Security Advisory Report - OBSO-1911-01

Impact of Microsoft Advisory ADV190023 for Unify Customers (Microsoft Guidance for Enabling LDAP Channel Binding and LDAP Signing)

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Summary

LDAP (Lightweight Directory Access Protocol) is used to connect to directory services, e.g. to import user data or connect to a phone book to facilitate dialing.

Microsoft has released Security Advisory ADV190023. It announces that Microsoft will change the default settings for LDAP as part of a security update in March 2020. Microsoft advises customers to activate the settings that are enforced in 2020 ahead of time and validate the impact on the existing customer environment.

This Informational Advisory provides guidance and recommendations for Unify Customers about the expected impact of the Microsoft Security Advisory ADV190023.

Microsoft intends to release a security update on Windows Update to enable LDAP channel binding and LDAP signing hardening changes and anticipate this update will be available in March 2020. The purpose is to enforce security settings when using LDAP in a Microsoft environment in order to prevent that flaws are exploited to gain administrative access to the Windows environment.

Microsoft recommendation:

"...we strongly advise customers to take the following steps at the earliest opportunity":

- Configure your systems to help make LDAP channel binding and LDAP signing on Active Directory Domain Controllers more secure.
- Find and fix any application compatibility issues in the environment.

Unify recommendation:

Make sure that you are using LDAPS (LDAP over TLS) when connecting to a Microsoft LDAP Servers. Validate your solution environment. Follow the Microsoft instructions given in Microsoft Advisory ADV190023. Test the changed configuration settings ahead of time. The subsequent sections provide information on Unify products that have LDAP interfaces and their current status of supporting LDAPS.
Details

Impact on Unify products:

Unify is investigating the impact for Unify products using LDAP to connect to a Microsoft Windows Server.

The following impact is expected:

- LDAP connections using TCP can no longer be established after LDAP channel signing is enforced.
- Customers will have to use LDAPS (LDAP over TLS) to connect to Microsoft LDAP servers.

Latest Update (2020-06-10):

Products affected (version LDAPS is supported or higher):
- OpenScape Business (UC Suite (LDAP Client) / V3 R0)
- OpenScape Business (Active Directory Services integration / V2 R7)
- OpenScape Fault Management (V10R0.07.13 and V11R0.01.01)
- OpenStage/OpenScape Desk Phone IP HFA (V3R0.46.0)
- OpenScape Alarm Response Pro (V4R1)

Update (2020-03-27):

Microsoft has updated the Advisory:

On March 10, 2020, Windows updates will add options for administrators to harden the configurations for LDAP channel binding on Active Directory domain controllers.

The updates add:

- Domain controller: LDAP server channel binding token requirements group policy.

Important: The March 10, 2020 and updates in the foreseeable future will not make changes to LDAP signing or LDAP channel binding policies or their registry equivalent on new or existing domain controllers.

Products affected (LDAPS is not yet supported):
- OpenStage/OpenScape Desk Phone IP HFA (planned for V3R0.46.0 in Q2/2020)
Affected Products

Products affected (version LDAPS is supported or higher):

OpenScape 4000 (V7 R2.23 and V8 R0)
OpenScape Business (UC Suite (LDAP Client) / V3 R0)
OpenScape Business (Active Directory Services integration / V2R7)
OpenScape UC (V7 R1)
OpenScape Contact Center (V9 R2 FP1)
OpenScape Contact Center Extensions (V3 R1)
OpenScape Concierge (V4 R0)
OpenScape Xpressions (V7 R1)
OpenScape Deployment Service (V7 R3)
OpenScape Common Management Portal (V7 R4)
OpenScape Accounting Management (V3 R0.5)
OpenScape Fault Management (V10R0.07.13 and V11R0.01.01)
OpenScape Xpert System Manager (V6 R0)
OpenStage/OpenScape Desk Phone IP SIP (V3 R5.6.0)
OpenStage/OpenScape Desk Phone IP HFA (V3R0.46.0)
OpenScape Desk Phone CP SIP (V1 R4.7.0)
OpenScape Desk Phone CP HFA (V1 R2.4.0)
OpenScape Cordless IP (V2 R1)
OpenScape Desktop Client Personal Edition (V7 R1.47.67)
Circuit (since Jan 11th 2020)
OpenScape Alarm Response Pro (V4R1)

Products affected (LDAPS is not yet supported):

OpenScape Business (Integrated LDAP Client for Telephony /no fix planned)
Hipath Cordless IP (no fix planned)

Products not affected:

All products that are not explicitly listed above do not have an LDAP Interface.

Recommended Actions

Unify recommendation:
Investigate your solution environment in order to evaluate the impact:

- Check whether you are using LDAP within the respected product, the Affected Products section provides a list of Unify products that have LDAP interfaces.
- Check whether LDAPS (LDAP over TLS) is enabled to connect to the Microsoft LDAP Server.
- If LDAPS is not yet implemented plan for the migration ahead of time.
- Follow the Microsoft instructions on how to configure the settings for LDAP Signing and LDAP Channel Binding.
- Test LDAP connections after the migration.
If you experience issues after the migration report the issues via the established support channels.

If you need Migration Support for the implementation of LDAPS please contact your Unify Partner or your Atos Representative.

References

Additional information available from Microsoft

ADV190023 | Microsoft Guidance for Enabling LDAP Channel Binding and LDAP Signing

2020 LDAP channel binding and LDAP signing requirement for Windows
https://support.microsoft.com/en-us/help/4520412/2020-ldap-channel-binding

Domain controller: LDAP server signing requirements

How to add the LdapEnforceChannelBinding entry

CVE-2017-8563 | Windows Elevation of Privilege Vulnerability

Identifying Clear Text LDAP binds to your DC's

Other resources:

Advisory: OBSO-1911-01, status: general release
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