

System.Net.Sockets.MulticastOption Class

```
[ILASM]
.class public MulticastOption extends System.Object

[C#]
public class MulticastOption
```

Assembly Info:

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

Summary

Contains Internet Protocol (IP) addresses used when joining or leaving an IP multicast group.

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

Collectively, the hosts listening to a specific IP multicast address (the group address) are called a multicast group. Each member of the group receives any IP messages sent to the group address.

An instance of this class is passed into the **System.Net.Sockets.Socket.SetSocketOption** method and returned by the **System.Net.Sockets.Socket.GetSocketOption** method when the *optionName* parameter is set to **System.Net.Sockets.SocketOptionName.AddMembership** or **System.Net.Sockets.SocketOptionName.DropMembership**.

MulticastOption(System.Net.I PAddress, System.Net.I PAddress) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(class
System.Net.I PAddress group, class System.Net.I PAddress
mcint)

[C#]
public MulticastOption(IPAddress group, IPAddress mcint)
```

Summary

Constructs and initializes a new instance of the **System.Net.Sockets.MulticastOption** class with the specified IP multicast group and local addresses.

Parameters

Parameter	Description
<i>group</i>	An instance of System.Net.I PAddress containing the group IP address.
<i>mcint</i>	An instance of System.Net.I PAddress containing the local IP address.

Description

The **System.Net.Sockets.MulticastOption.Group** property is set to *group* and the **System.Net.Sockets.MulticastOption.LocalAddress** property is set to *mcint*.

Exceptions

Exception	Condition
System.ArgumentNullException	<i>group</i> or <i>mcint</i> is null .

MulticastOption(System.Net.I PAddress)

Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(class
System.Net.I PAddress group)

[C#]
public MulticastOption(I PAddress group)
```

Summary

Constructs and initializes a new instance of the **System.Net.Sockets.MulticastOption** class with the specified IP multicast group address.

Parameters

Parameter	Description
<i>group</i>	An instance of System.Net.I PAddress containing the IP address of a multicast group.

Description

This constructor initializes the **System.Net.Sockets.MulticastOption.Group** property of the new instance using *group*. The **System.Net.Sockets.MulticastOption.LocalAddress** property is initialized to **System.Net.I PAddress.Any**. **Any** allows the protocol to decide which local IP address to use.

Exceptions

Exception	Condition
System.ArgumentNullException	<i>group</i> is null .

MulticastOption.Group Property

```
[ILASM]
.property class System.Net.IPAddress Group { public
hidebysig specialname instance class System.Net.IPAddress
get_Group() public hidebysig specialname instance void
set_Group(class System.Net.IPAddress value) }

[C#]
public IPAddress Group { get; set; }
```

Summary

Gets or sets the IP address of a multicast group.

Property Value

An instance of **System.Net.IPAddress** containing the IP address of a multicast group.

Description

Collectively, the hosts listening to a specific IP multicast address are called a multicast group. Each member of the group receives any IP messages sent to this address.

[Note: Valid IP addresses for multicast groups are in the range 224.0.0.0 to 239.255.255.255 with some addresses reserved for special purposes.]

1 MulticastOption.LocalAddress Property

```
2 [ILASM]
3 .property class System.Net.IPAddress LocalAddress { public
4 hidebysig specialname instance class System.Net.IPAddress
5 get_LocalAddress() public hidebysig specialname instance
6 void set_LocalAddress(class System.Net.IPAddress value) }

7 [C#]
8 public IPAddress LocalAddress { get; set; }
```

9 Summary

10 Gets or sets the local IP address to receive data.

11 Property Value

12

13 An instance of **System.Net.IPAddress** containing the local IP
14 address.

15 Description

16 This property specifies the local IP address used to receive data sent
17 to the multicast group.

18