1 System.Net.CredentialCache Class

```
[ILAsm]
.class public CredentialCache extends System.Object implements
System.Net.ICredentials, System.Collections.IEnumerable


[C#]
public class CredentialCache: ICredentials, IEnumerable
```

Assembly Info:

- *Name:* System
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
    - CLSCompliantAttribute(true)

Implements:

- **System.Net.ICredentials**
- **System.Collections.IEnumerable**

Summary

Provides storage for multiple credentials.

Inherits From: System.Object

Library: Networking

Thread Safety: All public static members of this type are safe for multithreaded operations.
No instance members are guaranteed to be thread safe.

Description

The System.Net.CredentialCache class stores credentials for multiple Internet
resources. Applications that need to access multiple resources can store the credentials
for those resources in a System.Net.CredentialCache instance that then provides the
proper set of credentials for a given resource when required. When the
System.Net.CredentialCache.GetCredential method is called, it compares the URI
and authentication type provided with those stored in the cache, and returns the first set
of credentials that match.

1 CredentialCache() Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor()

[C#]
public CredentialCache()
```

6 Summary

7 Constructs and initializes a new instance of the System.Net.CredentialCache class.

8 Description

9 This constructor creates a System.Net.CredentialCache instance with its
10 System.Net.CredentialCache.DefaultCredentials property initialized to the system
11 credentials of the current process.
12
13 [*Note:* Use the System.Net.CredentialCache.Add method to add additional credentials
14 to the System.Net.CredentialCache instance.]
15
16

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CredentialCache.Add(System.Uri, System.String, System.Net.NetworkCredential) Method

```
[ILAsm]
.method public hidebysig instance void Add(class System.Uri uriPrefix,
string authType, class System.Net.NetworkCredential cred)


[C#]
public void Add(Uri uriPrefix, string authType, NetworkCredential cred)
```

Summary

Adds a `System.Net.NetworkCredential` instance to the credential cache.

Parameters

Parameter	Description
uriPrefix	A `System.Uri` that contains the URI prefix of resources to which *cred* grants access.
authType	A `System.String` containing the authentication type used by the resource named in *uriPrefix*. This string is required to be identical to the `System.Net.IAuthenticationModule. AuthenticationType` of the authentication module that uses the credential.
cred	A `System.Net.NetworkCredential` to add to the credential cache.

Description

The cache stores credentials in the order in which they are added.

[*Note:* Use the `System.Net.CredentialCache.GetCredential` method to retrieve `System.Net.NetworkCredential` instances.]

Exceptions

Exception	Condition
System.ArgumentNullException	The *uriPrefix* or *authType* parameter is `null`.

System.ArgumentException	The cache already contains a credential for the specified *uriPrefix* and *authType.*

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1 CredentialCache.GetCredential(System.Uri,
2 System.String) Method

```
[ILAsm]
.method public final hidebysig virtual class System.Net.NetworkCredential
GetCredential(class System.Uri uriPrefix, string authType)


[C#]
public NetworkCredential GetCredential(Uri uriPrefix, string authType)
```

8 Summary

9 Returns the `System.Net.NetworkCredential` instance associated with a URI and
10 authentication type.

11 Parameters

Parameter	Description
uriPrefix	A `System.Uri` that contains the URI prefix of resources for which the client will be authenticated.
authType	A `System.String` containing the authentication type used by the resource named in *uriPrefix*. This string is required to be identical to the `System.Net.IAuthenticationModule. AuthenticationType` of the authentication module that uses the credential.

12
13 Return Value

14 A `System.Net.NetworkCredential`, or `null` if there is no matching credential in the
15 cache.

16 Description

17 This method searches the `System.Net.CredentialCache` and returns the
18 `System.Net.NetworkCredential` instance for the specified URI prefix and
19 authentication type. This method uses the longest matching URI prefix in the cache to
20 determine which credentials to return for an authentication type.
21
22 [*Note:* The following table shows the matches for a set of URI prefixes (assuming the
23 URI prefixes are all cached for the specified authentication type).

URI Prefix	Matches
http://www.contoso.com/portal/news.htm	Matches only requests for

	http://www.contoso.com/portal/news.htm.
http://www.contoso.com/portal/	Matches requests for all resources in the portal path, except for requests for the http://www.contoso.com/portal/news.htm page.
http://www.contoso.com/	Matches requests for all resources at www.contoso.com, except those in the portal path.

1
2   ]

3   **Exceptions**

Exception	Condition
System.ArgumentNullException	The *uriPrefix* or *authType* parameter is `null`.

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CredentialCache.GetEnumerator() Method

```
[ILAsm]
.method public final hidebysig virtual class
System.Collections.IEnumerator GetEnumerator()


[C#]
public IEnumerator GetEnumerator()
```

Summary

Returns an enumerator that iterates through credentials stored in the current
System.Net.CredentialCache instance.

Return Value

A System.Collections.IEnumerator for the current System.Net.CredentialCache
instance.

1 CredentialCache.Remove(System.Uri,
2 System.String) Method

3 ```
[ILAsm]
```
4 `.method public hidebysig instance void Remove(class System.Uri uriPrefix,`
5 `string authType)`

6 ```
[C#]
```
7 `public void Remove(Uri uriPrefix, string authType)`

8 Summary

9 Deletes a `System.Net.NetworkCredential` instance from the cache.

10 Parameters

Parameter	Description
uriPrefix	A `System.Uri` that specifies the resources for which the credential is used.
authType	A `System.String` containing the authentication type used by the resource named in *uriPrefix*. This string is required to be identical to the `System.Net.IAuthenticationModule. AuthenticationType` of the authentication module that uses the credential.

11

12 Description

13 The `System.Net.CredentialCache.Remove` method locates and removes the
14 `System.Net.NetworkCredential` instance that is cached for the specified URI prefix and
15 authentication type. If there is no match found in the cache for the specified values, this
16 method has no effect. The *uriPrefix* and *authType* values are required to exactly match
17 the values supplied at the time the credential was added to the cache. [*Note:* For
18 additional information, see `System.Net.CredentialCache.Add`.]
19
20

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CredentialCache.DefaultCredentials Property

```
[ILAsm]
.property class System.Net.ICredentials DefaultCredentials { public
hidebysig static specialname class System.Net.ICredentials
get_DefaultCredentials() }

[C#]
public static ICredentials DefaultCredentials { get; }
```

Summary

Gets the system credentials in use for the current process.

Property Value

A `System.Net.ICredentials` instance that represents the system credentials in use for the current process.

Description

This property is read-only.

Permissions

Permission	Description
System.Security.Permissions. EnvironmentPermission	Requires read access to the environment variable that contains the user name. See `System.Security.Permissions. EnvironmentPermissionAccess.Read`.