

System.Net.Sockets.SocketOptionName Enum

```
[ILASM]
.class public sealed serializable SocketOptionName extends
System.Enum

[C#]
public enum SocketOptionName
```

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

Specifies option names for use in the **System.Net.Sockets.Socket.SetSocketOption** and **System.Net.Sockets.Socket.GetSocketOption** methods of the **System.Net.Sockets.Socket** class.

Inherits From: System.Enum

Library: Networking

Description

Socket options determine the behavior of an instance of the **System.Net.Sockets.Socket** class. Some socket options apply only to specific protocols while others apply to all types. Members of the **System.Net.Sockets.SocketOptionLevel** enumeration specify which protocol applies to a specific socket option.

1 SocketOptionName.AcceptConnection 2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName AcceptConnection = 2  
  
6 [C#]  
7 AcceptConnection = 2
```

8 Summary

9 **System.Net.Sockets.Socket.Listen** has been called on the socket.
10
11 The value associated with this option is a **System.Boolean** data type.
12
13 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.AddMembership Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName AddMembership = 12  
  
5 [C#]  
6 AddMembership = 12
```

7 Summary

8 Add an IP group membership.

9

10 The value associated with this option is an instance of the
11 **System.Net.Sockets.MulticastOption** class.

12

13 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.AddSourceMembershi 2 p Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName AddSourceMembership =  
6 15  
  
7 [C#]  
8 AddSourceMembership = 15
```

9 Summary

10 Join a source group.

11
12 The value associated with this option is an instance of the
13 **System.Net.IPAddress** class.

14
15 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
16 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
17 this option.

18

1 SocketOptionName.BlockSource Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName BlockSource = 17  
  
5 [C#]  
6 BlockSource = 17
```

7 Summary

8 Block data from a source.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.Broadcast Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Broadcast = 32  
  
5 [C#]  
6 Broadcast = 32
```

7 Summary

8 Permit sending broadcast messages on the socket.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.BsdUrgent Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName BsdUrgent = 2  
  
5 [C#]  
6 BsdUrgent = 2
```

7 Summary

8 Use urgent data as defined by IETF RFC 1222. This option can be set
9 only once, and once set, cannot be turned off.

10
11 The value associated with this option is a **System.Boolean** data type.
12

13 The **System.Net.Sockets.SocketOptionLevel.Tcp** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.ChecksumCoverage

2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName ChecksumCoverage = 20  
  
6 [C#]  
7 ChecksumCoverage = 20
```

8 Summary

9 Set or get UDP checksum coverage.

10
11 The value associated with this option is a **System.Boolean** data type.

12
13 The **System.Net.Sockets.SocketOptionLevel.Udp** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.Debug Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Debug = 1  
  
5 [C#]  
6 Debug = 1
```

7 Summary

8 Record debugging information when available.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.DontFragment Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName DontFragment = 14  
  
5 [C#]  
6 DontFragment = 14
```

7 Summary

8 Do not fragment IP datagrams.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.DontLinger Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName DontLinger = -129  
  
5 [C#]  
6 DontLinger = -129
```

7 Summary

8 Close socket gracefully without lingering.

9
10 The value associated with this option is a **System.Boolean** data type.

11
12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.DontRoute Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName DontRoute = 16  
  
5 [C#]  
6 DontRoute = 16
```

7 Summary

8 Do not route; send directly to interface addresses.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.DropMembership Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName DropMembership = 13  
  
5 [C#]  
6 DropMembership = 13
```

7 Summary

8 Drop an IP group membership.

9

10 The value associated with this option is an instance of the
11 **System.Net.Sockets.MulticastOption** class.

12

13 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.DropSourceMembershi 2 p Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName DropSourceMembership =  
6 16  
  
7 [C#]  
8 DropSourceMembership = 16
```

9 Summary

10 Drop a source group.

11
12 The value associated with this option is an instance of the
13 **System.Net.IPAddress** class.

14
15 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
16 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
17 this option.

18

1 SocketOptionName.Error Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Error = 4103  
  
5 [C#]  
6 Error = 4103
```

7 Summary

8 Get the error status code, then clear the code.

9

10 The value associated with this option is a **System.Int32** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.ExclusiveAddressUse 2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName ExclusiveAddressUse = -  
6 5  
  
7 [C#]  
8 ExclusiveAddressUse = -5
```

9 Summary

10 Enable a socket to be bound for exclusive access.
11
12 The value associated with this option is a **System.Boolean** data type.
13
14 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
15 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
16 this option.
17

1 SocketOptionName.Expedited Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Expedited = 2  
  
5 [C#]  
6 Expedited = 2
```

7 Summary

8 Use expedited data as defined by IETF RFC 1222. This option can be
9 set only once, and once set, cannot be turned off.

10
11 The value associated with this option is a **System.Boolean** data type.

12
13 The **System.Net.Sockets.SocketOptionLevel.Tcp** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.HeaderIncluded Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName HeaderIncluded = 2  
  
5 [C#]  
6 HeaderIncluded = 2
```

7 Summary

8 Application is providing the IP header for outgoing datagrams.

9
10 The value associated with this option is a **System.Boolean** data type.

11
12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.IPOptions Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName IPOptions = 1  
  
5 [C#]  
6 IPOptions = 1
```

7 Summary

8 Specifies IP options to be inserted into outgoing datagrams.

9

10 The value associated with this option is a **System.Byte** array.

11

12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.IpTimeToLive Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName IpTimeToLive = 4  
  
5 [C#]  
6 IpTimeToLive = 4
```

7 Summary

8 Set the IP header time-to-live field.

9

10 The value associated with this option is a **System.Int32** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.KeepAlive Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName KeepAlive = 8  
  
5 [C#]  
6 KeepAlive = 8
```

7 Summary

8 Send keep-alives.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.Linger Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Linger = 128  
  
5 [C#]  
6 Linger = 128
```

7 Summary

8 Linger on close if unsent data is present.

9

10 The value associated with this option is an instance of the
11 **System.Net.Sockets.LingerOption** class.

12

13 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.MaxConnections Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName MaxConnections =  
5 2147483647
```

```
6 [C#]  
7 MaxConnections = 2147483647
```

8 Summary

9 Maximum queue length that can be specified by
10 **System.Net.Sockets.Socket.Listen**.

11
12 The value associated with this option is a **System.Int32** data type.

13

1 SocketOptionName.MulticastInterface 2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName MulticastInterface = 9  
  
6 [C#]  
7 MulticastInterface = 9
```

8 Summary

9 Set the interface for outgoing multicast packets.

10
11 The value associated with this option is a **System.Byte** array.

12
13 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.MulticastLoopback

2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName MulticastLoopback = 11  
  
6 [C#]  
7 MulticastLoopback = 11
```

8 Summary

9 IP multicast loopback.

10
11 The value associated with this option is a **System.Boolean** data type.

12
13 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.MulticastTimeToLive

2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName MulticastTimeToLive =  
6 10  
  
7 [C#]  
8 MulticastTimeToLive = 10
```

9 Summary

10 IP multicast time to live.
11
12 The value associated with this option is a **System.Int32** data type.
13
14 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
15 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
16 this option.
17

1 SocketOptionName.NoChecksum Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName NoChecksum = 1  
  
5 [C#]  
6 NoChecksum = 1
```

7 Summary

8 Send UDP datagrams with checksum set to zero.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Udp** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.NoDelay Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName NoDelay = 1  
  
5 [C#]  
6 NoDelay = 1
```

7 Summary

8 Disable the Nagle algorithm for send coalescing.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Tcp** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.OutOfBandInline Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName OutOfBandInline = 256  
  
5 [C#]  
6 OutOfBandInline = 256
```

7 Summary

8 Receive out-of-band data in the normal data stream.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.PacketInformation

2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName PacketInformation = 19  
  
6 [C#]  
7 PacketInformation = 19
```

8 Summary

9 Return information about received packets.

10

1 SocketOptionName.ReceiveBuffer Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName ReceiveBuffer = 4098  
  
5 [C#]  
6 ReceiveBuffer = 4098
```

7 Summary

8 Specifies the total per-socket buffer space reserved for receives. This
9 is unrelated to the maximum message size or the size of a TCP
10 window.

11
12 The value associated with this option is a **System.Int32** data type.

13
14 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
15 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
16 this option.

17

1 SocketOptionName.ReceiveLowWater

2 Field

```
3 [ILASM]  
4 .field public static literal valuetype  
5 System.Net.Sockets.SocketOptionName ReceiveLowWater = 4100  
  
6 [C#]  
7 ReceiveLowWater = 4100
```

8 Summary

9 Receive low water mark.

10
11 The value associated with this option is a **System.Int32** data type.

12

SocketOptionName.ReceiveTimeout Field

```
[ILASM]  
.field public static literal valuetype  
System.Net.Sockets.SocketOptionName ReceiveTimeout = 4102  
  
[C#]  
ReceiveTimeout = 4102
```

Summary

Specifies the maximum time, in milliseconds, the **System.Net.Sockets.Socket.Receive** and **System.Net.Sockets.Socket.ReceiveFrom** methods will block when attempting to receive data. If data is not received within this time, a **System.Net.Sockets.SocketException** exception is thrown.

The value associated with this option is a **System.Int32** data type.

The **System.Net.Sockets.SocketOptionLevel.Socket** value of the **System.Net.Sockets.SocketOptionLevel** enumeration applies to this option.

1 SocketOptionName.ReuseAddress Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName ReuseAddress = 4  
  
5 [C#]  
6 ReuseAddress = 4
```

7 Summary

8 Allow the socket to be bound to an address that is already in use.

9
10 The value associated with this option is a **System.Boolean** data type.

11
12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.SendBuffer Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName SendBuffer = 4097  
  
5 [C#]  
6 SendBuffer = 4097
```

7 Summary

8 Specifies the total per-socket buffer space reserved for sends. This is
9 unrelated to the maximum message size or the size of a TCP window.

10
11 The value associated with this option is a **System.Int32** data type.

12
13 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
14 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
15 this option.

16

1 SocketOptionName.SendLowWater Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName SendLowWater = 4099  
  
5 [C#]  
6 SendLowWater = 4099
```

7 Summary

8 Send low water mark.

9
10 The value associated with this option is a **System.Int32** data type.

11

1 SocketOptionName.SendTimeout Field

```
2 [ILASM]
3 .field public static literal valuetype
4 System.Net.Sockets.SocketOptionName SendTimeout = 4101
5
6 [C#]
7 SendTimeout = 4101
```

7 Summary

8 Specifies the maximum time, in milliseconds, the
9 **System.Net.Sockets.Socket.Send** and
10 **System.Net.Sockets.Socket.SendTo** methods will block when
11 attempting to send data. If data is not sent within this time, a
12 **System.Net.Sockets.SocketException** exception is thrown.

13
14 The value associated with this option is a **System.Int32** data type.

15
16 The **System.Net.Sockets.SocketOptionLevel.Socket** member of
17 the **System.Net.Sockets.SocketOptionLevel** enumeration applies to
18 this option.

19

1 SocketOptionName.Type Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName Type = 4104  
  
5 [C#]  
6 Type = 4104
```

7 Summary

8 Get the socket type, one of the members of the
9 **System.Net.Sockets.SocketType** enumeration.

10 The value associated with this option is a **System.Int32** data type.

11
12 The **System.Net.Sockets.SocketOptionLevel.Socket** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.
15

16

1 SocketOptionName.TypeOfService Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName TypeOfService = 3  
  
5 [C#]  
6 TypeOfService = 3
```

7 Summary

8 Change the IP header type of service field.

9
10 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
11 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
12 this option.

13

1 SocketOptionName.UnblockSource Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName UnblockSource = 18  
  
5 [C#]  
6 UnblockSource = 18
```

7 Summary

8 Unblock a previously blocked source.

9

10 The value associated with this option is a **System.Boolean** data type.

11

12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15

1 SocketOptionName.UseLoopback Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Net.Sockets.SocketOptionName UseLoopback = 64  
  
5 [C#]  
6 UseLoopback = 64
```

7 Summary

8 Bypass hardware when possible.

9
10 The value associated with this option is a **System.Boolean** data type.

11
12 The **System.Net.Sockets.SocketOptionLevel.IP** value of the
13 **System.Net.Sockets.SocketOptionLevel** enumeration applies to
14 this option.

15