

JSPacket

Property Summary

Number [#index](#)
Returns the current position in the byte array of the packet.

Method Summary

byte[] [#getByteArray\(\)](#)
Returns the content of the package into a byte array.

String [#getHost\(\)](#)
Returns the name of the host that sent the packet.

Number [#getLength\(\)](#)
Returns the length of the packet in bytes.

Number [#getPort\(\)](#)
Returns the port where the packet originated from.

Number [#readByte\(\)](#)
Reads an 8 bits byte value from the packet, starting from the current index.

Number [#readInt\(\)](#)
Reads a 32 bits int value from the packet, starting from the current index.

Number [#readShort\(\)](#)
Reads a 32 bits short value from the packet, starting from the current index.

String [#readUTF\(\[length\]\)](#)
Reads a UTF string from the packet, starting from the current index.

void [#writeByte\(number\)](#)
Writes one byte into the packet, at the current index.

void [#writeBytes\(array\)](#)
Writes an array of bytes into the packet, at the current index.

void [#writeInt\(number\)](#)
Writes a 32 bits int into the packet, at the current index.

void [#writeShort\(number\)](#)
Writes a 16 bits short value into the packet, at the current index.

Number [#writeUTF\(string\)](#)
Writes an UTF encoded string into the packet, at the current index.

Property Details

index
Returns the current position in the byte array of the packet. The next read/write operation will occur at this position.

Returns

Number

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('an int is: ' + packet.readInt());
        application.output('moved to index: ' + packet.index);
        application.output('a short is: ' + packet.readShort());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

Method Details

[getByteArray](#)

byte[] [getByteArray\(\)](#)

Returns the content of the package into a byte array.

Returns

byte[]

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        var bytes = packet.getByteArray();
        application.output('received a packet of length: ' + bytes.length);
        for (var i=0; i<bytes.length; i++)
            application.output(bytes[i]);
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

[getHost](#)

String [getHost\(\)](#)

Returns the name of the host that sent the packet.

Returns

String

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('message is: ' + packet.readUTF());
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

[getLength](#)

Number [getLength\(\)](#)

Returns the length of the packet in bytes.

Returns

Number

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('message is: ' + packet.readUTF());
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

[getPort](#)

Number [getPort\(\)](#)

Returns the port where the packet originated from.

Returns[Number](#)**Sample**

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('message is: ' + packet.readUTF());
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

readByte[Number](#) **readByte()**

Reads an 8 bits byte value from the packet, starting from the current index. Advances the index with one position.

Returns[Number](#)**Sample**

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('an int is: ' + packet.readInt());
        application.output('moved to index: ' + packet.index);
        application.output('a short is: ' + packet.readShort());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

readInt[Number](#) **readInt()**

Reads a 32 bits int value from the packet, starting from the current index. Advances the index with 4 positions.

Returns[Number](#)

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('an int is: ' + packet.readInt());
        application.output('moved to index: ' + packet.index);
        application.output('a short is: ' + packet.readShort());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

readShort

Number readShort()

Reads a 32 bits short value from the packet, starting from the current index. Advances the index with 2 positions.

Returns

Number

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('an int is: ' + packet.readInt());
        application.output('moved to index: ' + packet.index);
        application.output('a short is: ' + packet.readShort());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
        application.output('a byte is: ' + packet.readByte());
        application.output('moved to index: ' + packet.index);
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

readUTF

String readUTF([length])

Reads a UTF string from the packet, starting from the current index. If an argument is specified, then it represents the length of the string to read. If no argument is specified, then first a 32 bits int is read from the packet and that will be the length of the string. Advances the index with a number of positions that depends on the length of the read string.

Parameters

[length]

Returns

String

Sample

```
var packet;
while (packet = plugins.udp.getReceivedPacket()) {
    application.output('packet received from ' + packet.getHost() + ':' + packet.getPort());
    if (packet.getLength() > 0) {
        application.output('message is: ' + packet.readUTF());
    }
    else {
        application.output('end of communication. ');
        break;
    }
}
```

writeByte

void **writeByte**(number)

Writes one byte into the packet, at the current index. The index is advanced with one position.

Parameters

number

Returns

void

Sample

```
if (!plugins.udp.startSocket('5555', packetReceived)) {
    application.output('Failed to start socket. ');
} else {
    var packet = plugins.udp.createNewPacket();
    packet.writeUTF('hello world! ');
    plugins.udp.sendPacket('localhost', packet, 1234);
    packet = plugins.udp.createNewPacket();
    packet.writeByte(0xFF);
    packet.writeShort(10001);
    packet.writeInt(2000000001);
    plugins.udp.sendPacket('localhost', packet, 1234);
    var imgBytes = plugins.file.readFile('logo.jpg', 1024);
    packet = plugins.udp.createNewPacket();
    packet.writeBytes(imgBytes);
    plugins.udp.sendPacket('localhost', packet, 1234);
    plugins.udp.stopSocket();
}
```

writeBytes

void **writeBytes**(array)

Writes an array of bytes into the packet, at the current index. The index is advanced with a number of positions equal to the length of the written array.

Parameters

array

Returns

void

Sample

```
if (!plugins.udp.startSocket('5555', packetReceived)) {
    application.output('Failed to start socket.');
```

```
} else {
    var packet = plugins.udp.createNewPacket();
    packet.writeUTF('hello world!');
    plugins.udp.sendPacket('localhost', packet, 1234);
    packet = plugins.udp.createNewPacket();
    packet.writeByte(0xFF);
    packet.writeShort(10001);
    packet.writeInt(2000000001);
    plugins.udp.sendPacket('localhost', packet, 1234);
    var imgBytes = plugins.file.readFile('logo.jpg', 1024);
    packet = plugins.udp.createNewPacket();
    packet.writeBytes(imgBytes);
    plugins.udp.sendPacket('localhost', packet, 1234);
    plugins.udp.stopSocket();
}
```

writeInt

void **writeInt**(number)

Writes a 32 bits int into the packet, at the current index. The index is advances with 4 positions.

Parameters

number

Returns

void

Sample

```
if (!plugins.udp.startSocket('5555', packetReceived)) {
    application.output('Failed to start socket.');
```

```
} else {
    var packet = plugins.udp.createNewPacket();
    packet.writeUTF('hello world!');
    plugins.udp.sendPacket('localhost', packet, 1234);
    packet = plugins.udp.createNewPacket();
    packet.writeByte(0xFF);
    packet.writeShort(10001);
    packet.writeInt(2000000001);
    plugins.udp.sendPacket('localhost', packet, 1234);
    var imgBytes = plugins.file.readFile('logo.jpg', 1024);
    packet = plugins.udp.createNewPacket();
    packet.writeBytes(imgBytes);
    plugins.udp.sendPacket('localhost', packet, 1234);
    plugins.udp.stopSocket();
}
```

writeShort

void **writeShort**(number)

Writes a 16 bits short value into the packet, at the current index. The index is advances with 2 positions.

Parameters

number

Returns

void

Sample

```
if (!plugins.udp.startSocket('5555', packetReceived)) {
    application.output('Failed to start socket.');
```

```
} else {
    var packet = plugins.udp.createNewPacket();
    packet.writeUTF('hello world!');
    plugins.udp.sendPacket('localhost', packet, 1234);
    packet = plugins.udp.createNewPacket();
    packet.writeByte(0xFF);
    packet.writeShort(10001);
    packet.writeInt(2000000001);
    plugins.udp.sendPacket('localhost', packet, 1234);
    var imgBytes = plugins.file.readFile('logo.jpg', 1024);
    packet = plugins.udp.createNewPacket();
    packet.writeBytes(imgBytes);
    plugins.udp.sendPacket('localhost', packet, 1234);
    plugins.udp.stopSocket();
}
```

writeUTF

Number **writeUTF**(string)

Writes an UTF encoded string into the packet, at the current index. First the length of the string is written on 4 bytes, then the string is written. The index is advanced with a number of positions equal to the length of the string plus 4.

Parameters

string

Returns

Number

Sample

```
if (!plugins.udp.startSocket('5555', packetReceived)) {
    application.output('Failed to start socket.');
```

```
} else {
    var packet = plugins.udp.createNewPacket();
    packet.writeUTF('hello world!');
    plugins.udp.sendPacket('localhost', packet, 1234);
    packet = plugins.udp.createNewPacket();
    packet.writeByte(0xFF);
    packet.writeShort(10001);
    packet.writeInt(2000000001);
    plugins.udp.sendPacket('localhost', packet, 1234);
    var imgBytes = plugins.file.readFile('logo.jpg', 1024);
    packet = plugins.udp.createNewPacket();
    packet.writeBytes(imgBytes);
    plugins.udp.sendPacket('localhost', packet, 1234);
    plugins.udp.stopSocket();
}
```