additional information about the vulnerability.

The exploitation of the vulnerability requires that a local user account is compromised.

The CVSS 3.1 rating is 7.8

[CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H](#)

## Affected Products

Atos Unify products that are considered appliances with an embedded linux operating systems are under investigation.

Atos **Unify applications that are installed on a linux operating systems** that is not embedded within the product are considered as **confirmed not affected**. Customer should follow the instructions of the linux operating system provider and apply the patches that are provided. Atos Unify will not deliver updates for linux based applications.

Atos Unify applications that are installed on Windows operating systems are not affected.

### Products confirmed affected

#### *Linux based appliances*

Atos Unify OpenScape Voice (simplex deployments) V9 an V10 (hotfix provided in V9R4.48.16 (available), planned in V10R2.14.0 for 08/2022 / see OSV note)

Atos Unify OpenScape Voice (duplex deployments) V9 an V10 (hotfix provided in V9R4.48.16 (available), planned in V10R2.14.0 for 08/2022 / see OSV note)

Atos Unify OpenScape First Response ESRP V9 (A hotfix is planned, see OSV note)

Atos Unify OpenScape Xpert Clients V6 and V7 (Fixed in V7 R4) (available)

Atos Unify OpenScape Contact Media Service V10,V11 up to V11 R0.0.2 (Fixed in V11 R0.1.0) (available)

#### *Solutions and Cloud Services*

Circuit (fixed in Sprint 164)

Atos Unify OpenScape Enterprise Express V9 and V10 (refer to OpenScape Voice evaluation)

### Products confirmed not affected

#### *Linux based appliances*

Atos Unify OpenScape Business V3 (OpenScape Business X Systems)

Atos Unify OpenScape 4000 V8 and V10 Platform

Atos Unify OpenScape 4000 V8 and V10 Assistant

Atos Unify OpenScape 4000 V8 and V10 CSTA

Atos Unify OpenScape 4000 V8 and V10 Loadware

Atos Unify OpenScape Cordless IP V2

Atos Unify OpenScape First Response BCF V10

Atos Unify OpenScape First Response ESAAP V1

Atos Unify OpenScape Alarm Response Professional V4 and V5

Atos Unify Virtual Care Collaboration Service V1

Atos Unify OpenScape Branch V9 and V10

Atos Unify OpenScape SBC V9 and V10

Atos Unify OpenScape Desk Phones CP SIP  
Atos Unify OpenScape Desk Phones CP HFA  
Atos Unify OpenScape Desk Phones IP SIP V3  
Atos Unify OpenScape Desk Phones IP HFA V3  
OpenStage HFA V3  
OpenStage SIP V3  
Atos Unify OpenScape WLAN Phone WL3 and WL4  
Atos Unify OpenScape DECT Phone S5 and S6  
Atos Unify OpenScape DECT Phone SL5 and SL6  
Atos Unify OpenScape WLAN Phone Wireless Service Gateway

*Linux based applications (follow instructions of the linux operating system providers)*

Atos Unify OpenScape Business V3 (OpenScape Business S Server)  
Atos Unify OpenScape First Response PSS V1  
Atos Unify OpenScape First Response MSBF V2  
Atos Unify OpenScape Xpert MLC V6 and V7  
Atos Unify OpenScape UC Application V9 and V10  
Atos Unify OpenScape 4000 Manager V8 and V10  
Atos Unify OpenScape Common Management Platform V7 and V10  
Atos Unify OpenScape Composer V2  
Atos Unify OpenScape Voice Survival Authority  
Atos Unify OpenScape Backup & Recovery Services

*Applications that may be deployed on Windows or Linux (for Linux deployments check patches of linux providers)*

HiPath CAP V3.0  
Atos Unify OpenScape License Management CLA/CLM

*Windows based applications*

Atos Unify OpenScape Xpert System Manager V6 and V7  
Atos Unify OpenScape Contact Center V10,V11  
Atos Unify OpenScape Contact Center Extensions V3  
Atos Unify OpenScape Fusion for Office V1 and V2  
Atos Unify OpenScape Extensions for MS Outlook V1 and V2  
Atos Unify OpenScape Fusion for Notes V1 and V2  
Atos Unify OpenScape Web Collaboration V7  
Atos Unify OpenScape Concierge V4  
Atos Unify OpenScape Xpressions V7  
Atos Unify OpenScape Personal Edition V7  
Atos Unify OpenScape Deployment Service V7 and V10  
Atos Unify OpenScape Fault Management V10, V11 and V12  
Atos Unify OpenScape Accounting Management V3, V4 and V5  
Atos Unify OpenScape Voice Trace Manager V8

AC Win SL V3  
HiPath DS-Win V4  
Atos Unify OpenScape Sesap V2

### **Products under investigation**

Atos Unify OpenScape First GEMMA V2 and V3

### **Additional notes for planned fixes and updates:**

OpenScape Voice V9 and V10 (simplex and duplex deployments) and OpenScape First Response ESRP V9

- A hotfix is planned that implements the [workaround suggested by Suse](#)

## **Recommended Actions**

### **Available workarounds:**

#### **For Linux based appliances**

Currently no workarounds are available.

#### **For Atos Unify applications using affected linux operating systems:**

- Check operating systems providers recommendation
- Apply the patches that are provided

## **References**

### **External References**

- <https://nvd.nist.gov/vuln/detail/CVE-2021-4034>
- <https://www.qualys.com/2022/01/25/cve-2021-4034/pwnkit.txt>
- <https://blog.qualys.com/vulnerabilities-threat-research/2022/01/25/pwnkit-local-privilege-escalation-vulnerability-discovered-in-polkits-pkexec-cve-2021-4034>
- <https://security-tracker.debian.org/tracker/CVE-2021-4034>
- <https://ubuntu.com/security/CVE-2021-4034>
- <https://www.suse.com/security/cve/CVE-2021-4034.html>
- <https://www.suse.com/support/kb/doc/?id=000020564>

## Version Change History

Version	Date	Description
1.0	03.02.2022	- Initial release
1.1	18.05.2022	- OpenScape Voice hotfix V9R4.48.16 (available), hotfix planned in V10R2.14.0 for 08/2022 - OpenScape Contact Media Service fixed in V11 R0.1.0 - OpenScape Xpert Clients fixed in V7 R4

Advisory: OBSO-2202-01, status: ready for review

Security Advisories are released as part of Atos Unify's Vulnerability Intelligence Process. For more information see <https://www.unify.com/security/advisories>.

Contact and Disclaimer

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