

java.net.*

Socket

ServerSocket

```
ServerSocket ()
ServerSocket (int port)
ServerSocket (int port, int backlog)
ServerSocket (int port, int backlog, InetAddress bindAddr)

Static Methods
    void setSocketFactory (SocketImplFactory fac)

Accessors
ServerSocketChannel getChannel ()
InetAddress getInetAddress ()
int getLocalPort ()
SocketAddress getLocalSocketAddress ()
    int get / setReceiveBufferSize ()
    boolean get / setReuseAddress ()
    int get / setSoTimeout ()
    boolean isBound ()
    boolean isClosed ()

Object
    String toString ()

Other Methods
    Socket accept ()
    void bind (SocketAddress endpoint)
    void bind (SocketAddress endpoint, int backlog)
    void close ()
    # void implAccept (Socket s)
```

Socket

```
Socket ()
# Socket (SocketImpl impl)
Socket (String host, int port)
Socket (InetAddress address, int port)
Socket (String host, int port, InetAddress localAddr, int localPort)
Socket (InetAddress address, int port, InetAddress localAddr, int localPort)

Static Methods
    void setSocketImplFactory (SocketImplFactory fac)

Accessors
SocketChannel getChannel ()
InetAddress getInetAddress ()
InputStream getInputStream ()
    boolean get / setKeepAlive ()
InetAddress getLocalAddress ()
    int getLocalPort ()
SocketAddress getLocalSocketAddress ()
    boolean get / setOOBInline ()
OutputStream getOutputStream ()
    int getPort ()
    int get / setReceiveBufferSize ()
SocketAddress getRemoteSocketAddress ()
    boolean get / setReuseAddress ()
    int get / setSendBufferSize ()
    int getSoLinger ()
    int get / setSoTimeout ()
    boolean get / setTcpNoDelay ()
    int get / setTrafficClass ()
    boolean isBound ()
    boolean isClosed ()
    boolean isConnected ()
    boolean isInputShutdown ()
    boolean isOutputShutdown ()
    void setSoLinger (boolean on, int linger)

Object
    String toString ()

Other Public Methods
    void bind (SocketAddress bindpoint)
    void close ()
    void connect (SocketAddress endpoint)
    void connect (SocketAddress endpoint, int timeout)
    void sendUrgentData (int data)
    void shutdownInput ()
    void shutdownOutput ()
```

SocketOptions

```
Object get / setOption (int optID)

int TCP_NODELAY, SO_BINDADDR,
SO_REUSEADDR, SO_BROADCAST,
IP_MULTICAST_IF, IP_MULTICAST_IF2,
IP_MULTICAST_LOOP, IP_TOS,
SO_LINGER, SO_TIMEOUT,
SO_SNDBUF, SO_RCVBUF,
SO_KEEPALIVE, SO_OOBINLINE
```

SocketImpl

```
Accessors
# FileDescriptor getFileDescriptor ()
# InetAddress getInetAddress ()
# InputStream getInputStream ()
#    int getLocalPort ()
# OutputStream getOutputStream ()
#    int getPort ()

Object
    String toString ()

Other Protected Methods
#    void accept (SocketImpl s)
#    int available ()
#    void bind (InetAddress host, int port)
#    void close ()
#    void connect (String host, int port)
#    void connect (InetAddress address, int port)
#    void connect (SocketAddress address, int timeout)
#    void create (boolean stream)
#    void listen (int backlog)
#    void sendUrgentData (int data)
#    void shutdownInput ()
#    void shutdownOutput ()
#    boolean supportsUrgentData ()
```

DatagramSocketImpl

```
Accessors
# FileDescriptor getFileDescriptor ()
#    int getLocalPort ()
#    int get / setTimeToLive ()

Other Protected Methods
#    void bind (int lport, InetAddress laddr)
#    void close ()
#    void connect (InetAddress address, int port)
#    void create ()
#    void disconnect ()
#    void join (InetAddress inetaddr)
#    void joinGroup (SocketAddress mcastaddr, NetworkInterface netIf)
#    void leave (InetAddress inetaddr)
#    void leaveGroup (SocketAddress mcastaddr, NetworkInterface netIf)
#    int peek (InetAddress i)
#    int peekData (DatagramPacket p)
#    void receive (DatagramPacket p)
#    void send (DatagramPacket p)
```



DatagramSocket

DatagramSocket () ↴
DatagramSocket (DatagramSocketImpl impl)
DatagramSocket (SocketAddress bindaddr) ↴
DatagramSocket (int port) ↴
DatagramSocket (int port, InetAddress laddr) ↴

Static Methods
 void **setDatagramSocketImplFactory** (DatagramSocketImplFactory fac) ↴

Accessors
 boolean **get / setBroadcast** () ↴
 DatagramChannel **getChannel** ()
 InetAddress **getInetAddress** ()
 InetAddress **getLocalAddress** ()
 int **getLocalPort** ()
 SocketAddress **getLocalSocketAddress** ()
 int **getPort** ()
 int **get / setReceiveBufferSize** () ↴
 SocketAddress **getRemoteSocketAddress** ()
 boolean **get / setReuseAddress** () ↴
 int **get / setSendBufferSize** () ↴
 int **get / setSoTimeout** () ↴
 int **get / setTrafficClass** () ↴
 boolean **isBound** ()
 boolean **isClosed** ()
 boolean **isConnected** ()


Other Public Methods
 void **bind** (SocketAddress addr) ↴
 void **close** ()
 void **connect** (SocketAddress addr) ↴
 void **connect** (InetAddress address, int port)
 void **disconnect** ()
 void **receive** (DatagramPacket p) ↴
 void **send** (DatagramPacket p) ↴


DatagramPacket

DatagramPacket (byte buf[], int length)
DatagramPacket (byte buf[], int offset, int length)
DatagramPacket (byte buf[], int length, SocketAddress address) ↴
DatagramPacket (byte buf[], int offset, int length, SocketAddress address) ↴
DatagramPacket (byte buf[], int length, InetAddress address, int port)
DatagramPacket (byte buf[], int offset, int length, InetAddress address, int port)

InetAddress **get / setAddress** ()
 byte[] **get / setData** ()
 int **get / setLength** ()
 int **getOffset** ()
 int **get / setPort** ()
 SocketAddress **get / setSocketAddress** ()
 void **setData** (byte[] buf, int offset, int length)

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MulticastSocket

MulticastSocket () ↴
MulticastSocket (int port) ↴
MulticastSocket (SocketAddress bindaddr) ↴

Accessors
 InetAddress **get / setInterface** () ↴
 boolean **get / setLoopbackMode** () ↴
 NetworkInterface **get / setNetworkInterface** () ↴
 int **get / setTimeToLive** () ↴

Other Public Methods
 void **joinGroup** (InetAddress mcastaddr) ↴
 void **joinGroup** (SocketAddress mcastaddr, NetworkInterface netIf) ↴
 void **leaveGroup** (InetAddress mcastaddr) ↴
 void **leaveGroup** (SocketAddress mcastaddr, NetworkInterface netIf) ↴


SocketImplFactory

SocketImpl **createSocketImpl** ()


DatagramSocketImplFactory

DatagramSocketImpl **createDatagramSocketImpl** ()