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:* 2.0.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`.