

API를 통해 Cisco Meeting Server에서 LDAP 사용자 구성

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소개

이 문서에서는 API(Application Programming Interface)를 통해 Cisco Meeting Server에서 LDAP(Lightweight Directory Access Protocol) 컨피그레이션에 대해 설명합니다.

사전 요구 사항

PostMan 앱

Cisco CMS(Meeting Server)

Microsoft Active Directory

요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

Cisco Meeting Server

Microsoft Active Directory

배경 정보

API를 통해 LDAP를 동기화하기 위한 높은 수준의 컨피그레이션 흐름

1단계: 아래에 설명된 대로 API를 통해 /ldapServers 매개 변수를 구성합니다.

1. LDAP 서버의 주소/포트 정보
2. 서버 액세스를 위한 사용자 이름 및 비밀번호
3. 비보안 ldap 보안

2단계: 아래에 설명된 대로 API를 통해 /ldapMappings 매개 변수를 구성합니다.

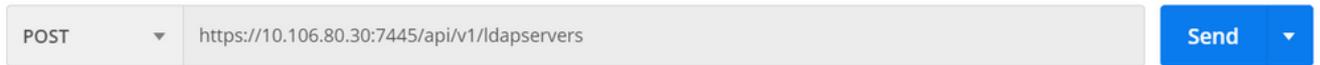
1. LDAP 사용자 속성 객체를 cms 해당 사용자 객체에
2. 예제 cms user jid는 cms 등의 \$sAMAccountName\$@domain.com에 매핑됩니다.

3단계: API를 통해 /ldapSources 매개변수를 구성하여 ldapServers 및 ldapMappings 개체를 연결합니다.

구성

1단계. /ldapServers 구성

1. ldapServer ID를 생성하는 /ldapServers에 대한 POST를 보냅니다. 추가 컨피그레이션에 고유한 /ldapServers ID를 사용합니다



2. POST에 대한 응답은 비슷한 형식으로 반환됩니다. <ldapServer id="7ca32cc4-389f-46f5-a1b0-0a468af291a4">

3. 아래 정보를 캡처하여 [CMS API 참조 설명서](#)에 따라 LDAP 서버 ID를 업데이트합니다.

Parameters	Type/Value	Description/Notes
address *	String	The address of the LDAP server to connect to.
portNumber *	Number	The TCP or TLS port number to connect to on the remote LDAP server.
username	String	The username to use when retrieving information from the LDAP server.
password	String	The password of the account associated with username.
secure *	true false	Whether to make a secure connection to the LDAP server. If "true" then TLS will be used; if "false", TCP will be used.

4. 매개 변수가 있는 샘플 POST 메서드

A screenshot of a REST client interface showing a POST request. The top bar shows a dropdown menu set to 'POST' and the URL 'https://10.106.80.30:7445/api/v1/ldapservers/7ca32cc4-389f-46f5-a1b0-0a468af291a4?address=10.106.80.4&name=...'. To the right is a blue 'Send' button with a dropdown arrow.

Below the URL bar, there are tabs for 'Params', 'Authorization', 'Headers (10)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. The 'Params' tab is selected.

Under the 'Params' tab, there is a section for 'Query Params' with a table:

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	address	10.106.80.4	
<input checked="" type="checkbox"/>	name	DOT4ADserver	
<input checked="" type="checkbox"/>	username	CN=Administrator,CN=Users,DC=S,DC=com	
<input checked="" type="checkbox"/>	portNumber	389	
<input checked="" type="checkbox"/>	secure	false	

5. GET을 수행하여 구성된 매개변수를 확인합니다

GET https://10.106.80.30:7445/api/v1/ldapServers/7ca32cc4-389f-46f5-a1b0-0a468af291a4

Params Authorization ● Headers (9) Body Pre-request Script Tests Settings

Body Cookies (1) Headers (15) Test Results Status: 200 OK

Pretty Raw Preview Visualize XML

```
1 <?xml version="1.0"?>
2 <ldapServer id="7ca32cc4-389f-46f5-a1b0-0a468af291a4">
3   <address>10.106.80.4</address>
4   <name>DOT4ADserver</name>
5   <username>CN=Administrator,CN=Users,DC=S,DC=com</username>
6   <portNumber>389</portNumber>
7   <secure>>false</secure>
8 </ldapServer>
```

2단계, /ldapMappings 구성

1. /ldapMappings에 대한 POST를 전송하여 /ldapMappings ID를 생성합니다./ldapMappings ID를 사용하고 아래 매개변수를 구성합니다.

POST https://10.106.80.30:7445/api/v1/ldapMappings Send

2. 아래 정보를 캡처하여 [CMS API 참조 설명서](#)에 따라 LDAP 매핑 ID를 업데이트합니다.

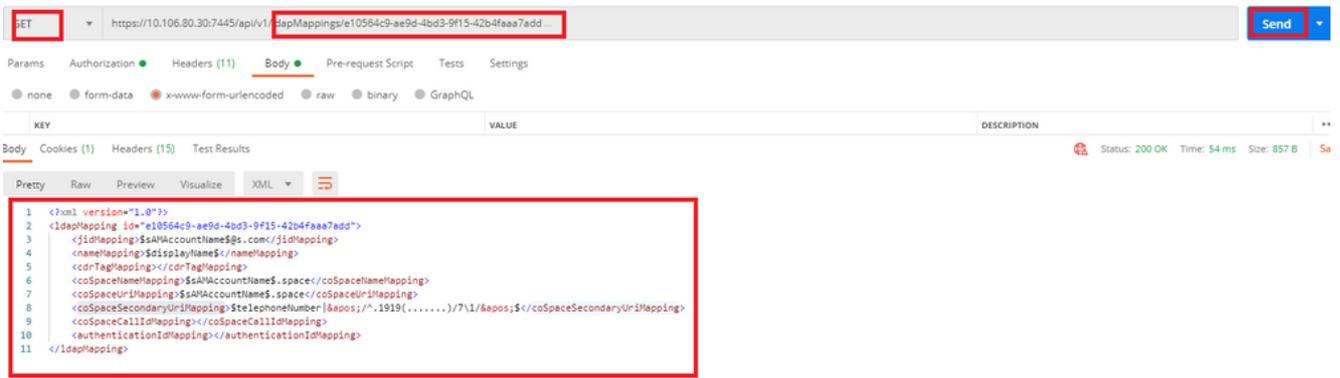
Parameters	Type/Value	Description/Notes
jidMapping	String	The template for generating user JIDs from the associated LDAP server's entries, for instance \$sAMAccountName\$@example.com.
nameMapping	String	The template for generating user names from the associated LDAP server's entries; for instance "\$cn\$" to use the common name.
cdrTagMapping	String	The template for generating a users' cdrTag value. Can be set either to a fixed value or be constructed from other LDAP fields for that user. The user's cdrTag is used in callLegStart CDRs. See the Cisco Meeting Server CDR Reference for details.
authenticationIdMapping	String	The template for generating authentication IDs from the associated LDAP server's entries, for instance "\$userPrincipalName\$".
coSpaceUriMapping	String	If these parameters are supplied, they ensure that each user account generated by this LDAP mapping has an associated personal coSpace. The user is automatically added as a member of the coSpace, with permissions defined above
coSpaceSecondaryUriMapping	String	In order for that coSpace to be set up as required, these parameters provide the template for setting the coSpaces' URI, displayed name and configured Call ID. For example, setting coSpaceNameMapping to "\$cn\$ personal coSpace" ensures that each user's coSpace is labelled with their name followed by "personal coSpace".
coSpaceNameMapping	String	Note that the generated coSpace will have its own cdrTag - and it will be the same as the user's cdrTag and cannot be changed other than by changing the cdrTagMapping above and re-syncing. (The coSpace's cdrTag is used in the callStart CDR. See the Cisco Meeting Server CDR Reference for details.)
coSpaceCallIdMapping	String	Note that the normal uniqueness rules apply to the URI and Call IDs of coSpaces set up in this way: it is not valid to have the same URI or Call ID for more than one coSpace set up by a given LDAP mapping, nor is it valid for such a coSpace URI or Call ID to be the same as one currently in use elsewhere on the Meeting Server.

3. ldapMappings에 대해 아래 매개 변수 구성

The screenshot shows a REST client interface with a POST request to the URL `https://10.106.80.30:7445/api/v1/ldapMappings/e10564c9-ae9d-4bd3-9f15-42b4faa7add`. The request body is configured as form-data and contains the following parameters:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> jidMapping	<code>\$sAMAccountName@s.com</code>	
<input checked="" type="checkbox"/> nameMapping	<code>\$displayName\$</code>	
<input checked="" type="checkbox"/> coSpaceNameMapping	<code>\$sAMAccountName\$.space</code>	
<input checked="" type="checkbox"/> coSpaceUriMapping	<code>\$sAMAccountName\$.space</code>	
<input checked="" type="checkbox"/> coSpaceSecondaryUriMapping	<code>\$telephoneNumber ^\s{1,19}(\s{1,19})*/\$</code>	

4. GET을 수행하여 구성된 매개변수를 확인합니다



3단계. /ldapsources 구성

1. /ldapsources에 대한 POST를 전송하여 /ldapsources ID를 만드십시오. /ldapsources ID를 사용하고 아래 매개 변수를 구성하십시오



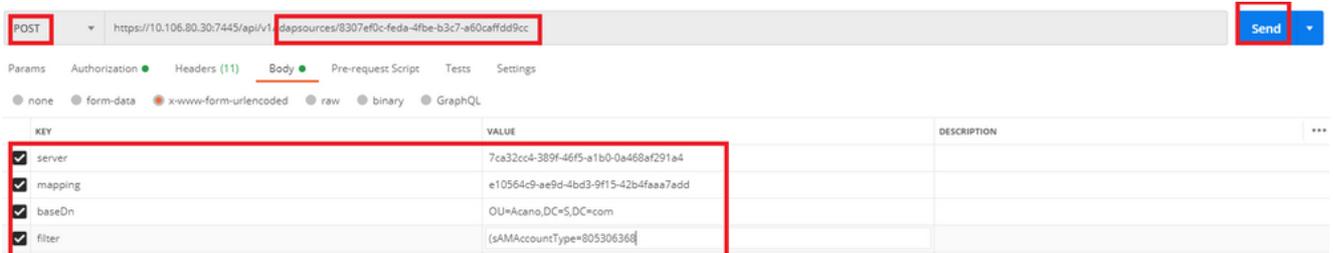
2. 아래 정보를 캡처하여 [CMS API 참조 설명서](#)에 따라 LDAP 매핑 ID를 업데이트합니다

↓

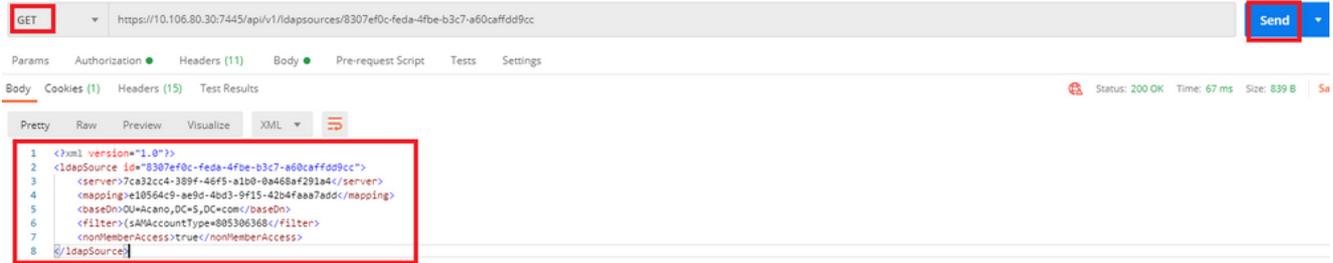
Parameters	Type/Value	Description/Notes
server *	ID	The ID of a previously-configured LDAP server (see above)
mapping *	ID	The ID of a previously-configured LDAP mapping (see above)
baseDn *	String	The distinguished name of the node in the LDAP server's tree from which users should be imported, for instance "cn=Users,dc=<companyname>,dc=com"
filter	String	An LDAP filter string that records must satisfy in order to be imported as users, for instance "(objectClass=person)"
tenant	ID	If supplied, the ID for the tenant to which the LDAP source should be associated. Users imported with this LDAP source will be associated with that tenant
userProfile	ID	If supplied, this is the ID of the user profile to associate with users imported via this LDAP source. This parameter is present from version 2.0 onwards.
nonMemberAccess	true false	This parameter pre-configures newly created spaces to allow or disallow non-member access. Spaces existing before the LDAP sync are not affected. true - no passcode is required to access the space and non-members are able to access the created spaces. This is the default setting and matches behavior before this parameter was introduced in version 2.0. false - ensures the member must configure non-member access and set a passcode as part of the LDAP sync. This setting allows a company to enforce passcode protection for non-member access to all user spaces. For more information, see Section 1.2 .

3. IdapSources에 대해 아래 매개변수를 구성합니다

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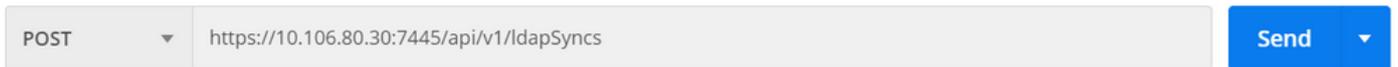
4. GET을 수행하여 구성된 매개변수를 확인합니다.



구성이 완료되었습니다. 지금 전체 동기화를 수행할 수 있습니다.

다음을 확인합니다.

1단계. API에서 /ldapSyncs에 대한 POST를 보내고 이벤트 로그를 확인합니다.



2단계. 동기화가 완료되면 이벤트 로그를 확인합니다

10:50:41.225	Info	10.65.86.71: API user "admin" created new LDAP sync operation c02dbb2b-c63e-4bb8-a39f-bbee2cd9611f
10:50:41.225	Info	LDAP sync operation starting
10:50:41.269	Info	LDAP sync operation: finalising
10:50:41.650	Info	LDAP sync operation c02dbb2b-c63e-4bb8-a39f-bbee2cd9611f complete
10:50:55.705	Info	10.65.86.71: web user "admin" logged in
10:50:55.705	Info	web session 1 now in use for user "admin"
10:53:04.331	Info	1103 log messages cleared by "admin"
10:53:07.569	Info	10.65.86.71: web user "admin" created new LDAP sync operation 50c7034c-9aa7-4e81-a304-4113734ffc11
10:53:07.570	Info	LDAP sync operation starting
10:53:07.594	Info	LDAP sync operation: finalising
10:53:07.943	Info	LDAP sync operation complete

3단계. 사용자가 ldap 소스에서 동기화되었는지 확인합니다.

Users

Filter Submit Query

Name	Email	Username
Gogi	gogi@s.com	gogi@s.com
Sai acano	saiacano@s.com	Saiacano@s.com
go go	gogo@federation.com	gogo@federation.com
ivrman	ivrman@s.com	ivrman@s.com
joey	joey@s.com	joey@s.com
prashant	prkapur@s.com	prkapur@s.com
sai1 acano	sai1acano@federation.com	sai1acano@federation.com
sankar v		sankar@s.com
shakur 2pac	2pac@s.com	2pac@s.com
user1	user1@acanolab3.com	user1@s.com
user2 2	user2@s.com	user2@s.com

문제 해결

API 매개변수 및 LDAP 특성이 정확한지 확인합니다.

통화 브리지에서 패킷 캡처를 가져오면 LDAP에서 연결 문제를 격리하는 데 도움이 됩니다.