Overview User

**ManagedElement**
(See Core Model)

**Organization**
(See User Model (Organization))

**OrgUnit**
(See User Model (Organization))

**UserEntity**
(See User Model (Person))

**UserContact**
(See User Model (Person))

**Person**
(See User Model (Person))

**Role**
(See User Model (Group and Roles))

**Group**
(See User Model (Group and Roles))

**Collection**
(See Core Model)

**OtherOrganizationInformation**
(See User Model (Organization))

**OtherOrgUnitInformation**
(See User Model (Organization))

**OtherPersonInformation**
(See User Model (Organization))

**OtherRoleInformation**
(See User Model (Group and Roles))

**OtherGroupInformation**
(See User Model (Group and Roles))

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**Title**: User Schema 2.33.0

**Author**: WBEM Infrastructure & Protocols WG

**Date**: 4 June 2012

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- **Inheritance**
- **Association**
- **Aggregation**
- **Association with WEAK reference**
- **Aggregation with WEAK reference**
- **Composition Aggregation**

* Equivalent to: 0 .. n
Overview Services

EnabledLogicalElement
(See Core Model)

Service
(See Core Model)

SecurityService

AuthorizationService
(See User Model (Authorization Services))

PrivilegeManagementService
(See User Model (Authorization Services))

CredentialManagementService
(See User Model (Authentication Services))

CertificateAuthority
(See User Model (PublicKey))

Notary
(See User Model (Authentication Services))

KerberosKeyDistributionCenter
(See User Model (Kerberos))

LocalCredentialManagementService
(See User Model (Authentication Services))

KerberosKeyDistributionCenter
(See User Model (Kerberos))

AuthorizationService
(See User Model (Authorization Services))

AuthenticationService
(See User Model (Authentication Services))

VerificationService
(See User Model (Authentication Services))

IdentityManagementService
(See User Model (Authentication Services))

AccountManagementService
(See User Model (AccountManagementService))

SharedSecretService
(See User Model (SharedSecret))

StorageHardwareIDManagementService
(See User Model (Identity))

OrgEntityManagementService \{E\}

CredentialManagementSAP
(See User Model (Authentication Services))

ServiceAccessPoint
(See Core Model)

LocalCredentialManagementService
(See User Model (Authentication Services))

PrivilegeManagementService
(See User Model (Authorization Services))

CertificateAuthority
(See User Model (PublicKey))

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(See User Model (Authentication Services))

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(See User Model (Authentication Services))

ServiceAccessPoint
(See Core Model)
Page 4-28: Organization

CIM_User.vsd:
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[Diagram of the Organization class with its attributes and relationships]

OtherOrganizationInformation
- CreationClassName: string (key)
- Name: string (key)
- ObjectClass: String [ ]
- BusinessCategory: string [ ]
- Descriptions: string [ ]
- DestinationIndicator: string [ ]
- FacsimileTelephoneNumber: string [ ]
- InternationalISDNNumber: string [ ]
- LabeledURI: string [ ]
- LocalityName: string [ ]
- Mail: string [ ]
- Manager: string [ ]
- OrganizationName: string [ ]
- OtherMailbox: string [ ]
- PhysicalDeliveryOfficeName: string [ ]
- PostalAddress: string [ ]
- PostalCode: string [ ]
- PostOfficeBox: string [ ]
- PreferredDeliveryMethod: string
- RegisteredAddress: string [ ]
- SearchGuide: string [ ]
- SeeAlso: string [ ]
- StateOrProvince: string [ ]
- Street: string [ ]
- TelephoneNumber: string [ ]
- TeletexTerminalIdentifier: string [ ]
- TelexNumber: string [ ]
- ThumbnailLogo: string [ ] (octetstring)
- UniqueIdentifier: string [ ]
- UserPassword: string [ ] (octetstring)
- X121Address: string [ ]

Organization
- CreationClassName: string (Key)
- Name: string (Key)
- BusinessCategory: string
- FacsimileTelephoneNumber: string
- LocalityName: string
- Mail: string
- OrganizationName: string (Req’d)
- PostalAddress: string [ ]
- PostalCode: string
- StateOrProvince: string
- TelephoneNumber: string

OrgStructure

Collection
(See Core Model)

CollectionIn
Organization

OrgUnit
- CreationClassName: string (key)
- Name: string (key)
- BusinessCategory: string
- FacsimileTelephoneNumber: string
- InternationalISDNNumber: string
- LocalName: string
- OU: string [ ]
- PhysicalDeliveryOfficeName: string [ ]
- PostalAddress: string [ ]
- PostalCode: string [ ]
- PostOfficeBox: string [ ]
- PreferredDeliveryMethod: string
- SearchGuide: string [ ]
- SeeAlso: string [ ]
- StateOrProvince: string [ ]
- Street: string [ ]
- TelephoneNumber: string [ ]
- TeletexTerminalIdentifier: string [ ]
- TelexNumber: string [ ]
- UserPassword: string [ ] (octetstring)
- X121Address: string [ ]
AccountManagement Capabilities

- OperationsSupported: uint16
- OtherSupportedUserPasswordEncryptionAlgorithms: string
- SupportedUserPasswordEncryptionAlgorithms: uint16
- UserPasswordEncryptionSalt: string
- MaximumAccountsSupported: uint16
- SupportedUserPasswordEncodings: uint16

AccountSettingData (E)

- PasswordHistoryDepth: uint16
- MaximumPasswordExpiration: datetime
- ComplexPasswordRulesEnforced: uint16
- InactivityTimeout: datetime
- MaximumSuccessiveLoginFailures: uint16

ElementCapabilities

- PasswordHistoryDepth: uint16
- MaximumPasswordExpiration: datetime
- ComplexPasswordRulesEnforced: uint16
- InactivityTimeout: datetime
- MaximumSuccessiveLoginFailures: uint16

SettingsDefineCapabilities

- PasswordHistoryDepth: uint16
- MaximumPasswordExpiration: datetime
- ComplexPasswordRulesEnforced: uint16
- InactivityTimeout: datetime
- MaximumSuccessiveLoginFailures: uint16
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**SecuritySensitivity**
- InstanceID: string {override, key}
- SecurityLevel: string
- SecurityCategories: string [] {E}
- LabelExpiration: datetime {99991231115959.999999-720, E}

**Privilege**
- InstanceID: string {key}
- PrivilegeGranted: boolean {True}
- Activities: uint16 []
- ActivityQualifiers: string []
- QualifierFormats: uint16 []
- RepresentsAuthorizationRights: boolean {False}

**AuthorizedPrivilege**

**ManagedElement**
- (See Core Model)

**ElementSecuritySensitivity**
AccountCapabilities

PasswordHistoryDepth: uint16
MaximumPasswordExpiration: datetime
DisableOnInactivity: boolean
ComplexPasswordRulesEnforced: uint16

InactivityTimeout: datetime
MaximumSuccessiveLoginFailures uint16
LastLogin: datetime
UserPasswordEncryptionAlgorithm: uint16 (Enum)
OtherUserPasswordEncryptionAlgorithm: string
UserPasswordEncoding: uint32 (Enum)

AccountSettingData

PasswordHistory: uint16
MaximumPasswordAge: datetime
DisableOnInactivity: boolean
ComplexPasswordRulesEnforced: uint16

InactivityTimeout: datetime
MaximumSuccessiveLoginFailures uint16
LastLogin: datetime
UserPasswordEncryptionAlgorithm: uint16 (Enum)
OtherUserPasswordEncryptionAlgorithm: string
UserPasswordEncoding: uint32 (Enum)
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ManagedElement
(See Core Model)

Credential
(See User Model (Credential))

ManagedSystemElement
(See Core Model)

LogicalElement
(See Core Model)

EnabledLogicalElement
(See Core Model)

Service
(See Core Model)

SecurityService
(See User Model (Overview Security))

AuthenticationService
(See User Model (Authentication Services))

CredentialManagementService
(See User Model (Authentication Services))

KerberosKeyDistributionCenter
Protocol: uint16 (enum)

InstanceID: string (key)
AccessesService: string
RemoteID: string
TicketType: uint16 (enum)

Trust Hierarchy
0..1

ServiceAffectsElement

KerberosCredential
CreateCertificateSigningRequest:
IN Subject: string, IN AllSubject: string,
IN PublicKeyAlgorithm: uint16 (enum), IN PublicKeySize: uint16 (enum),
IN PublicKeyKeyPair: ref CIM_UnsignedCredential,
IN ExtendedKeyUsageValue: string[], IN ExtendedKeyUsageType: string[] (enum),
IN SignatureAlgorithm: uint16 (enum), IN OutputFormat: uint16 (enum),
[OUT] Job: ref CIM_ConcreteJob, [OUT] CSR: string[]:
uint32 (enum)

CreateSelfSignedCertificate:
IN Subject: string, IN AllSubject: string,
IN PublicKeyAlgorithm: uint16 (enum), IN PublicKeySize, uint16,
IN PublicKeyKeyPair: ref CIM_UnsignedCredential, IN Keystore: ref CIM_Keystore,
IN CredentialContext: ref CIM_ManagedElement, IN Usage: uint16 (enum),
IN SignatureAlgorithm: uint16 (enum), [OUT] Job: ref CIM_ConcreteJob,
[OUT] SelfSignedCertificate: ref CIM_X509Certificate:
uint32 (enum)

ImportEncodedCertificates:
IN EncodedCertificates: string[], IN Format: uint16 (enum),
IN Keystore: ref CIM_Keystore, IN CredentialContext: ref CIM_ManagedElement,
IN Usage: uint16[] (enum), [OUT] Job: ref CIM_ConcreteJob,
[OUT] NewCertificates: ref CIM_X509Certificate[]:
uint32 (enum)

ImportCertificates:
IN InputCertificates: string[], IN Keystore: ref CIM_Keystore,
IN CredentialContext: ref CIM_ManagedElement, IN Usage: uint16[] (enum),
[OUT] Job: ref CIM_ConcreteJob,
[OUT] NewCertificates: ref CIM_X509Certificate[]:
uint32 (enum)

ExportEncodedCertificates:
IN CertificatesToExport: ref CIM_X509Certificate[], IN Format: uint16 (enum),
[OUT] Job: ref CIM_ConcreteJob[], [OUT] EncodedCertificates: string[]:
uint32 (enum)

ApplyCRL:
IN EncodedCRL: string[], [OUT] NewCertificate: ref CIM_X509CRL,
IN Format: uint16 (enum), IN Keystore: ref CIM_Keystore,
IN CredentialContext: ref CIM_ManagedElement,
uint32 (enum)

ApplyDecodedCRL:
IN Issuer: string, IN SerialNumbers: string[], IN Keystore: ref CIM_Keystore,
IN CredentialContext: ref CIM_ManagedElement,
uint32 (enum)
Antecedent: ref ManagedElement (*)
Dependent: ref ManagedElement (*)

CAHasPublicCertificate
Antecedent: ref PublicKeyCertificate (*)
Dependent: ref CertificateAuthority (*)

TrustHierarchy
Antecedent: ref CredentialManagementService {0..1}
Dependent: ref CredentialManagementService (*)

CredentialContext
ElementInContext: ref Credential {key, *}
ElementProvidingContext: ref ManagedElement {key, *}
Usage: uint16
### CollectionInOrganization
- **Parent**: ref OrganizationalEntity (0..1)
- **Child**: ref Collection (*)

### CollectionInSystem
- **Parent**: ref System (0..1)
- **Child**: ref Collection (*)

### MemberOfCollection (from Core)
- **Collection**: ref Collection (*)
- **Member**: ref ManagedElement (*)

### OrgStructure
- **Parent**: ref OrganizationalEntity (0..1)
- **Child**: ref OrganizationalEntity (*)

### SystemComponent (from Core)
- **GroupComponent**: ref System (*)
- **PartComponent**: ref ManagedSystemElement (*)

### AccountOnSystem
- **GroupComponent**: ref System (1)
- **PartComponent**: ref Account {weak, *}

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**CredentialManagementService**  
(See User Model (Authentication Services))

**SharedSecretService**  
Algorithm: string  
Protocol: string

**LocalCredentialManagementService**  
(See User Model (Authentication Services))

**RemoteID**: string (key)  
**Secret**: string  
**Algorithm**: string  
**Protocol**: string  
**SharedSecret** (D)

**NamedSharedIKESecret** (D)

**LocalIdentity**: string (key)  
**LocalIdentityType**: uint16 (key, enum)  
**PeerIdentity**: string (key)  
**PeerIdentityType**: uint16 (key)  
**SharedSecretName**: string  
**IKESecretsNamed** (D)

**UnsignedPublicKey** (D)

**PublicKeyCertificate** (D)

**PublicKey** (uint8 [ ] octetstring)

**CAHasPublicCertificate**  
**CASignsPublicKeyCertificate** (D)

**CertificateAuthority**  
**CAHasPolicyStatement**: string  
**CRL**: string [ ] octetstring  
**CRLDistributionPoint**: string [ ]  
**CADistinguishedName**: string  
**CRLRefreshFrequency**: uint16  
**MaxChainLength**: uint8

**KerberosTicket** (D)

**AccessesService**: string (key)  
**RemoteID**: string (key)  
**TicketType**: uint16 (enum)  
**KDCIssuesKerberosTicket** (D)

**KerberosCredential**  
(See User Model (Kerberos))

**PublicIdentity**

**PrivateKey**

**Certificate**

**CAHasCertificate**: string  
**CASignsCertificate** (D)

**CertificateChain**

**CRL**

**KerberosKeyDistributionCenter**  
**Protocol**: uint16 (enum)
Deprecated Dependency

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Antecedent: ref ManagedElement (*)
Dependent: ref ManagedElement (*)

Antecedent: ref ManagedElement (*)
Dependent: ref ManagedElement (*)

Antecedent: ref CredentialManagementService {0..1}
Dependent: ref Credential (*)

Antecedent: ref CertificateAuthority {1}
Dependent: ref PublicKeyCertificate {W, *}
SerialNumber: string
Signature: uint8[ ] (octetstring)
Expires: datetime [D]
CRLDistributionPoint: string

Antecedent: ref KerberosKeyDistributionCenter {1}
Dependent: ref KerberosTicket {W, *}
KDCIssuesKerberosTicket {D}

Antecedent: ref PublicKeyManagementService {1}
Dependent: ref UnsignedPublicKey {W, *}
LocallyManagedPublicKey {D}

Antecedent: ref SharedSecretService {1}
Dependent: ref NamedSharedIKESecret {W, *}
IKESecretsIsNamed {D}

Antecedent: ref SharedSecretService {1}
Dependent: ref SharedSecret {W, *}
SharedSecretsIsShared {D}