System.Net.IPEndPoint Class

```
[ILASM]
.class public serializable IPEndPoint extends
System.Net.EndPoint

[C#]
public class IPEndPoint: EndPoint
```

Assembly Info:

- *Name:* System
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
    - CLSCompliantAttribute(true)

Summary

Represents a network endpoint as an Internet Protocol (IP) address and a port number.

Inherits From: System.Net.EndPoint

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.IPEndPoint** class contains the IP address of a host system and the number of a port to access on the host. The **System.Net.IPEndPoint** class represents a connection point used by the **System.Net.Sockets.Socket** class.

IPEndPoint(System.Int64, System.Int32) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(int64
address, int32 port)

[C#]
public IPEndPoint(long address, int port)
```

Summary

Constructs and initializes a new instance of the **System.Net.IPEndPoint** class with the specified address and port number.

Parameters

Parameter	Description
address	A **System.Int64** containing the IP address of the endpoint.
port	A **System.Int32** containing the port number to use when accessing *address*. Specify zero to indicate any available port.

Exceptions

Exception	Condition
System.ArgumentOutOfRangeException	*port* is less than **System.Net.IPEndPoint.MinPort** or greater than **System.Net.IPEndPoint.MaxPort**. A negative number was specified for *address*.

IPEndPoint(System.Net.IPAddress, System.Int32) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(class
System.Net.IPAddress address, int32 port)

[C#]
public IPEndPoint(IPAddress address, int port)
```

Summary

Constructs and initializes a new instance of the **System.Net.IPEndPoint** class with the specified address and port number.

Parameters

Parameter	Description
address	A **System.Net.IPAddress** instance containing the IP address of the endpoint.
port	The port number to use when accessing *address*. Specify zero to indicate any available port.

Exceptions

Exception	Condition
System.ArgumentNullException	*address* is **null**.
System.ArgumentOutOfRangeException	*port* is less than **System.Net.IPEndPoint.MinPort** or greater than **System.Net.IPEndPoint.MaxPort**.

IPEndPoint.MaxPort Field

[ILASM]

```
.field public static literal int32 MaxPort = 65535
```

[C#]

```
public const int MaxPort = 65535
```

Summary

Specifies the maximum value that can be assigned to the **System.Net.IPEndPoint.Port** property.

Description

This field is read-only. The value of this field is 65535.

IPEndPoint.MinPort Field

[ILASM]
```
.field public static literal int32 MinPort = 0
```

[C#]
```
public const int MinPort = 0
```

Summary

Specifies the minimum value that can be assigned to the **System.Net.IPEndPoint.Port** property.

Description

This field is read-only. The value of this field is zero.

IPEndPoint.Create(System.Net.SocketAddress) Method

[ILASM]
```
.method public hidebysig virtual class System.Net.EndPoint
Create(class System.Net.SocketAddress socketAddress)
```

[C#]
```
public override EndPoint Create(SocketAddress
socketAddress)
```

Summary

Returns a new **System.Net.IPEndPoint** instance containing the address information from the specified **System.Net.SocketAddress** instance.

Parameters

Parameter	Description
socketAddress	A **System.Net.SocketAddress** instance that provides the address information for the new **System.Net.IPEndPoint** instance.

Return Value

A new **System.Net.IPEndPoint** instance containing the address information from the specified **System.Net.SocketAddress** instance.

Description

[*Note:* This method overrides **System.Net.EndPoint.Create**.]

Exceptions

Exception	Condition
System.ArgumentException	The **AddressFamily** of the specified **System.Net.SocketAddress** is not equal to the **AddressFamily** of the current instance.

IPEndPoint.Equals(System.Object) Method

[ILASM]

```
.method public hidebysig virtual bool Equals(object comparand)
```

[C#]

```
public override bool Equals(object comparand)
```

Summary

Determines whether the current instance and the specified **System.Object** represent the same type and value.

Parameters

Parameter	Description
comparand	The **Object** to compare to the current instance.

Return Value

true if *comparand* represents the same endpoint as the current instance. If *comparand* is a **null** reference or is not an instance of **System.Net.IPEndPoint**, returns **false**.

Description

Two **System.Net.IPEndPoint** instances are equal if their **System.Net.IPEndPoint.Address** and **System.Net.IPEndPoint.Port** properties contain the same values.

[*Note:* This method overrides **System.Object.Equals**.]

IPEndPoint.GetHashCode() Method

[ILASM]

```
.method public hidebysig virtual int32 GetHashCode()
```

[C#]

```
public override int GetHashCode()
```

Summary

Generates a hash code for the current instance.

Return Value

A **System.Int32** containing the hash code for the current instance.

Description

The algorithm used to generate the hash code is unspecified.

[*Note:* This method overrides **System.Object.GetHashCode**.]

IPEndPoint.ToString() Method

[ILASM]
```
.method public hidebysig virtual string ToString()
```

[C#]
```
public override string ToString()
```

Summary

Returns a **System.String** representation of the value of the current instance.

Return Value

A **System.String** containing the IP address, in dotted-quad notation, followed by a colon and the port number for the specified endpoint, for example, 127.0.0.1:80.

Description

[*Note:* This method overrides **System.Object.ToString**.]

IPEndPoint.Address Property

[ILASM]

```
.property class System.Net.IPAddress Address { public
hidebysig specialname instance class System.Net.IPAddress
get_Address() public hidebysig specialname instance void
set_Address(class System.Net.IPAddress value) }
```

[C#]

```
public IPAddress Address { get; set; }
```

Summary

Gets or sets the IP address of the endpoint.

Property Value

A **System.Net.IPAddress** instance containing the IP address of the end point.

IPEndPoint.AddressFamily Property

[ILASM]

```
.property valuetype System.Net.Sockets.AddressFamily
AddressFamily { public hidebysig virtual specialname
valuetype System.Net.Sockets.AddressFamily
get_AddressFamily() }
```

[C#]

```
public override AddressFamily AddressFamily { get; }
```

Summary

Gets the Internet Protocol (IP) address family.

Property Value

Returns **System.Net.Sockets.AddressFamily.InterNetwork**.

Description

This property is read-only.

IPEndPoint.Port Property

[ILASM]
```
.property int32 Port { public hidebysig specialname
instance int32 get_Port() public hidebysig specialname
instance void set_Port(int32 value) }
```

[C#]
```
public int Port { get; set; }
```

Summary

Gets or sets the port number of the endpoint.

Property Value

A **System.Int32** value that is between **System.Net.IPEndPoint.MinPort** and **System.Net.IPEndPoint.MaxPort** inclusive.

Exceptions

Exception	Condition
System.ArgumentOutOfRangeException	The value specified for a set operation was less than **System.Net.IPEndPoint.MinPort** or greater than **System.Net.IPEndPoint.MaxPort**.