

Entra Cloud Sync Documentation

centrelsolutionsdemo.onmicrosoft.com

Company Confidential

Document Properties

| | |
|----------------|-------------------------------------|
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Cloud Sync

Microsoft Entra Cloud Sync is a cloud-managed directory provisioning service that synchronizes users, groups, and contacts from on-premises Active Directory to Microsoft Entra ID. It uses a lightweight on-premises provisioning agent while all synchronization logic runs in Microsoft's cloud.



Cloud Sync

| | |
|---------|------|
| Enabled | True |
|---------|------|

Agents

Cloud Sync agents are lightweight on-premises components that securely connect your Active Directory environment to Microsoft Entra's cloud-based provisioning service.





2 Agents

| Machine Name | External IP Address | Status | Resources |
|---|---------------------|--------|-------------------------------|
|  CSDEMO-DC01.centrelsolutionsdemo.int | 1.2.3.4 | Active | centrelsolutionsdemo.int |
|  CSDEMO-DC03.emea.centrelsolutionsdemo.int | 1.2.3.4 | Active | emea.centrelsolutionsdemo.int |

Configurations

Cloud Sync configurations define which objects and attributes are in scope for synchronization, controlling how users, groups, and contacts flow from Active Directory to Entra ID - and, where supported, how selected attributes can flow back from Entra ID to Active Directory.

4 Cloud Sync Configurations

| Domain Name | Sync Direction | Status |
|---|--------------------------|--------|
|  centrelsolutionsdemo.int | AD to Microsoft Entra ID | Active |
|  emea.centrelsolutionsdemo.int | AD to Microsoft Entra ID | Active |
|  centrelsolutionsdemo.int | Microsoft Entra ID to AD | Active |
|  emea.centrelsolutionsdemo.int | Microsoft Entra ID to AD | Active |

centrelsolutionsdemo.int (AD to Microsoft Entra ID)

Cloud Sync configurations define which objects and attributes are in scope for synchronization, controlling how users, groups, and contacts flow from Active Directory to Entra ID - and, where supported, how selected attributes can flow back from Entra ID to Active Directory.

General

| | |
|-------------------------------------|--------------------------------------|
| Configuration Type | AD to Microsoft Entra ID |
| Domain Name | centrelsolutionsdemo.int |
| Service Principal Identifier | 48b8391b-b5fb-4781-b22b-21f744a81b18 |
| Status | Active |


Domain Information

| | |
|------------------------------|-----------------------------------|
| Domain Name | centrelsolutionsdemo.int |
| Domain NetBIOS Name | CSDEMO |
| Domain Discovery Date | Monday, April 13, 2026 4:35:39 PM |
| Forest Name | centrelsolutionsdemo.int |
| Forest NetBIOS Name | CSDEMO |

Settings

| | |
|--------------------------------------|-------|
| Email Notifications | True |
| Email Notifications Recipient | |
| Prevent Accidental Deletion | True |
| Accidental Deletion Threshold | 500 |
| Exchange Hybrid Writeback | False |
| Password Hash Sync | True |

1 Agents

| Machine Name | External IP Address | Status | Resources |
|--|---------------------|--------|--------------------------|
|  CSDEMO-DC01.centrelsolutionsdemo.int | 1.2.3.4 | Active | centrelsolutionsdemo.int |

2 Job Statuses

| Display Name | Status | Last Run Date/Time |
|---------------------|--------|------------------------------------|
| Password hash sync | Active | Wednesday, July 8, 2026 1:15:13 PM |
| User and group sync | Active | Wednesday, July 8, 2026 1:05:06 PM |

Scoping Filters

Scoping filters in Microsoft Entra Cloud Sync are conditional rules that determine which directory objects are included in a given sync flow.





 **Scoping Filters**

| Filter Type | All users |
|-------------|-----------|
|-------------|-----------|

Object Mappings

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

4 Object Mappings

| Source Object Name | Target Object Name | Enabled |
|---|--------------------|---------|
|  contact | Contact | True |
|  group | Group | True |
|  inetOrgPerson | User | True |
|  user | User | True |

contact

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









 **General**






















| | |
|---------------------------|---------|
| Source Object Name | contact |
| Target Object Name | Contact |
| Enabled | True |






















contact Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.











89 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|--|---------------|
|  Alias | Direct | mailNickname | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Direct | countryCode | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |

| | | | |
|--|------------|----------------------------------|--|
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |

| | | | |
|---|------------|---|--|
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MSEXchAssistantName | Direct | msExchAssistantName | |
|  MSEXchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MSEXchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEXchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEXchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEXchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEXchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEXchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEXchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEXchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEXchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEXchModerationFlags | Direct | msExchModerationFlags | |
|  MSEXchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEXchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |
|  MSEXchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEXchRetentionComment | Direct | msExchRetentionComment | |

| | | | |
|---|------------|--|--|
|  MExchRetentionUrl | Direct | msExchRetentionURL | |
|  MExchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MExchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MExchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |

| | | | |
|--|------------|--|--|
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UserCertificate | Direct | userCertificate | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wwwHomePage | |

group

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|-------|
| Source Object Name | group |
| Target Object Name | Group |
| Enabled | True |






















group Attribute Mappings






Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

63 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|--|---------------|
|  Alias | Direct | mailNickname | |
|  AuthOrig | Direct | authOrig | |
|  CommonName | Direct | cn | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |

| | | | |
|---|------------|---|--|
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  HideDLMembership | Direct | hideDLMembership | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Direct | mail | |
|  ManagedBy | Direct | managedBy | |
|  Member | Direct | member | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MSEXchBypassModerationLink | Direct | msExchBypassModerationLink | |
|  MSEXchCoManagedByLink | Direct | msExchCoManagedByLink | |
|  MSEXchEnableModeration | Direct | msExchEnableModeration | |
|  MSEXchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEXchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEXchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |

| | | | |
|--|------------|--|--|
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSOrgsOrganizational | Direct | msOrg-IsOrganizational | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OofReplyToOriginator | Direct | oOFReplyToOriginator | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |
|  PublicDelegates | Direct | publicDelegates | |

| | | | |
|--|------------|--|--|
|  ReportToOriginator | Direct | reportToOriginator | |
|  ReportToOwner | Direct | reportToOwner | |
|  SecurityEnabled | Expression | CBool(BitAnd([groupType], -2147483648)) | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  UnauthOrig | Direct | unauthOrig | |

inetOrgPerson

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|---------------|
| Source Object Name | inetOrgPerson |
| Target Object Name | User |
| Enabled | True |






















inetOrgPerson Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.






















138 Attribute Mappings






















| Target Attribute Name | Source Type | Source Value | Default Value |
|---|-------------|---|---------------|
|  AccountEnabled | Expression | IIF(IsPresent([userAccountControl]), IIF(BitAnd([userAccountControl], 2)="0", "True", "False"), Not([accountDisabled])) | |
|  Alias | Direct | mailNickname | |
|  AltRecipient | Direct | altRecipient | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  CommonName | Direct | cn | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Expression | IgnoreFlowIfNullOrEmpty([countryCode]) | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  CredentialData | Direct | PasswordHash | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |


















| | | | |
|--|------------|----------------------------------|--|
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  EmployeeId | Direct | employeeID | |
|  EmployeeType | Direct | employeeType | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |

| | | | |
|---|------------|---|--|
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LastPasswordChangeTimestamp | Expression | IIF(IsPresent([pwdLastSet]), FormatDateTime(DateFromNum([pwdLastSet]), "RoundtripKind", , "yyyyMMddHHmmss.OZ"),) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MExchArchiveGuid | Direct | msExchArchiveGUID | |
|  MExchArchiveName | Direct | msExchArchiveName | |
|  MExchAssistantName | Direct | msExchAssistantName | |
|  MExchAuditAdmin | Direct | msExchAuditAdmin | |
|  MExchAuditDelegate | Direct | msExchAuditDelegate | |
|  MExchAuditDelegateAdmin | Direct | msExchAuditDelegateAdmin | |
|  MExchAuditOwner | Direct | msExchAuditOwner | |
|  MExchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MExchBypassAudit | Direct | msExchBypassAudit | |

| | | | |
|--|------------|---|--|
|  MSEchDelegateListLink | Direct | msExchDelegateListLink | |
|  MSEchElcExpirySuspensionEnd | Direct | msExchELCExpirySuspensionEnd | |
|  MSEchElcExpirySuspensionStart | Direct | msExchELCExpirySuspensionStart | |
|  MSEchElcMailboxFlags | Direct | msExchELCMailboxFlags | |
|  MSEchEnableModeration | Direct | msExchEnableModeration | |
|  MSEchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchImmutableId | Direct | msExchImmutableId | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchMailboxAuditEnable | Direct | msExchMailboxAuditEnable | |
|  MSEchMailboxAuditLogAgeLimit | Direct | msExchMailboxAuditLogAgeLimit | |
|  MSEchMailboxGuid | Direct | msExchMailboxGuid | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |

| | | | |
|--|--------|-------------------------------------|--|
|  MSEchRemoteRecipientType | Direct | msExchRemoteRecipientType | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchResourceCapacity | Direct | msExchResourceCapacity | |
|  MSEchResourceDisplay | Direct | msExchResourceDisplay | |
|  MSEchResourceMetadata | Direct | msExchResourceMetaData | |
|  MSEchResourceSearchProperties | Direct | msExchResourceSearchProperties | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MSEchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSEchTeamMailboxExpiration | Direct | msExchTeamMailboxExpiration | |
|  MSEchTeamMailboxOwners | Direct | msExchTeamMailboxOwners | |
|  MSEchTeamMailboxSharePointLinkedBy | Direct | msExchTeamMailboxSharePointLinkedBy | |
|  MSEchTeamMailboxSharePointUrl | Direct | msExchTeamMailboxSharePointUrl | |
|  MSEchUserHoldPolicies | Direct | msExchUserHoldPolicies | |
|  MSRtcSipApplicationOptions | Direct | msRTCSIP-ApplicationOptions | |
|  MSRtcSipDeploymentLocator | Direct | msRTCSIP-DeploymentLocator | |
|  MSRtcSipLine | Direct | msRTCSIP-Line | |
|  MSRtcSipOptionFlags | Direct | msRTCSIP-OptionFlags | |
|  MSRtcSipOwnerUrn | Direct | msRTCSIP-OwnerUrn | |

| | | | |
|---|------------|--|--|
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  MSRtcSipUserEnabled | Direct | msRTCSIP-UserEnabled | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremisesDistinguishedName | Direct | distinguishedName | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OnPremisesUserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  PreferredDataLocation | Direct | msDS-preferredDataLocation | |
|  PreferredLanguage | Expression | Trim([preferredLanguage]) | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |

| | | | |
|---|------------|--|--|
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneAssistant | Expression | Trim([telephoneAssistant]) | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UsageLocation | Expression | IgnoreFlowIfNullOrEmpty([msExchUsageLocation]) | |
|  UserCertificate | Direct | userCertificate | |
|  UserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wWWHomePage | |

user

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|------|
| Source Object Name | user |
| Target Object Name | User |
| Enabled | True |






















user Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.






















138 Attribute Mappings






















| Target Attribute Name | Source Type | Source Value | Default Value |
|---|-------------|---|---------------|
|  AccountEnabled | Expression | IIF(IsPresent([userAccountControl]), IIF(BitAnd([userAccountControl], 2)="0", "True", "False"), Not([accountDisabled])) | |
|  Alias | Direct | mailNickname | |
|  AltRecipient | Direct | altRecipient | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  CommonName | Direct | cn | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Expression | IgnoreFlowIfNullOrEmpty([countryCode]) | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  CredentialData | Direct | PasswordHash | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |

















| | | | |
|--|------------|----------------------------------|--|
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  EmployeeId | Direct | employeeID | |
|  EmployeeType | Direct | employeeType | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |

| | | | |
|---|------------|---|--|
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LastPasswordChangeTimestamp | Expression | IIF(IsPresent([pwdLastSet]), FormatDateTime(DateFromNum([pwdLastSet]), "RoundtripKind", , "yyyyMMddHHmmss.OZ"),) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MExchArchiveGuid | Direct | msExchArchiveGUID | |
|  MExchArchiveName | Direct | msExchArchiveName | |
|  MExchAssistantName | Direct | msExchAssistantName | |
|  MExchAuditAdmin | Direct | msExchAuditAdmin | |
|  MExchAuditDelegate | Direct | msExchAuditDelegate | |
|  MExchAuditDelegateAdmin | Direct | msExchAuditDelegateAdmin | |
|  MExchAuditOwner | Direct | msExchAuditOwner | |
|  MExchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MExchBypassAudit | Direct | msExchBypassAudit | |

| | | | |
|--|------------|---|--|
|  MSEchDelegateListLink | Direct | msExchDelegateListLink | |
|  MSEchElcExpirySuspensionEnd | Direct | msExchELCExpirySuspensionEnd | |
|  MSEchElcExpirySuspensionStart | Direct | msExchELCExpirySuspensionStart | |
|  MSEchElcMailboxFlags | Direct | msExchELCMailboxFlags | |
|  MSEchEnableModeration | Direct | msExchEnableModeration | |
|  MSEchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchImmutableId | Direct | msExchImmutableId | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchMailboxAuditEnable | Direct | msExchMailboxAuditEnable | |
|  MSEchMailboxAuditLogAgeLimit | Direct | msExchMailboxAuditLogAgeLimit | |
|  MSEchMailboxGuid | Direct | msExchMailboxGuid | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |

| | | | |
|--|--------|-------------------------------------|--|
|  MSEchRemoteRecipientType | Direct | msExchRemoteRecipientType | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchResourceCapacity | Direct | msExchResourceCapacity | |
|  MSEchResourceDisplay | Direct | msExchResourceDisplay | |
|  MSEchResourceMetadata | Direct | msExchResourceMetaData | |
|  MSEchResourceSearchProperties | Direct | msExchResourceSearchProperties | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MSEchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSEchTeamMailboxExpiration | Direct | msExchTeamMailboxExpiration | |
|  MSEchTeamMailboxOwners | Direct | msExchTeamMailboxOwners | |
|  MSEchTeamMailboxSharePointLinkedBy | Direct | msExchTeamMailboxSharePointLinkedBy | |
|  MSEchTeamMailboxSharePointUrl | Direct | msExchTeamMailboxSharePointUrl | |
|  MSEchUserHoldPolicies | Direct | msExchUserHoldPolicies | |
|  MSRtcSipApplicationOptions | Direct | msRTCSIP-ApplicationOptions | |
|  MSRtcSipDeploymentLocator | Direct | msRTCSIP-DeploymentLocator | |
|  MSRtcSipLine | Direct | msRTCSIP-Line | |
|  MSRtcSipOptionFlags | Direct | msRTCSIP-OptionFlags | |
|  MSRtcSipOwnerUrn | Direct | msRTCSIP-OwnerUrn | |

| | | | |
|---|------------|--|--|
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  MSRtcSipUserEnabled | Direct | msRTCSIP-UserEnabled | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremisesDistinguishedName | Direct | distinguishedName | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OnPremisesUserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  PreferredDataLocation | Direct | msDS-preferredDataLocation | |
|  PreferredLanguage | Expression | Trim([preferredLanguage]) | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |

| | | | |
|--|------------|--|--|
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneAssistant | Expression | Trim([telephoneAssistant]) | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UsageLocation | Expression | IgnoreFlowIfNullOrEmpty([msExchUsageLocation]) | |
|  UserCertificate | Direct | userCertificate | |
|  UserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wWWHomePage | |

emea.centrelsolutionsdemo.int (AD to Microsoft Entra ID)

Cloud Sync configurations define which objects and attributes are in scope for synchronization, controlling how users, groups, and contacts flow from Active Directory to Entra ID - and, where supported, how selected attributes can flow back from Entra ID to Active Directory.

General

| | |
|-------------------------------------|--------------------------------------|
| Configuration Type | AD to Microsoft Entra ID |
| Domain Name | emea.centrelsolutionsdemo.int |
| Service Principal Identifier | f07b2721-e57c-4a6f-b686-22f857537170 |
| Status | Active |


Domain Information

| | |
|------------------------------|-------------------------------------|
| Domain Name | emea.centrelsolutionsdemo.int |
| Domain NetBIOS Name | EMEA |
| Domain Discovery Date | Wednesday, July 8, 2026 12:59:01 PM |
| Forest Name | centrelsolutionsdemo.int |
| Forest NetBIOS Name | CSDEMO |

Settings

| | |
|--------------------------------------|-------|
| Email Notifications | True |
| Email Notifications Recipient | |
| Prevent Accidental Deletion | True |
| Accidental Deletion Threshold | 500 |
| Exchange Hybrid Writeback | False |
| Password Hash Sync | True |

1 Agents

| Machine Name | External IP Address | Status | Resources |
|---|---------------------|--------|-------------------------------|
|  CSDEMO-DC03.emea.centrelsolutionsdemo.int | 1.2.3.4 | Active | emea.centrelsolutionsdemo.int |

2 Job Statuses

| Display Name | Status | Last Run Date/Time |
|---------------------|--------|------------------------------------|
| Password hash sync | Active | Wednesday, July 8, 2026 1:15:43 PM |
| User and group sync | Active | Wednesday, July 8, 2026 1:05:46 PM |

Scoping Filters

Scoping filters in Microsoft Entra Cloud Sync are conditional rules that determine which directory objects are included in a given sync flow.




 **Scoping Filters**

| Filter Type | All users |
|-------------|-----------|
|-------------|-----------|

Object Mappings

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

4 Object Mappings

| Source Object Name | Target Object Name | Enabled |
|---|--------------------|---------|
|  contact | Contact | True |
|  group | Group | True |
|  inetOrgPerson | User | True |
|  user | User | True |

contact

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|---------|
| Source Object Name | contact |
| Target Object Name | Contact |
| Enabled | True |






















contact Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.











89 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|--|---------------|
|  Alias | Direct | mailNickname | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Direct | countryCode | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |

| | | | |
|--|------------|----------------------------------|--|
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |

| | | | |
|---|------------|---|--|
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MSEXchAssistantName | Direct | msExchAssistantName | |
|  MSEXchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MSEXchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEXchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEXchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEXchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEXchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEXchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEXchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEXchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEXchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEXchModerationFlags | Direct | msExchModerationFlags | |
|  MSEXchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEXchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |
|  MSEXchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEXchRetentionComment | Direct | msExchRetentionComment | |

| | | | |
|---|------------|--|--|
|  MExchRetentionUrl | Direct | msExchRetentionURL | |
|  MExchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MExchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MExchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |

| | | | |
|--|------------|--|--|
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UserCertificate | Direct | userCertificate | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wwwHomePage | |

group

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|-------|
| Source Object Name | group |
| Target Object Name | Group |
| Enabled | True |






















group Attribute Mappings






Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

63 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|--|---------------|
|  Alias | Direct | mailNickname | |
|  AuthOrig | Direct | authOrig | |
|  CommonName | Direct | cn | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |

| | | | |
|---|------------|---|--|
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  HideDLMembership | Direct | hideDLMembership | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Direct | mail | |
|  ManagedBy | Direct | managedBy | |
|  Member | Direct | member | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MSEXchBypassModerationLink | Direct | msExchBypassModerationLink | |
|  MSEXchCoManagedByLink | Direct | msExchCoManagedByLink | |
|  MSEXchEnableModeration | Direct | msExchEnableModeration | |
|  MSEXchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEXchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEXchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |

| | | | |
|--|------------|--|--|
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSOrgIsOrganizational | Direct | msOrg-IsOrganizational | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OofReplyToOriginator | Direct | oOFReplyToOriginator | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |
|  PublicDelegates | Direct | publicDelegates | |

| | | | |
|--|------------|--|--|
|  ReportToOriginator | Direct | reportToOriginator | |
|  ReportToOwner | Direct | reportToOwner | |
|  SecurityEnabled | Expression | CBool(BitAnd([groupType], -2147483648)) | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  UnauthOrig | Direct | unauthOrig | |

inetOrgPerson

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

















 **General**






















| | |
|---------------------------|---------------|
| Source Object Name | inetOrgPerson |
| Target Object Name | User |
| Enabled | True |






















inetOrgPerson Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.






















138 Attribute Mappings






















| Target Attribute Name | Source Type | Source Value | Default Value |
|---|-------------|---|---------------|
|  AccountEnabled | Expression | IIF(IsPresent([userAccountControl]), IIF(BitAnd([userAccountControl], 2)="0", "True", "False"), Not([accountDisabled])) | |
|  Alias | Direct | mailNickname | |
|  AltRecipient | Direct | altRecipient | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  CommonName | Direct | cn | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Expression | IgnoreFlowIfNullOrEmpty([countryCode]) | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  CredentialData | Direct | PasswordHash | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |


















| | | | |
|--|------------|----------------------------------|--|
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  EmployeeId | Direct | employeeID | |
|  EmployeeType | Direct | employeeType | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |

| | | | |
|---|------------|---|--|
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LastPasswordChangeTimestamp | Expression | IIF(IsPresent([pwdLastSet]), FormatDateTime(DateFromNum([pwdLastSet]), "RoundtripKind", , "yyyyMMddHHmmss.OZ"),) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MExchArchiveGuid | Direct | msExchArchiveGUID | |
|  MExchArchiveName | Direct | msExchArchiveName | |
|  MExchAssistantName | Direct | msExchAssistantName | |
|  MExchAuditAdmin | Direct | msExchAuditAdmin | |
|  MExchAuditDelegate | Direct | msExchAuditDelegate | |
|  MExchAuditDelegateAdmin | Direct | msExchAuditDelegateAdmin | |
|  MExchAuditOwner | Direct | msExchAuditOwner | |
|  MExchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MExchBypassAudit | Direct | msExchBypassAudit | |

| | | | |
|--|------------|---|--|
|  MSEchDelegateListLink | Direct | msExchDelegateListLink | |
|  MSEchElcExpirySuspensionEnd | Direct | msExchELCExpirySuspensionEnd | |
|  MSEchElcExpirySuspensionStart | Direct | msExchELCExpirySuspensionStart | |
|  MSEchElcMailboxFlags | Direct | msExchELCMailboxFlags | |
|  MSEchEnableModeration | Direct | msExchEnableModeration | |
|  MSEchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchImmutableId | Direct | msExchImmutableId | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchMailboxAuditEnable | Direct | msExchMailboxAuditEnable | |
|  MSEchMailboxAuditLogAgeLimit | Direct | msExchMailboxAuditLogAgeLimit | |
|  MSEchMailboxGuid | Direct | msExchMailboxGuid | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |

| | | | |
|--|--------|-------------------------------------|--|
|  MSEchRemoteRecipientType | Direct | msExchRemoteRecipientType | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchResourceCapacity | Direct | msExchResourceCapacity | |
|  MSEchResourceDisplay | Direct | msExchResourceDisplay | |
|  MSEchResourceMetadata | Direct | msExchResourceMetaData | |
|  MSEchResourceSearchProperties | Direct | msExchResourceSearchProperties | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MSEchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSEchTeamMailboxExpiration | Direct | msExchTeamMailboxExpiration | |
|  MSEchTeamMailboxOwners | Direct | msExchTeamMailboxOwners | |
|  MSEchTeamMailboxSharePointLinkedBy | Direct | msExchTeamMailboxSharePointLinkedBy | |
|  MSEchTeamMailboxSharePointUrl | Direct | msExchTeamMailboxSharePointUrl | |
|  MSEchUserHoldPolicies | Direct | msExchUserHoldPolicies | |
|  MSRtcSipApplicationOptions | Direct | msRTCSIP-ApplicationOptions | |
|  MSRtcSipDeploymentLocator | Direct | msRTCSIP-DeploymentLocator | |
|  MSRtcSipLine | Direct | msRTCSIP-Line | |
|  MSRtcSipOptionFlags | Direct | msRTCSIP-OptionFlags | |
|  MSRtcSipOwnerUrn | Direct | msRTCSIP-OwnerUrn | |

| | | | |
|---|------------|--|--|
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  MSRtcSipUserEnabled | Direct | msRTCSIP-UserEnabled | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremisesDistinguishedName | Direct | distinguishedName | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OnPremisesUserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  PreferredDataLocation | Direct | msDS-preferredDataLocation | |
|  PreferredLanguage | Expression | Trim([preferredLanguage]) | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |

| | | | |
|---|------------|--|--|
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneAssistant | Expression | Trim([telephoneAssistant]) | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UsageLocation | Expression | IgnoreFlowIfNullOrEmpty([msExchUsageLocation]) | |
|  UserCertificate | Direct | userCertificate | |
|  UserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wWWHomePage | |

user

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.
















 **General**






















| | |
|---------------------------|------|
| Source Object Name | user |
| Target Object Name | User |
| Enabled | True |






















user Attribute Mappings






















Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.






















138 Attribute Mappings






















| Target Attribute Name | Source Type | Source Value | Default Value |
|---|-------------|---|---------------|
|  AccountEnabled | Expression | IIF(IsPresent([userAccountControl]), IIF(BitAnd([userAccountControl], 2)="0", "True", "False"), Not([accountDisabled])) | |
|  Alias | Direct | mailNickname | |
|  AltRecipient | Direct | altRecipient | |
|  Assistant | Direct | assistant | |
|  AuthOrig | Direct | authOrig | |
|  City | Expression | Trim([l]) | |
|  CommonName | Direct | cn | |
|  Company | Expression | Trim([company]) | |
|  Country | Expression | Trim([co]) | |
|  CountryCode | Expression | IgnoreFlowIfNullOrEmpty([countryCode]) | |
|  CountryLetterCode | Expression | Trim([c]) | |
|  CredentialData | Direct | PasswordHash | |
|  Department | Expression | Trim([department]) | |
|  Description | Expression | Left(Trim([description]), 448) | |
|  DisplayName | Expression | IIF(IsPresent([displayName]), [displayName], [cn]) | |
|  DLMemRejectPerms | Direct | dLMemRejectPerms | |


















| | | | |
|--|------------|----------------------------------|--|
|  DLMemSubmitPerms | Direct | dLMemSubmitPerms | |
|  DnsDomainName | Constant | %DomainFQDN% | |
|  EmployeeId | Direct | employeeID | |
|  EmployeeType | Direct | employeeType | |
|  ExtensionAttribute1 | Expression | Trim([extensionAttribute1]) | |
|  ExtensionAttribute10 | Expression | Trim([extensionAttribute10]) | |
|  ExtensionAttribute11 | Expression | Trim([extensionAttribute11]) | |
|  ExtensionAttribute12 | Expression | Trim([extensionAttribute12]) | |
|  ExtensionAttribute13 | Expression | Trim([extensionAttribute13]) | |
|  ExtensionAttribute14 | Expression | Trim([extensionAttribute14]) | |
|  ExtensionAttribute15 | Expression | Trim([extensionAttribute15]) | |
|  ExtensionAttribute2 | Expression | Trim([extensionAttribute2]) | |
|  ExtensionAttribute3 | Expression | Trim([extensionAttribute3]) | |
|  ExtensionAttribute4 | Expression | Trim([extensionAttribute4]) | |
|  ExtensionAttribute5 | Expression | Trim([extensionAttribute5]) | |
|  ExtensionAttribute6 | Expression | Trim([extensionAttribute6]) | |
|  ExtensionAttribute7 | Expression | Trim([extensionAttribute7]) | |
|  ExtensionAttribute8 | Expression | Trim([extensionAttribute8]) | |
|  ExtensionAttribute9 | Expression | Trim([extensionAttribute9]) | |
|  FacsimileTelephoneNumber | Expression | Trim([facsimileTelephoneNumber]) | |
|  GivenName | Expression | Trim([givenName]) | |

| | | | |
|---|------------|---|--|
|  HomePhone | Expression | Trim([homePhone]) | |
|  Info | Expression | Left(Trim([info]), 448) | |
|  Initials | Expression | Trim([initials]) | |
|  IPPhone | Expression | Trim([ipPhone]) | |
|  LastPasswordChangeTimestamp | Expression | IIF(IsPresent([pwdLastSet]), FormatDateTime(DateFromNum([pwdLastSet]), "RoundtripKind", , "yyyyMMddHHmmss.OZ"),) | |
|  LegacyExchangeDN | Direct | legacyExchangeDN | |
|  Mail | Expression | Trim([mail]) | |
|  Manager | Direct | manager | |
|  MiddleName | Expression | Trim([middleName]) | |
|  Mobile | Expression | Trim([mobile]) | |
|  MSDSHABSeniorityIndex | Direct | msDS-HABSeniorityIndex | |
|  MSDSPhoneticDisplayName | Direct | msDS-PhoneticDisplayName | |
|  MExchArchiveGuid | Direct | msExchArchiveGUID | |
|  MExchArchiveName | Direct | msExchArchiveName | |
|  MExchAssistantName | Direct | msExchAssistantName | |
|  MExchAuditAdmin | Direct | msExchAuditAdmin | |
|  MExchAuditDelegate | Direct | msExchAuditDelegate | |
|  MExchAuditDelegateAdmin | Direct | msExchAuditDelegateAdmin | |
|  MExchAuditOwner | Direct | msExchAuditOwner | |
|  MExchBlockedSendersHash | Direct | msExchBlockedSendersHash | |
|  MExchBypassAudit | Direct | msExchBypassAudit | |

| | | | |
|--|------------|---|--|
|  MSEchDelegateListLink | Direct | msExchDelegateListLink | |
|  MSEchElcExpirySuspensionEnd | Direct | msExchELCExpirySuspensionEnd | |
|  MSEchElcExpirySuspensionStart | Direct | msExchELCExpirySuspensionStart | |
|  MSEchElcMailboxFlags | Direct | msExchELCMailboxFlags | |
|  MSEchEnableModeration | Direct | msExchEnableModeration | |
|  MSEchExtensionCustomAttribute1 | Expression | Trim([msExchExtensionCustomAttribute1]) | |
|  MSEchExtensionCustomAttribute2 | Expression | Trim([msExchExtensionCustomAttribute2]) | |
|  MSEchExtensionCustomAttribute3 | Expression | Trim([msExchExtensionCustomAttribute3]) | |
|  MSEchExtensionCustomAttribute4 | Expression | Trim([msExchExtensionCustomAttribute4]) | |
|  MSEchExtensionCustomAttribute5 | Expression | Trim([msExchExtensionCustomAttribute5]) | |
|  MSEchHideFromAddressLists | Direct | msExchHideFromAddressLists | |
|  MSEchImmutableId | Direct | msExchImmutableId | |
|  MSEchLitigationHoldDate | Direct | msExchLitigationHoldDate | |
|  MSEchLitigationHoldOwner | Direct | msExchLitigationHoldOwner | |
|  MSEchMailboxAuditEnable | Direct | msExchMailboxAuditEnable | |
|  MSEchMailboxAuditLogAgeLimit | Direct | msExchMailboxAuditLogAgeLimit | |
|  MSEchMailboxGuid | Direct | msExchMailboxGuid | |
|  MSEchModeratedByLink | Direct | msExchModeratedByLink | |
|  MSEchModerationFlags | Direct | msExchModerationFlags | |
|  MSEchRecipientDisplayType | Direct | msExchRecipientDisplayType | |
|  MSEchRecipientTypeDetails | Direct | msExchRecipientTypeDetails | |

| | | | |
|--|--------|-------------------------------------|--|
|  MSEchRemoteRecipientType | Direct | msExchRemoteRecipientType | |
|  MSEchRequireAuthToSendTo | Direct | msExchRequireAuthToSendTo | |
|  MSEchResourceCapacity | Direct | msExchResourceCapacity | |
|  MSEchResourceDisplay | Direct | msExchResourceDisplay | |
|  MSEchResourceMetadata | Direct | msExchResourceMetaData | |
|  MSEchResourceSearchProperties | Direct | msExchResourceSearchProperties | |
|  MSEchRetentionComment | Direct | msExchRetentionComment | |
|  MSEchRetentionUrl | Direct | msExchRetentionURL | |
|  MSEchSafeRecipientsHash | Direct | msExchSafeRecipientsHash | |
|  MSEchSafeSendersHash | Direct | msExchSafeSendersHash | |
|  MSEchSenderHintTranslations | Direct | msExchSenderHintTranslations | |
|  MSEchTeamMailboxExpiration | Direct | msExchTeamMailboxExpiration | |
|  MSEchTeamMailboxOwners | Direct | msExchTeamMailboxOwners | |
|  MSEchTeamMailboxSharePointLinkedBy | Direct | msExchTeamMailboxSharePointLinkedBy | |
|  MSEchTeamMailboxSharePointUrl | Direct | msExchTeamMailboxSharePointUrl | |
|  MSEchUserHoldPolicies | Direct | msExchUserHoldPolicies | |
|  MSRtcSipApplicationOptions | Direct | msRTCSIP-ApplicationOptions | |
|  MSRtcSipDeploymentLocator | Direct | msRTCSIP-DeploymentLocator | |
|  MSRtcSipLine | Direct | msRTCSIP-Line | |
|  MSRtcSipOptionFlags | Direct | msRTCSIP-OptionFlags | |
|  MSRtcSipOwnerUrn | Direct | msRTCSIP-OwnerUrn | |

| | | | |
|---|------------|--|--|
|  MSRtcSipPrimaryUserAddress | Direct | msRTCSIP-PrimaryUserAddress | |
|  MSRtcSipUserEnabled | Direct | msRTCSIP-UserEnabled | |
|  NetBiosName | Constant | %DomainNetBios% | |
|  OnPremisesDistinguishedName | Direct | distinguishedName | |
|  OnPremiseSecurityIdentifier | Direct | objectSid | |
|  OnPremisesObjectIdentifier | Direct | objectGUID | |
|  OnPremisesSamAccountName | Direct | sAMAccountName | |
|  OnPremisesUserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  OtherFacsimileTelephoneNumber | Expression | Trim([otherFacsimileTelephoneNumber]) | |
|  OtherHomePhone | Expression | Trim([otherHomePhone]) | |
|  OtherIPPhone | Expression | Trim([otherIpPhone]) | |
|  OtherMobile | Expression | Trim([otherMobile]) | |
|  OtherPager | Expression | Trim([otherPager]) | |
|  OtherTelephone | Expression | Trim([otherTelephone]) | |
|  Pager | Expression | Trim([pager]) | |
|  PhysicalDeliveryOfficeName | Expression | Trim([physicalDeliveryOfficeName]) | |
|  PostalCode | Expression | Trim([postalCode]) | |
|  PostOfficeBox | Expression | IIF(IsPresent([postOfficeBox]), Left(Trim(Item([postOfficeBox], 1)), 448), "") | |
|  PreferredDataLocation | Direct | msDS-preferredDataLocation | |
|  PreferredLanguage | Expression | Trim([preferredLanguage]) | |
|  ProxyAddresses | Expression | RemoveDuplicates(Trim([proxyAddresses])) | |

| | | | |
|---|------------|--|--|
|  PublicDelegates | Direct | publicDelegates | |
|  SourceAnchor | Expression | IIF(IsPresent([mS-DS-ConsistencyGuid]), [mS-DS-ConsistencyGuid], [objectGUID]) | |
|  State | Expression | Trim([st]) | |
|  StreetAddress | Expression | Trim([streetAddress]) | |
|  Surname | Expression | Trim([sn]) | |
|  TargetAddress | Direct | targetAddress | |
|  TelephoneAssistant | Expression | Trim([telephoneAssistant]) | |
|  TelephoneNumber | Expression | Trim([telephoneNumber]) | |
|  ThumbnailPhoto | Direct | thumbnailPhoto | |
|  Title | Expression | Trim([title]) | |
|  UnauthOrig | Direct | unauthOrig | |
|  Url | Expression | IIF(IsPresent([url]), Left(Trim(Item([url], 1)), 448), "") | |
|  UsageLocation | Expression | IgnoreFlowIfNullOrEmpty([msExchUsageLocation]) | |
|  UserCertificate | Direct | userCertificate | |
|  UserPrincipalName | Expression | IIF(IsPresent([userPrincipalName]), [userPrincipalName], IIF(IsPresent([sAMAccountName]), Join("@", [sAMAccountName], %DomainFQDN%), Error("AccountName is not present"))) | |
|  UserSMIMECertificate | Direct | userSMIMECertificate | |
|  WwwHomepage | Direct | wWWHomePage | |

centrelsolutionsdemo.int (Microsoft Entra ID to AD)

Cloud Sync configurations define which objects and attributes are in scope for synchronization, controlling how users, groups, and contacts flow from Active Directory to Entra ID - and, where supported, how selected attributes can flow back from Entra ID to Active Directory.

General

| | |
|-------------------------------------|--------------------------------------|
| Configuration Type | Microsoft Entra ID to AD |
| Domain Name | centrelsolutionsdemo.int |
| Service Principal Identifier | 1376c4a4-e4b4-40ff-afd2-6dfac6534695 |
| Status | Active |


Domain Information

| | |
|------------------------------|-----------------------------------|
| Domain Name | centrelsolutionsdemo.int |
| Domain NetBIOS Name | CSDEMO |
| Domain Discovery Date | Monday, April 13, 2026 4:36:40 PM |
| Forest Name | centrelsolutionsdemo.int |
| Forest NetBIOS Name | CSDEMO |

Settings

| | |
|--------------------------------------|------|
| Email Notifications | True |
| Email Notifications Recipient | |
| Prevent Accidental Deletion | True |
| Accidental Deletion Threshold | 500 |

1 Agents


| Machine Name | External IP Address | Status | Resources |
|--|---------------------|--------|--------------------------|
|  CSDEMO-DC01.centrelsolutionsdemo.int | 1.2.3.4 | Active | centrelsolutionsdemo.int |

1 Job Statuses

| Display Name | Status | Last Run Date/Time |
|--|--------|------------------------------------|
| Group provisioning to Active Directory | Active | Wednesday, July 8, 2026 1:04:59 PM |

Scoping Filters

Scoping filters in Microsoft Entra Cloud Sync are conditional rules that determine which directory objects are included in a given sync flow.

 **Groups**

| | |
|---------------------|---------------------|
| Groups Scope | All security groups |
|---------------------|---------------------|

 **Target Container**

| | |
|-------------------------|---|
| Target Container | CN=Users,DC=centrelsolutionsdemo,DC=int |
|-------------------------|---|



 **1 Attribute Filters**

| Clause | Name | Scoping Phrase |
|--------|-----------------------------|----------------|
| | Cloud Owned Security Groups | |

Object Mappings

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

2 Object Mappings

| Source Object Name | Target Object Name | Enabled |
|---|--------------------|---------|
|  Group | group | True |
|  User | user | True |

Group

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.










General

| | |
|---------------------------|-------|
| Source Object Name | Group |
| Target Object Name | group |
| Enabled | True |

Group Attribute Mappings

Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

9 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|---|---|
|  adminDescription | Expression | Append("Group_", [objectId]) | |
|  cn | Expression | Append(Append(Left(Trim([displayName]), 51), "_"), Mid([objectId], 25, 12)) | |
|  description | Expression | Left(Trim([description]), 448) | |
|  displayName | Direct | displayName | |
|  isSecurityGroup | Constant | "True" | |
|  member | Direct | members | |
|  msDS-ExternalDirectoryObjectId | Expression | Append("Group_", [objectId]) | |
|  parentDistinguishedName | Constant | "CN=Users,DC=centrelsolutionsdemo,DC=int" | CN=Users,DC=centrelsolutionsdemo,DC=int |
|  universalScope | Constant | "True" | |

User

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

General

| | |
|---------------------------|------|
| Source Object Name | User |
| Target Object Name | user |
| Enabled | True |

User Attribute Mappings

Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

1 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|-----------------------------|---------------|
|  msDS-ExternalDirectoryObjectId | Expression | Append("User_", [objectId]) | |

emea.centrelsolutionsdemo.int (Microsoft Entra ID to AD)

Cloud Sync configurations define which objects and attributes are in scope for synchronization, controlling how users, groups, and contacts flow from Active Directory to Entra ID - and, where supported, how selected attributes can flow back from Entra ID to Active Directory.

General

| | |
|-------------------------------------|--------------------------------------|
| Configuration Type | Microsoft Entra ID to AD |
| Domain Name | emea.centrelsolutionsdemo.int |
| Service Principal Identifier | 2324d490-ddef-4578-8c3b-0d77feeaac9d |
| Status | Active |


Domain Information

| | |
|------------------------------|-------------------------------------|
| Domain Name | emea.centrelsolutionsdemo.int |
| Domain NetBIOS Name | EMEA |
| Domain Discovery Date | Wednesday, July 8, 2026 12:58:47 PM |
| Forest Name | centrelsolutionsdemo.int |
| Forest NetBIOS Name | CSDEMO |

Settings

| | |
|--------------------------------------|------|
| Email Notifications | True |
| Email Notifications Recipient | |
| Prevent Accidental Deletion | True |
| Accidental Deletion Threshold | 500 |

1 Agents

| Machine Name | External IP Address | Status | Resources |
|---|---------------------|--------|-------------------------------|
|  CSDEMO-DC03.emea.centrelsolutionsdemo.int | 1.2.3.4 | Active | emea.centrelsolutionsdemo.int |

1 Job Statuses

| Display Name | Status | Last Run Date/Time |
|--|--------|------------------------------------|
| Group provisioning to Active Directory | Active | Wednesday, July 8, 2026 1:05:26 PM |

Scoping Filters

Scoping filters in Microsoft Entra Cloud Sync are conditional rules that determine which directory objects are included in a given sync flow.

 **Groups**

| | |
|---------------------|---------------------|
| Groups Scope | All security groups |
|---------------------|---------------------|

 **Target Container**

| | |
|-------------------------|---|
| Target Container | CN=Users,DC=emea,DC=centrelsolutionsdemo,DC=int |
|-------------------------|---|


 **1 Attribute Filters**

| Clause | Name | Scoping Phrase |
|--------|-----------------------------|----------------|
| | Cloud Owned Security Groups | |

Object Mappings

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

2 Object Mappings

| Source Object Name | Target Object Name | Enabled |
|---|--------------------|---------|
|  Group | group | True |
|  User | user | True |

Group

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.










General

| | |
|---------------------------|-------|
| Source Object Name | Group |
| Target Object Name | group |
| Enabled | True |

Group Attribute Mappings

Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

9 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|---|---|
|  adminDescription | Expression | Append("Group_", [objectId]) | |
|  cn | Expression | Append(Append(Left(Trim([displayName]), 51), "_"), Mid([objectId], 25, 12)) | |
|  description | Expression | Left(Trim([description]), 448) | |
|  displayName | Direct | displayName | |
|  isSecurityGroup | Constant | "True" | |
|  member | Direct | members | |
|  msDS-ExternalDirectoryObjectId | Expression | Append("Group_", [objectId]) | |
|  parentDistinguishedName | Constant | "CN=Users,DC=emea,DC=centrelsolutionsdemo,DC=int" | CN=Users,DC=emea,DC=centrelsolutionsdemo,DC=int |
|  universalScope | Constant | "True" | |

User

Object mappings in Microsoft Entra Cloud Sync define how attributes from on-premises Active Directory objects (such as users or groups) are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

General

| | |
|---------------------------|------|
| Source Object Name | User |
| Target Object Name | user |
| Enabled | True |

User Attribute Mappings

Attribute mappings in Microsoft Entra Cloud Sync define how attributes from the specified on-premises Active Directory object are matched, transformed, and synchronized with their corresponding objects in Entra ID, and where supported, how selected attributes flow back from Entra ID to Active Directory.

1 Attribute Mappings

| Target Attribute Name | Source Type | Source Value | Default Value |
|--|-------------|-----------------------------|---------------|
|  msDS-ExternalDirectoryObjectId | Expression | Append("User_", [objectId]) | |

About XIA Configuration

XIA Configuration is an IT infrastructure audit and documentation tool that automates the process of collecting and documenting network configurations.