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Welcome to the TinyBirdNet-Unity wiki!

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What is TinyBirdNet?

It's a high-level api built on top of LiteNetLib, this mean you can add network multiplayer to your games without having to directly touch difficult stuff like serialization, conversion to bits, message handling and others.

Why use TinyBirdNet?

Made as a substitute for UNet, TinyBirdNet offers a lot of familiar stuff like attributes for variable syncing, rpc/command calls and similar workflow, easing the migration of projects from Unet to it.

In relation to other similar products, TinyBirdNet offers full access to code, nothing is hidden from you, and you are free to modify the core functionality to better fit your project.

Besides being free for noncommercial use, there is no additional fee in the form of CCU, Bandwidth or others.

This page is directed to people who have never done networking multiplayer or those who are very new to it.

Basic concepts will be explained, if you feel you already have a good grasp of it, please proceed to the next tutorials.

Table of Contests

- Types of Networked Games
- How do Network?
- The Tricks
- The Data
- Client/Server Architecture

Types of Networked Games

TinyBirdNet uses a **Client/Server** archetype, this mean that each client is connected to a single server. So if a client wants to send information to another client it will first need to send it to the server, who will redirect the information.

While this may seem cumbersome, having a connection to each and every other client is in most cases not what you need and extremely difficult.

For imagine that you need to make sure all clients are able to connect to each other, have their ports open, handle any connection error, etc...

A good read about different types of networked games can be found here:

https://gafferongames.com/post/what_every_programmer_needs_to_know_about_game_networking/

How do Network?

So how exactly is networking multiplayer implemented in games? Is the video streamed to the players? Do we just keep sending every possible information to everyone? Is it the cloud magic?

At a basic level most networked games is mirror and smokes, you normally have huge amounts of data needed to be synced really fast between computers with different speeds. So unless you have a game where time is irrelevant, like a turn based game with timers, you need to up on some tricks.

So, the first issue when making a game work across the network is Latency. Latency, sometimes mentioned as Ping, is the time interval between the stimulation and response. In this case, this means the time it takes for a message to be sent from one computer and it being received in another.

It might also be referred to the time it takes for a message to be sent, plus the time it takes for another message to be sent back. Although this is often referred to as "round-trip delay time", RTD or RTT (round-trip time) to avoid confusion.

Some of you may think, why is Latency more important than Bandwidth? If you don't know yet, Network Bandwidth normally defined as the amount of data able to be sent across the network in a given period of time.

As said before networked games uses a lot of tricks to work, if you are too young you might not known that before we all had internet speed ranging around 56kbps (Around 7 kilobyte per second), while today it's common to have internet speed surpassing 1 megabyte per second (Around 142 times more information per second).

Games then had to deal with sending extremely small packets of data, not much information could be exchanged. Although you might see later that 7kilobytes is a lot of info, this was in excellent conditions, and you couldn't just hug all the resources for yourself.

The Tricks

In a nutshell: Sending the minimum amount of data necessary to interpret the current game state.

There are a variety of ways of doing this, from most simply not sending data that the client don't need to known about (Like not sending data of objects the client can't see nor interact, If it's irrelevant to known, why known it?), packing all data together (We will see in the next part about it), to making predictions about stuff (If someone has been walking forward last update, it is more

likely he will keep walking forward until we are certain he has stopped or changed directions). This can get complicated really fast, but you can take your time learning it.

Some common tricks may be found at this article: https://en.wikipedia.org/wiki/Lag#Solutions_and_lag_compensation

The Data

TinyBirdNet uses UDP (User Datagram Protocol) to communicate, UDP uses a little less data than TCP (Transmission Control Protocol) to send information, but it has less safe handling mechanisms, don't worry tho as the LiteNetLib handles that most graciously!

If you were to send an empty message in UDP, meaning no data is actually sent, the packet would contain at minimum 28bytes(IPv4) or 48bytes(IPv6). This is because the packet needs to contain data about the destination and content, we call those the Header of the packet.

Remember that Bandwidth is measured by amount of data per second, but one second would mean you have a 1000ms delay, everything happening one second late for clients. Data is constantly sent across the network instead of being sent every second, this is made by fragmenting packets and this fragmentation may have a huge impact on lower Bandwidth connections.

You can read more about how Bandwidth and Packet size may affect Latency here: https://books.google.com.br/books? id=MLxfy6W8bxgC&lpg=PA193&ots=9FaVhqdM2m&dq=56kbps%20packet%20size&pg=PA194#v=onepage&q&f=false

Client/Server Architecture

TinyBirdNet operates on the basis that there is one Server that every Client connects to. On the included demo any Host will also be a Listen Server, meaning they are a Client and a Server at the same time. (A Client connected to their own computer, which is also a Host)

In most cases one would adopt the Server Authority architecture, meaning the Server is the correct version of the game and any important information is validated by it, while Clients try to keep a simulation as close as possible to the Server. This Server Authority is not provided by TinyBirdNet, it's upon you to implement it or not on your game.

Welcome to the first part of the tutorial series where you will learn how to make a very basic game using TinyBirdNet. For that I will be using the Demo game included, and will teach you what every part does and why it is necessary.

What we gonna need?

We will be using our own derived classes of:

- [[TinyNetGameManager|TinyNetGameManager]]
- [[TinyNetPlayerController|TinyNetPlayerController]]
- [[TinyNetBehaviour|TinyNetBehaviour]]

In addition to a GameManager and SpawnPointManager, not related to networking tho.

You might be wondering if that is enough, but worry not as TinyBirdNet will take care of most things for you. From syncing scene changing, serialization/deserialization, authentication, you just worry about your game logic!

Making our character

I would like to start with the cubes the players will move around, since the ExamplePawn is the script with less direct references to others.

```
public class ExamplePawn : TinyNetBehaviour {
```

A TinyNetBehaviour is a MonoBehaviour who implements the interface ITinyNetObject, in addition, TinyBirdNet handles it's spawning, serialization, rpc, and mostly anything you need to create a new instance of it in a multiplayer game and have it automatically synced.

Most of the important network variables are declared here:

```
string _playerName;
[TinyNetSyncVar]
public string PlayerName { get { return _playerName; } set { _playerName = value; } }

Vector3 _networkPosition;

[TinyNetSyncVar]
float xPos { get { return _networkPosition.x; } set { _networkPosition.x = value; } }

[TinyNetSyncVar]
float zPos { get { return _networkPosition.z; } set { _networkPosition.z = value; } }

[TinyNetSyncVar]
byte netDir { get; set; }
```

Why so many properties you ask? Well, the [TinyNetSyncVar] attribute only works with properties.

Why again? Mostly a whim I guess, but manly because that way you are assured to receive an event every time it is changed, and you get both the old and the new value assigned to it.

The [TinyNetSyncVar] attribute means that property will be automatically sent from the server to all clients whenever it is detected to be dirty (has changed) between network frames.

This mean that by just setting it, all clients will automatically sync their values.

PlayerName is used to display that text on top of the players, each client is responsible for designating their own name, but since replication can't be done client to client we first send it to the server and it is synced to all clients.

'xPos' and 'zPos' is just the current player's position, we route the property to a vector3 just to get some sugar from Unity.

Finally, netDir is a numerical representation of the player's facing direction. 1 is top and 4 is left, goes clockwise. (0 means there was an error)

Next about the methods, and again, I will be skipping ones not directly related to network.

```
private void Start() {
    xPos = transform.position.x;
    zPos = transform.position.z;
}
```

This one just makes sure that as soon as this object is fully created, it's network position will be set.

```
public override void OnStartServer() {
   base.OnStartServer();

  timeForNextShoot = Time.time + 0.3f;
}
```

OnStartServer() Is called on a Server when an object is network created, it is triggered after OnNetworkCreate and before OnStartClient() if the Server is also a Client.

```
public override void OnStartAuthority() {
    base.OnStartAuthority();

    controller = TinyNetClient.instance.connToHost.GetPlayerController<ExamplePlayerController>
(ownerPlayerControllerId);
    controller.GetPawn(this);

    cameraTransform = GameObject.FindGameObjectWithTag("MainCamera").transform;
}
```

This one is called when someone acquires Authority of this object. Authority is a fairly abstract concept tho, it don't really do anything besides being a marker for special privileges you might want to give to something.

In this case, it represents the client that controls that player.

Here we get our Player Controller, which I will explain later, by means of using our connection to the host and our ownerPlayerControllerId field that is given to us by the server. Since we are using Authority here to mean the player you control, we also take the opportunity to grab the Main Camera and makes it follow us.

```
public override void OnStartClient() {
    base.OnStartClient();

playerText.text = PlayerName;
}
```

OnStartClient(), as you may have correctly guessed, is called on all Clients that receive this Object from the network. It is also called after all variables have been synced.

Here we are only displaying the player's name on our text mesh.

```
public override void OnNetworkDestroy() {
    base.OnNetworkDestroy();

if (hasAuthority) {
    controller.LosePawn();
    controller = null;
    }
}
```

Called when an object is removed from the network simulation, at this one we just make the Player Controller known the player has died.

```
private void FixedUpdate() {
    if (!hasAuthority) {
        Vector3 pos = transform.position;
        Vector3 result = Vector3.MoveTowards(pos, _networkPosition, movementSpeed * Time.fixedDeltaTime);

    float dist = (result - _networkPosition).sqrMagnitude;
    if (dist <= 0.1f || dist >= movespeedPow) {
        result = _networkPosition;
    }

    FaceDir(netDir);

    transform.position = result;
} else {
    cameraTransform.position = new Vector3(transform.position.x, 10.0f, transform.position.z - 6f);
}
```

This one have two modes, if we are not the owner of that player we take the information we received from the server and try to update our simulation of it.

Frankly this was really done poorly here as this was just the minimum example needed to work. You can see how the bullets don't really align when someone else is moving and shooting.

I recommend reading about interpolation or any other lag compensation methods.

If we are the owner tho, we just update the camera position, as everything else is controlled by the Player Controller.

```
public void Killed() {
    TinyNetServer.instance.DestroyObject(gameObject);
}
```

Called when our player is hit by an enemy bullet, it asks the Server to remove it from the network.

There are no safety checks here to see we are indeed the erver, but in our case we want errors to be thrown cos this is not to be called by any Client!

Next I want to explain the RPC (Remote Procedure Call) for the shooting mechanics. Firstly, RPC are methods which are called but not resolved on the same machine. This mean we can call methods at the Client which are executed on the Server and other combinations.

Sadly, this part ended up being a little bothersome since I tried to stay away from Weaving the Unet used, and reflection could only get me so far on it.

First we will declare our shoot method:

```
[TinyNetRPC(RPCTarget.Server, RPCCallers.ClientOwner)]
   void ServerShoot(float xPos, float zPos, byte dir) {
       if (!isServer) {
            rpcRecycleWriter.Reset();
            rpcRecycleWriter.Put(xPos);
            rpcRecycleWriter.Put(zPos);
            rpcRecycleWriter.Put(dir);
            SendRPC(rpcRecycleWriter, "ServerShoot");
            return:
       }
       ExampleBullet bullet = Instantiate(bulletPrefab, bulletSpawnPosition.position,
transform.rotation).GetComponent<ExampleBullet>();
       bullet.ownerNetworkId = NetIdentity.NetworkID;
       bullet.direction = dir;
       switch (dir) {
            case 1:
                bullet.transform.rotation = Quaternion.Euler(new Vector3(0f, 0f, 0f));
                break;
            //Right
            case 2:
                bullet.transform.rotation = Quaternion.Euler(new Vector3(0f, 90f, 0f));
                break;
            //Down
            case 3:
               bullet.transform.rotation = Quaternion.Euler(new Vector3(0f, 180f, 0f));
                break:
            //Left
            case 4:
                bullet.transform.rotation = Quaternion.Euler(new Vector3(0f, 270f, 0f));
                break;
       }
       TinyNetServer.instance.SpawnObject(bullet.gameObject);
   }
```

The [TinyNetRPC(RPCTarget.Server, RPCCallers.ClientOwner)] declares that this method can only be called by the Client that owns (has Authority on) this object, and it will be executed at the Server.

Then we do a manual check to see if we are not the Server already, since in this game the Server is always a Client too, it could mean the owner of this object is already the target Server.

If we are not the Server, gather the parameters of this method at a reusable NetDataWritter that all TinyNetBehaviour have access to, and send an RPC with it, ending the method.

If we are the Server, by means of receiving the RPC or just initially being the owner, we proceed with the normal shooting. Create a new bullet, spawn it, done.

Now, going back to one network method we skipped...

```
public override void OnNetworkCreate() {
    base.OnNetworkCreate();

    RegisterRPCDelegate(ServerShootReceive, "ServerShoot");
}
```

At this one, called when the object is added to the network, but before it have received any data, we register the ServerShootReceive method with the string id "ServerShoot".

This mean that if we ever receive an RPC with the "ServerShoot" id, we will call the method registered for it.

And finally:

```
void ServerShootReceive(NetDataReader reader) {
    ServerShoot(reader.GetFloat(), reader.GetFloat());
}
```

The method registered, basically receives the data from the RPC and routes it to the original ServerShoot method.

A little cumbersome, if there is the opportunity to improve upon it I will do so, but for now it shall suffice.

At the next part we will take a look at the ExamplePlayerController script!

Namespace Assets.TinyBirdNet.Utils

Classes

 ${\bf PropertyInfoExtensions}$

Class PropertyInfoExtensions

Inheritance

System.Object

PropertyInfoExtensions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: Assets.TinyBirdNet.Utils

Assembly: Assembly-CSharp.dll

Syntax

public static class PropertyInfoExtensions

Methods

GetValueGetter<T>(PropertyInfo)

Declaration

public static Func<T, object> GetValueGetter<T>(this PropertyInfo propertyInfo)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------------------------|--------------|-------------|
| System.Reflection.PropertyInfo | propertyInfo | |

Returns

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| System.Func <t, system.object=""></t,> | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

GetValueSetter<T>(PropertyInfo)

Declaration

public static Action<T, object> GetValueSetter<T>(this PropertyInfo propertyInfo)

| ТУРЕ | NAME | DESCRIPTION |
|--------------------------------|--------------|-------------|
| System.Reflection.PropertyInfo | propertyInfo | |

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| System.Action <t, system.object=""></t,> | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Namespace FastMember

Classes

Member

Represents an abstracted view of an individual member defined for a type

MemberSet

Represents an abstracted view of the members defined for a type

ObjectAccessor

Represents an individual object, allowing access to members by-name

ObjectReader

Provides a means of reading a sequence of objects as a data-reader, for example for use with SqlBulkCopy or other data-base oriented code

TypeAccessor

Provides by-name member-access to objects of a given type

Type Accessor. Runtime Type Accessor

A TypeAccessor based on a Type implementation, with available member metadata

Class Member

Represents an abstracted view of an individual member defined for a type

Inheritance

System.Object

Member

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember
Assembly: FastMember.dll

Syntax

public sealed class Member

Properties

Name

The name of this member

Declaration

```
public string Name { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Туре

The type of value stored in this member

Declaration

```
public Type Type { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Type | |

Methods

IsDefined(Type)

Is the attribute specified defined on this type

Declaration

public bool IsDefined(Type attributeType)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|---------------|-------------|
| System.Type | attributeType | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Class MemberSet

Represents an abstracted view of the members defined for a type

Inheritance

System.Object

MemberSet

Implements

System.Collections.Generic.IList<Member>

System.Collections.Generic.ICollection < Member >

System.Collections.Generic.IEnumerable<Member>

System.Collections.IEnumerable

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember Assembly: FastMember.dll

Syntax

public sealed class MemberSet : IList<Member>, ICollection<Member>, IEnumerable

Properties

Count

The number of members defined for this type

Declaration

```
public int Count { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Item[Int32]

Get a member by index

Declaration

```
public Member this[int index] { get; }
```

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int32 | index | |

| ТУРЕ | DESCRIPTION |
|--------|-------------|
| Member | |

Methods

GetEnumerator()

Return a sequence of all defined members

Declaration

public IEnumerator<Member> GetEnumerator()

Returns

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| System.Collections.Generic.IEnumerator <member></member> | |

Explicit Interface Implementations

ICollection < Member > . Add (Member)

Declaration

void ICollection<Member>.Add(Member item)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------|------|-------------|
| Member | item | |

ICollection < Member > . Clear()

Declaration

void ICollection<Member>.Clear()

ICollection < Member > . Contains (Member)

Declaration

bool ICollection<Member>.Contains(Member item)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------|------|-------------|
| Member | item | |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

ICollection < Member > . CopyTo(Member[], Int32)

Declaration

void ICollection<Member>.CopyTo(Member[] array, int arrayIndex)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------------|-------------|
| Member[] | array | |
| System.Int32 | arrayIndex | |

ICollection < Member > . Is Read Only

Declaration

bool ICollection<Member>.IsReadOnly { get; }

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

ICollection < Member > . Remove (Member)

Declaration

bool ICollection<Member>.Remove(Member item)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------|------|-------------|
| Member | item | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

IList<Member>.IndexOf(Member)

Declaration

int IList<Member>.IndexOf(Member member)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------|--------|-------------|
| Member | member | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

IList<Member>.Insert(Int32, Member)

Declaration

void IList<Member>.Insert(int index, Member item)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int32 | index | |
| Member | item | |

IList<Member>.Item[Int32]

Declaration

Member IList<Member>.this[int index] { get; set; }

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int32 | index | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------|-------------|
| Member | |

IList<Member>.RemoveAt(Int32)

Declaration

void IList<Member>.RemoveAt(int index)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int32 | index | |

IEnumerable.GetEnumerator()

Declaration

IEnumerator IEnumerable.GetEnumerator()

Returns

| т | /PE | DESCRIPTION |
|----|-------------------------------|-------------|
| Sy | rstem.Collections.IEnumerator | |

Implements

System.Collections.Generic.IList<T>
System.Collections.Generic.ICollection<T>
System.Collections.Generic.IEnumerable<T>
System.Collections.IEnumerable

Class ObjectAccessor

Represents an individual object, allowing access to members by-name

Inheritance

System.Object

ObjectAccessor

Inherited Members

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember
Assembly: FastMember.dll

Syntax

public abstract class ObjectAccessor

Properties

Item[String]

Get or Set the value of a named member for the underlying object

Declaration

public abstract object this[string name] { get; set; }

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | name | |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Target

The object represented by this instance

Declaration

public abstract object Target { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Methods

Create(Object)

Wraps an individual object, allowing by-name access to that instance

Declaration

public static ObjectAccessor Create(object target)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Object | target | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| ObjectAccessor | |

Create(Object, Boolean)

Wraps an individual object, allowing by-name access to that instance

Declaration

public static ObjectAccessor Create(object target, bool allowNonPublicAccessors)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------------------|-------------|
| System.Object | target | |
| System.Boolean | allowNonPublicAccessors | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| ObjectAccessor | |

Equals(Object)

Use the target types definition of equality

Declaration

public override bool Equals(object obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

| System.Object.Equals(System.Object) |
|-------------------------------------|
| GetHashCode() |

Obtain the hash of the target object

Declaration

public override int GetHashCode()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System.Object.GetHashCode()

ToString()

Use the target's definition of a string representation

Declaration

public override string ToString()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System.Object.ToString()

Class ObjectReader

Provides a means of reading a sequence of objects as a data-reader, for example for use with SqlBulkCopy or other data-base oriented code

Inheritance

System.Object

System.MarshalByRefObject

System.Data.Common.DbDataReader

ObjectReader

Implements

System.Collections.IEnumerable

System.Data.IDataReader

System.IDisposable

System.Data.IDataRecord

Inherited Members

System.Data.Common.DbDataReader.System.Data.IDataRecord.GetData(System.Int32)

System. Data. Common. DbDataReader. Visible Field Count

System.MarshalByRefObject.CreateObjRef(System.Type)

System.MarshalByRefObject.GetLifetimeService()

System. Marshal By Ref Object. Initialize Lifetime Service ()

System. Marshal By Ref Object. Memberwise Clone (System. Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember
Assembly: FastMember.dll

Syntax

public class ObjectReader: DbDataReader, IEnumerable, IDataReader, IDisposable, IDataRecord

Constructors

ObjectReader(Type, IEnumerable, String[])

Creates a new ObjectReader instance for reading the supplied data

Declaration

public ObjectReader(Type type, IEnumerable source, params string[] members)

| ТУРЕ | NAME | DESCRIPTION |
|--------------------------------|--------|---|
| System.Type | type | The expected Type of the information to be read |
| System.Collections.IEnumerable | source | The sequence of objects to represent |

| TYPE | NAME | DESCRIPTION |
|-----------------|---------|--|
| | | |
| | | |
| System.String[] | members | The members that should be exposed to the reader |

Properties

Depth

Declaration

```
public override int Depth { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. Depth

FieldCount

Declaration

```
public override int FieldCount { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. Field Count

HasRows

Declaration

```
public override bool HasRows { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System.Data.Common.DbDataReader.HasRows

IsClosed

Declaration

```
public override bool IsClosed { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System.Data.Common.DbDataReader.IsClosed

Item[Int32]

Gets the value of the current object in the member specified

Declaration

```
public override object this[int i] { get; }
```

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Overrides

System. Data. Common. DbDataReader. Item [System. Int 32]

Item[String]

Declaration

```
public override object this[string name] { get; }
```

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | name | |

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Overrides

System. Data. Common. DbDataReader. Item [System. String]

Records Affected

Declaration

| <pre>public override int RecordsAffected { get; }</pre> | |
|---|--|
|---|--|

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. Records Affected

Methods

Close()

Declaration

public override void Close()

Overrides

System. Data. Common. DbDataReader. Close ()

Create<T>(IEnumerable<T>, String[])

Creates a new ObjectReader instance for reading the supplied data

Declaration

public static ObjectReader Create<T>(IEnumerable<T> source, params string[] members)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--|---------|--|
| System.Collections.Generic.IEnumerable <t></t> | source | The sequence of objects to represent |
| System.String[] | members | The members that should be exposed to the reader |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| ObjectReader | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Dispose(Boolean)

Declaration

protected override void Dispose(bool disposing)

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-----------|-------------|
| System.Boolean | disposing | |

Overrides

System. Data. Common. DbDataReader. Dispose (System. Boolean)

GetBoolean(Int32)

Declaration

public override bool GetBoolean(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System. Data. Common. DbDataReader. GetBoolean (System. Int 32)

GetByte(Int32)

Declaration

public override byte GetByte(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Byte | |

Overrides

System. Data. Common. DbDataReader. GetByte (System. Int 32)

GetBytes(Int32, Int64, Byte[], Int32, Int32)

Declaration

public override long GetBytes(int i, long fieldOffset, byte[] buffer, int bufferoffset, int length)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------------|-------------|
| System.Int32 | i | |
| System.Int64 | field Offset | |
| System.Byte[] | buffer | |

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------------|-------------|
| System.Int32 | bufferoffset | |
| System.Int32 | length | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

Overrides

System. Data. Common. DbDataReader. GetBytes (System. Int 32, System. Int 64, System. Byte [], System. Int 32, System. Int 3

GetChar(Int32)

Declaration

public override char GetChar(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Char | |

Overrides

System. Data. Common. DbDataReader. GetChar (System. Int 32)

GetChars(Int32, Int64, Char[], Int32, Int32)

Declaration

public override long GetChars(int i, long fieldoffset, char[] buffer, int bufferoffset, int length)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------------|-------------|
| System.Int32 | i | |
| System.Int64 | fieldoffset | |
| System.Char[] | buffer | |
| System.Int32 | bufferoffset | |
| System.Int32 | length | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

Overrides

System. Data. Common. DbDataReader. GetChars (System. Int 32, System. Int 64, System. Char [], System. Int 32, System. Int 3

GetDataTypeName(Int32)

Declaration

public override string GetDataTypeName(int i)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System. Data. Common. DbDataReader. GetDataTypeName (System. Int 32)

GetDateTime(Int32)

Declaration

public override DateTime GetDateTime(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| System.DateTime | |

Overrides

System. Data. Common. DbDataReader. GetDateTime (System. Int 32)

GetDbDataReader(Int32)

Declaration

protected override DbDataReader GetDbDataReader(int i)

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|------------------------------------|-------------|
| System. Data. Common. DbDataReader | |

Overrides

System. Data. Common. DbDataReader. GetDbDataReader (System. Int 32)

GetDecimal(Int32)

Declaration

public override decimal GetDecimal(int i)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Decimal | |

Overrides

System. Data. Common. DbDataReader. GetDecimal (System. Int 32)

GetDouble(Int32)

Declaration

public override double GetDouble(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Double | |

Overrides

System. Data. Common. DbDataReader. GetDouble (System. Int 32)

GetEnumerator()

Declaration

public override IEnumerator GetEnumerator()

Returns

| ТУРЕ | DESCRIPTION |
|--------------------------------|-------------|
| System.Collections.IEnumerator | |

Overrides

System. Data. Common. DbDataReader. GetEnumerator ()

GetFieldType(Int32)

Declaration

public override Type GetFieldType(int i)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Type | |

Overrides

System. Data. Common. DbDataReader. GetFieldType (System. Int 32)

GetFloat(Int32)

Declaration

public override float GetFloat(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

Overrides

System. Data. Common. DbDataReader. GetFloat (System. Int 32)

GetGuid(Int32)

Declaration

public override Guid GetGuid(int i)

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Guid | |

Overrides

System. Data. Common. DbDataReader. GetGuid (System. Int 32)

GetInt16(Int32)

Declaration

public override short GetInt16(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Overrides

System. Data. Common. DbDataReader. GetInt 16 (System. Int 32)

GetInt32(Int32)

Declaration

public override int GetInt32(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. GetInt 32 (System. Int 32)

GetInt64(Int32)

Declaration

public override long GetInt64(int i)

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

Overrides

System. Data. Common. DbDataReader. GetInt 64 (System. Int 32)

GetName(Int32)

Declaration

public override string GetName(int i)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System. Data. Common. DbDataReader. Get Name (System. Int 32)

GetOrdinal(String)

Declaration

public override int GetOrdinal(string name)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | name | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. GetOrdinal (System. String)

GetSchemaTable()

Declaration

public override DataTable GetSchemaTable()

Returns

| ТУРЕ | DESCRIPTION |
|-----------------------|-------------|
| System.Data.DataTable | |

Overrides

System. Data. Common. DbDataReader. GetSchema Table ()

GetString(Int32)

Declaration

public override string GetString(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System. Data. Common. DbDataReader. GetString (System. Int 32)

GetValue(Int32)

Declaration

public override object GetValue(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Overrides

System. Data. Common. DbDataReader. Get Value (System. Int 32)

GetValues(Object[])

Declaration

public override int GetValues(object[] values)

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|--------|-------------|
| System.Object[] | values | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System. Data. Common. DbDataReader. GetValues (System. Object[])

IsDBNull(Int32)

Declaration

public override bool IsDBNull(int i)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | i | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System. Data. Common. DbDataReader. Is DBNull (System. Int 32)

NextResult()

Declaration

public override bool NextResult()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System. Data. Common. DbDataReader. NextResult()

Read()

Declaration

public override bool Read()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System. Data. Common. DbDataReader. Read ()

Implements

System.Collections.IEnumerable System.Data.IDataReader System.IDisposable System.Data.IDataRecord

Class TypeAccessor

Provides by-name member-access to objects of a given type

Inheritance

System.Object

TypeAccessor

TypeAccessor.RuntimeTypeAccessor

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember
Assembly: FastMember.dll

Syntax

public abstract class TypeAccessor

Properties

CreateNewSupported

Does this type support new instances via a parameterless constructor?

Declaration

public virtual bool CreateNewSupported { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

GetMembersSupported

Can this type be queried for member availability?

Declaration

public virtual bool GetMembersSupported { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Item[Object, String]

Get or set the value of a named member on the target instance

Declaration

public abstract object this[object target, string name] { get; set; }

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Object | target | |
| System.String | name | |

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Methods

Create(Type)

Provides a type-specific accessor, allowing by-name access for all objects of that type

Declaration

public static TypeAccessor Create(Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| TypeAccessor | |

Remarks

The accessor is cached internally; a pre-existing accessor may be returned

Create(Type, Boolean)

Provides a type-specific accessor, allowing by-name access for all objects of that type

Declaration

public static TypeAccessor Create(Type type, bool allowNonPublicAccessors)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------------------|-------------|
| System.Type | type | |
| System.Boolean | allowNonPublicAccessors | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| TypeAccessor | |

Remarks

The accessor is cached internally; a pre-existing accessor may be returned

CreateNew()

Create a new instance of this type

Declaration

public virtual object CreateNew()

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

GetMembers()

Query the members available for this type

Declaration

public virtual MemberSet GetMembers()

Returns

| ТУРЕ | DESCRIPTION |
|-----------|-------------|
| MemberSet | |

Class TypeAccessor.RuntimeTypeAccessor

A TypeAccessor based on a Type implementation, with available member metadata

Inheritance

System.Object

TypeAccessor

TypeAccessor.RuntimeTypeAccessor

Inherited Members

TypeAccessor.CreateNewSupported

TypeAccessor.CreateNew()

TypeAccessor.Create(Type)

TypeAccessor.Create(Type, Boolean)

TypeAccessor.Item[Object, String]

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FastMember
Assembly: FastMember.dll

Syntax

protected abstract class RuntimeTypeAccessor : TypeAccessor

Properties

Get Members Supported

Can this type be queried for member availability?

Declaration

public override bool GetMembersSupported { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

TypeAccessor.GetMembersSupported

Type

Returns the Type represented by this accessor

Declaration

```
protected abstract Type Type { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Type | |

Methods

GetMembers()

Query the members available for this type

Declaration

public override MemberSet GetMembers()

Returns

| ТУРЕ | DESCRIPTION |
|-----------|-------------|
| MemberSet | |

Overrides

TypeAccessor.GetMembers()

Namespace LiteNetLib

Classes

ConnectionRequest

EventBasedNatPunchListener

EventBasedNetListener

Invalid Packet Exception

NatPunchModule

Module for UDP NAT Hole punching operations. Can be accessed from NetManager

NetConstants

Network constants. Can be tuned from sources for your purposes.

NetDebug

Static class for defining your own LiteNetLib logger instead of Console.WriteLine or Debug.Log if compiled with UNITY flag

NetEndPoint

Network End Point. Contains ip address and port

NetManager

Main class for all network operations. Can be used as client and/or server.

NetPeer

Network peer. Main purpose is sending messages to specific peer.

NetStatistics

NetUtils

Some specific network utilities

TooBigPacketException

Structs

DisconnectInfo

Additional information about disconnection

Interfaces

INatPunchListener

INetEventListener

INetLogger

Interface to implement for your own logger

Enums

Connection Request Result

ConnectionState

Peer connection state

DeliveryMethod

Sending method type

DisconnectReason

Disconnect reason that you receive in OnPeerDisconnected event

LocalAddrType

Address type that you want to receive from NetUtils.GetLocallp method

UnconnectedMessageType

Type of message that you receive in OnNetworkReceiveUnconnected event

Delegates

Event Based Nat Punch Listener. On Nat Introduction Request

EventBasedNatPunchListener.OnNatIntroductionSuccess

EventBasedNetListener. On Connection Request

Event Based Net Listener. On Network Error

Event Based Net Listener. On Network Latency Update

EventBasedNetListener.OnNetworkReceive

EventBasedNetListener.OnNetworkReceiveUnconnected

EventBasedNetListener.OnPeerConnected

EventBasedNetListener.OnPeerDisconnected

Class ConnectionRequest

Inheritance

System.Object

ConnectionRequest

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public class ConnectionRequest

Fields

ConnectionId

Declaration

public readonly long ConnectionId

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

Data

Declaration

public readonly NetDataReader Data

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataReader | |

RemoteEndPoint

Declaration

public readonly NetEndPoint RemoteEndPoint

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| NetEndPoint | |

Properties

Result

Declaration

public ConnectionRequestResult Result { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------------------|-------------|
| ConnectionRequestResult | |

Methods

Accept()

Accept connection and get new NetPeer as result

Declaration

public NetPeer Accept()

Returns

| ТҮРЕ | DESCRIPTION |
|---------|-------------------|
| NetPeer | Connected NetPeer |

AcceptIfKey(String)

Declaration

public bool AcceptIfKey(string key)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | key | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Reject()

Declaration

public void Reject()

Enum ConnectionRequestResult

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public enum ConnectionRequestResult

| NAME | DESCRIPTION |
|--------|-------------|
| Accept | |
| None | |
| Reject | |

Enum ConnectionState

Peer connection state

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

| [Flags] | | |
|---------|------|-------------------------|
| public | enum | ${\tt ConnectionState}$ |

| NAME | DESCRIPTION |
|-------------------|-------------|
| Any | |
| Connected | |
| Disconnected | |
| InProgress | |
| ShutdownRequested | |

Enum DeliveryMethod

Sending method type

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public enum DeliveryMethod

| NAME | DESCRIPTION |
|-------------------|--|
| ReliableOrdered | Reliable and ordered. All packets will be sent and received in order |
| ReliableUnordered | Reliable. All packets will be sent and received, but without order |
| Sequenced | Unreliable. Packets can be dropped, but never duplicated and arrive in order |
| Unreliable | Unreliable. Packets can be dropped, duplicated or arrive without order |

Struct DisconnectInfo

Additional information about disconnection

Inherited Members

System.ValueType.Equals(System.Object)

System.ValueType.GetHashCode()

System.ValueType.ToString()

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public struct DisconnectInfo

Fields

AdditionalData

Additional data that can be accessed (only if reason is RemoteConnectionClose)

Declaration

public NetDataReader AdditionalData

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataReader | |

Reason

Additional info why peer disconnected

Declaration

public DisconnectReason Reason

Field Value

| ТҮРЕ | DESCRIPTION |
|------------------|-------------|
| DisconnectReason | |

SocketErrorCode

Error code (if reason is SocketSendError or SocketReceiveError)

Declaration

public int SocketErrorCode

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Enum DisconnectReason

Disconnect reason that you receive in OnPeerDisconnected event

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public enum DisconnectReason

| NAME | DESCRIPTION |
|-----------------------|-------------|
| ConnectionFailed | |
| DisconnectPeerCalled | |
| RemoteConnectionClose | |
| SocketReceiveError | |
| SocketSendError | |
| Timeout | |

Class EventBasedNatPunchListener

Inheritance

System.Object

EventBasedNatPunchListener

Implements

INatPunchListener

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public class EventBasedNatPunchListener : INatPunchListener

Events

NatIntroductionRequest

Declaration

public event EventBasedNatPunchListener.OnNatIntroductionRequest NatIntroductionRequest

Event Type

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| EventBasedNatPunchListener.OnNatIntroductionRequest | |

NatIntroductionSuccess

Declaration

public event EventBasedNatPunchListener.OnNatIntroductionSuccess NatIntroductionSuccess

Event Type

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| EventBasedNatPunchListener.OnNatIntroductionSuccess | |

Explicit Interface Implementations

INatPunchListener.OnNatIntroductionRequest(NetEndPoint, NetEndPoint, String)

Declaration

void INatPunchListener.OnNatIntroductionRequest(NetEndPoint localEndPoint, NetEndPoint remoteEndPoint, string
token)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | localEndPoint | |
| NetEndPoint | remoteEndPoint | |
| System.String | token | |

IN at Punch Listener. On Nat Introduction Success (Net End Point, String)

Declaration

void INatPunchListener.OnNatIntroductionSuccess(NetEndPoint targetEndPoint, string token)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | targetEndPoint | |
| System.String | token | |

Implements

INatPunchListener

Delegate EventBasedNatPunchListener.OnNatIntroductionRequest

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNatIntroductionRequest(NetEndPoint localEndPoint, NetEndPoint remoteEndPoint, string token);

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | localEndPoint | |
| NetEndPoint | remoteEndPoint | |
| System.String | token | |

Delegate EventBasedNatPunchListener.OnNatIntroductionSuccess

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNatIntroductionSuccess(NetEndPoint targetEndPoint, string token);

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | targetEndPoint | |
| System.String | token | |

Class EventBasedNetListener

Inheritance

System.Object

EventBasedNetListener

Implements

INetEventListener

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System. Object. Reference Equals (System. Object, System. Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public class EventBasedNetListener : INetEventListener

Events

ConnectionRequestEvent

Declaration

public event EventBasedNetListener.OnConnectionRequest ConnectionRequestEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| EventBasedNetListener.OnConnectionRequest | |

NetworkErrorEvent

Declaration

public event EventBasedNetListener.OnNetworkError NetworkErrorEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|--------------------------------------|-------------|
| EventBasedNetListener.OnNetworkError | |

Network Latency Update Event

Declaration

public event EventBasedNetListener.OnNetworkLatencyUpdate NetworkLatencyUpdateEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| EventBasedNetListener.OnNetworkLatencyUpdate | |

NetworkReceiveEvent

Declaration

public event EventBasedNetListener.OnNetworkReceive NetworkReceiveEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| EventBasedNetListener.OnNetworkReceive | |

Network Receive Unconnected Event

Declaration

public event EventBasedNetListener.OnNetworkReceiveUnconnected NetworkReceiveUnconnectedEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| EventBasedNetListener.OnNetworkReceiveUnconnected | |

PeerConnectedEvent

Declaration

public event EventBasedNetListener.OnPeerConnected PeerConnectedEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|---------------------------------------|-------------|
| EventBasedNetListener.OnPeerConnected | |

PeerDisconnectedEvent

Declaration

public event EventBasedNetListener.OnPeerDisconnected PeerDisconnectedEvent

Event Type

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| EventBasedNetListener.OnPeerDisconnected | |

Explicit Interface Implementations

IN et Event Listener. On Connection Request (Connection Request)

Declaration

void INetEventListener.OnConnectionRequest(ConnectionRequest request)

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|---------|-------------|
| ConnectionRequest | request | |

INetEventListener.OnNetworkError(NetEndPoint, Int32)

Declaration

void INetEventListener.OnNetworkError(NetEndPoint endPoint, int socketErrorCode)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-------------|
| NetEndPoint | endPoint | |
| System.Int32 | socketErrorCode | |

INetEventListener.OnNetworkLatencyUpdate(NetPeer, Int32)

Declaration

void INetEventListener.OnNetworkLatencyUpdate(NetPeer peer, int latency)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------|
| NetPeer | peer | |
| System.Int32 | latency | |

INetEventListener.OnNetworkReceive(NetPeer, NetDataReader, DeliveryMethod)

Declaration

void INetEventListener.OnNetworkReceive(NetPeer peer, NetDataReader reader, DeliveryMethod deliveryMethod)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|----------------|-------------|
| NetPeer | peer | |
| NetDataReader | reader | |
| DeliveryMethod | deliveryMethod | |

INetEventListener.OnNetworkReceiveUnconnected(NetEndPoint, NetDataReader, UnconnectedMessageType)

Declaration

void INetEventListener.OnNetworkReceiveUnconnected(NetEndPoint remoteEndPoint, NetDataReader reader,
UnconnectedMessageType messageType)

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|----------------|-------------|
| NetEndPoint | remoteEndPoint | |
| NetDataReader | reader | |
| UnconnectedMessageType | messageType | |

INetEventListener.OnPeerConnected(NetPeer)

Declaration

void INetEventListener.OnPeerConnected(NetPeer peer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | |

$INetEventListener. On PeerDisconnected (NetPeer,\ DisconnectInfo)$

Declaration

void INetEventListener.OnPeerDisconnected(NetPeer peer, DisconnectInfo disconnectInfo)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|----------------|-------------|
| NetPeer | peer | |
| DisconnectInfo | disconnectInfo | |

Implements

INetEventListener

$Delegate\ Event Based Net Listener. On Connection Request$

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnConnectionRequest(ConnectionRequest request);

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|---------|-------------|
| ConnectionRequest | request | |

$Delegate\ Event Based Net Listener. On Network Error$

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNetworkError(NetEndPoint endPoint, int socketErrorCode);

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-------------|
| NetEndPoint | endPoint | |
| System.Int32 | socketErrorCode | |

$Delegate\ Event Based Net Listener. On Network Latency Update$

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNetworkLatencyUpdate(NetPeer peer, int latency);

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------|
| NetPeer | peer | |
| System.Int32 | latency | |

Delegate EventBasedNetListener.OnNetworkReceive

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNetworkReceive(NetPeer peer, NetDataReader reader, DeliveryMethod deliveryMethod);

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|----------------|-------------|
| NetPeer | peer | |
| NetDataReader | reader | |
| DeliveryMethod | deliveryMethod | |

Delegate EventBasedNetListener.OnNetworkReceiveUnconnected

Namespace: Lite NetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnNetworkReceiveUnconnected(NetEndPoint remoteEndPoint, NetDataReader reader,
UnconnectedMessageType messageType);

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|----------------|-------------|
| NetEndPoint | remoteEndPoint | |
| NetDataReader | reader | |
| UnconnectedMessageType | messageType | |

Delegate EventBasedNetListener.OnPeerConnected

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnPeerConnected(NetPeer peer);

| ТҮРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | |

Delegate EventBasedNetListener.OnPeerDisconnected

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public delegate void OnPeerDisconnected(NetPeer peer, DisconnectInfo disconnectInfo);

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|----------------|-------------|
| NetPeer | peer | |
| DisconnectInfo | disconnectInfo | |

Interface INatPunchListener

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public interface INatPunchListener

Methods

OnNatIntroductionRequest(NetEndPoint, NetEndPoint, String)

Declaration

void OnNatIntroductionRequest(NetEndPoint localEndPoint, NetEndPoint remoteEndPoint, string token)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | localEndPoint | |
| NetEndPoint | remoteEndPoint | |
| System.String | token | |

OnNatIntroductionSuccess(NetEndPoint, String)

Declaration

void OnNatIntroductionSuccess(NetEndPoint targetEndPoint, string token)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | targetEndPoint | |
| System.String | token | |

Interface INetEventListener

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public interface INetEventListener

Methods

OnConnectionRequest(ConnectionRequest)

On peer connection requested

Declaration

void OnConnectionRequest(ConnectionRequest request)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|---------|--|
| ConnectionRequest | request | Request information (EndPoint, internal id, additional data) |

OnNetworkError(NetEndPoint, Int32)

Network error (on send or receive)

Declaration

void OnNetworkError(NetEndPoint endPoint, int socketErrorCode)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-----------------------------|
| NetEndPoint | endPoint | From endPoint (can be null) |
| System.Int32 | socketErrorCode | Socket error code |

OnNetworkLatencyUpdate(NetPeer, Int32)

Latency information updated

Declaration

void OnNetworkLatencyUpdate(NetPeer peer, int latency)

| ТҮРЕ | NAME | DESCRIPTION |
|---------|------|---------------------------|
| NetPeer | peer | Peer with updated latency |

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------------------------|
| System.Int32 | latency | latency value in milliseconds |

OnNetworkReceive(NetPeer, NetDataReader, DeliveryMethod)

Received some data

Declaration

void OnNetworkReceive(NetPeer peer, NetDataReader reader, DeliveryMethod deliveryMethod)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|----------------|---|
| NetPeer | peer | From peer |
| NetDataReader | reader | DataReader containing all received data |
| DeliveryMethod | deliveryMethod | Type of received packet |

OnNetworkReceiveUnconnected(NetEndPoint, NetDataReader, UnconnectedMessageType)

Received unconnected message

Declaration

void OnNetworkReceiveUnconnected(NetEndPoint remoteEndPoint, NetDataReader reader, UnconnectedMessageType
messageType)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|----------------|--|
| NetEndPoint | remoteEndPoint | From address (IP and Port) |
| NetDataReader | reader | Message data |
| UnconnectedMessageType | messageType | Message type (simple, discovery request or responce) |

OnPeerConnected(NetPeer)

New remote peer connected to host, or client connected to remote host

Declaration

void OnPeerConnected(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|-----------------------|
| NetPeer | peer | Connected peer object |

$On Peer Disconnected (Net Peer,\ Disconnect Info)$

Peer disconnected

Declaration

void OnPeerDisconnected(NetPeer peer, DisconnectInfo disconnectInfo)

| ТУРЕ | NAME | DESCRIPTION |
|----------------|----------------|--|
| NetPeer | peer | disconnected peer |
| DisconnectInfo | disconnectInfo | additional info about reason, errorCode or data received with disconnect message |

Interface INetLogger

Interface to implement for your own logger

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public interface INetLogger

Methods

WriteNet(ConsoleColor, String, Object[])

Declaration

void WriteNet(ConsoleColor color, string str, params object[] args)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------------|-------|-------------|
| System.ConsoleColor | color | |
| System.String | str | |
| System.Object[] | args | |

Class InvalidPacketException

Inheritance

System.Object

System.Exception

System.SystemException

System.ArgumentException

InvalidPacketException

TooBigPacketException

Implements

System.Runtime.Serialization.ISerializable

System.Runtime.InteropServices._Exception

Inherited Members

System. Argument Exception. Get Object Data (System. Runtime. Serialization. Serialization Info, and the support of the properties of th

System.Runtime.Serialization.StreamingContext)

System.ArgumentException.ParamName

System.ArgumentException.Message

System.Exception.GetBaseException()

System.Exception.ToString()

System.Exception.GetType()

System.Exception.InnerException

System.Exception.HelpLink

System.Exception.HResult

System.Exception.Source

System.Exception.StackTrace

System.Exception.TargetSite

System.Exception.Data

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public class InvalidPacketException : ArgumentException, ISerializable, _Exception

Constructors

InvalidPacketException()

Declaration

public InvalidPacketException()

InvalidPacketException(String)

Declaration

public InvalidPacketException(string message)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | message | |

InvalidPacketException(String, Exception)

Declaration

public InvalidPacketException(string message, Exception innerException)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------|----------------|-------------|
| System.String | message | |
| System.Exception | innerException | |

Implements

System.Runtime.Serialization.ISerializable System.Runtime.InteropServices._Exception

Enum LocalAddrType

Address type that you want to receive from NetUtils.GetLocallp method

Namespace: LiteNetLib
Assembly: Assembly-CSharp.dll

Syntax

| [Flags] | |
|------------|-----------------|
| public enu | n LocalAddrType |

Fields

| NAME | DESCRIPTION |
|------|-------------|
| All | |
| IPv4 | |
| IPv6 | |

Class NatPunchModule

Module for UDP NAT Hole punching operations. Can be accessed from NetManager

Inheritance

System.Object

NatPunchModule

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NatPunchModule

Fields

MaxTokenLength

Declaration

public const int MaxTokenLength = 256

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

Init(INatPunchListener)

Declaration

public void Init(INatPunchListener listener)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|----------|-------------|
| INatPunchListener | listener | |

NatIntroduce(NetEndPoint, NetEndPoint, NetEndPoint, NetEndPoint, String)

Declaration

public void NatIntroduce(NetEndPoint hostInternal, NetEndPoint hostExternal, NetEndPoint clientInternal,
NetEndPoint clientExternal, string additionalInfo)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetEndPoint | hostInternal | |
| NetEndPoint | hostExternal | |
| NetEndPoint | clientInternal | |
| NetEndPoint | clientExternal | |
| System.String | additionalInfo | |

PollEvents()

Declaration

public void PollEvents()

SendNatIntroduceRequest(NetEndPoint, String)

Declaration

public void SendNatIntroduceRequest(NetEndPoint masterServerEndPoint, string additionalInfo)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------------|-------------|
| NetEndPoint | masterServerEndPoint | |
| System.String | additionalInfo | |

Class NetConstants

Network constants. Can be tuned from sources for your purposes.

Inheritance

System.Object

NetConstants

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public static class NetConstants

Fields

DefaultWindowSize

Declaration

public const int DefaultWindowSize = 64

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

FlowIncreaseThreshold

Declaration

public const int FlowIncreaseThreshold = 4

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

FlowUpdateTime

Declaration

public const int FlowUpdateTime = 1000

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Fragment Header Size

Declaration

public const int FragmentHeaderSize = 6

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Half Max Sequence

Declaration

public const ushort HalfMaxSequence = 16384

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

HeaderSize

Declaration

public const int HeaderSize = 1

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

MaxSequence

Declaration

public const ushort MaxSequence = 32768

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

MinPacketDataSize

Declaration

public const int MinPacketDataSize = 507

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

MinPacketSize

Declaration

public const int MinPacketSize = 508

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Min Sequence d Packet Data Size

Declaration

public const int MinSequencedPacketDataSize = 505

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

${\sf SequencedHeaderSize}$

Declaration

public const int SequencedHeaderSize = 3

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

SocketBufferSize

Declaration

public const int SocketBufferSize = 4194304

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

SocketTTL

Declaration

public const int SocketTTL = 255

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Class NetDebug

Static class for defining your own LiteNetLib logger instead of Console.WriteLine or Debug.Log if compiled with UNITY flag

Inheritance

System.Object

NetDebug

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public static class NetDebug

Fields

Logger

Declaration

public static INetLogger Logger

| ТҮРЕ | DESCRIPTION |
|------------|-------------|
| INetLogger | |

Class NetEndPoint

Network End Point. Contains ip address and port

Inheritance

System.Object

NetEndPoint

Inherited Members

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NetEndPoint

Constructors

NetEndPoint(String, Int32)

Declaration

public NetEndPoint(string hostStr, int port)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|--|
| System.String | hostStr | A valid host string that can be resolved by DNS or parsed as an IP address |
| System.Int32 | port | Port of the end point |

Exceptions

| ТУРЕ | CONDITION |
|---|---|
| System.ArgumentException | hostStr contains an invalid IP address |
| System. Argument Out Of Range Exception | port is less than IPEndPoint.MinPort or port is greater than IPEndPoint.MaxPort |

Fields

IPv4Any

Declaration

public static readonly string IPv4Any

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

IPv6Any

Declaration

public static readonly string IPv6Any

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Properties

Host

Declaration

```
public string Host { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Port

Declaration

```
public int Port { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

Equals(Object)

Declaration

public override bool Equals(object obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Overrides

System.Object.Equals(System.Object)

GetHashCode()

Declaration

public override int GetHashCode()

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Overrides

System.Object.GetHashCode()

ToString()

Declaration

public override string ToString()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System.Object.ToString()

Class NetManager

Main class for all network operations. Can be used as client and/or server.

Inheritance

System.Object

NetManager

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NetManager

Constructors

NetManager(INetEventListener)

NetManager constructor with maxConnections = 1 (usable for client)

Declaration

public NetManager(INetEventListener listener)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|----------|-------------------------|
| INetEventListener | listener | Network events listener |

NetManager(INetEventListener, Int32)

NetManager constructor

Declaration

public NetManager(INetEventListener listener, int maxConnections)

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|----------------|--|
| INetEventListener | listener | Network events listener |
| System.Int32 | maxConnections | Maximum connections (incoming and outcoming) |

Fields

DisconnectTimeout

If NetManager doesn't receive any packet from remote peer during this time then connection will be closed (including library internal keepalive packets)

Declaration

public int DisconnectTimeout

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

DiscoveryEnabled

Allows receive DiscoveryRequests

Declaration

public bool DiscoveryEnabled

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

MaxConnectAttempts

Maximum connection attempts before client stops and call disconnect event.

Declaration

public int MaxConnectAttempts

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

MergeEnabled

Merge small packets into one before sending to reduce outgoing packets count. (May increase a bit outgoing data size)

Declaration

public bool MergeEnabled

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

NatPunchEnabled

Enable nat punch messages

Declaration

public bool NatPunchEnabled

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

NatPunchModule

NatPunchModule for NAT hole punching operations

Declaration

public readonly NatPunchModule NatPunchModule

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| NatPunchModule | |

PingInterval

Interval for latency detection and checking connection

Declaration

public int PingInterval

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

ReconnectDelay

Delay betwen initial connection attempts

Declaration

public int ReconnectDelay

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

ReuseAddress

Enables socket option "ReuseAddress" for specific purposes

Declaration

public bool ReuseAddress

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SimulateLatency

Simulate latency by holding packets for random time. (Works only in DEBUG mode)

Declaration

public bool SimulateLatency

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SimulatePacketLoss

Simulate packet loss by dropping random amout of packets. (Works only in DEBUG mode)

Declaration

public bool SimulatePacketLoss

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

${\sf Simulation} \\ {\sf MaxLatency}$

Maximum simulated latency

Declaration

public int SimulationMaxLatency

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

${\sf Simulation MinLatency}$

Minimum simulated latency

Declaration

public int SimulationMinLatency

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Simulation Packet Loss Chance

Chance of packet loss when simulation enabled. value in percents (1 - 100).

Declaration

public int SimulationPacketLossChance

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Statistics

Statistics of all connections

Declaration

public readonly NetStatistics Statistics

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetStatistics | |

Unconnected Messages Enabled

Enable messages receiving without connection. (with SendUnconnectedMessage method)

Declaration

public bool UnconnectedMessagesEnabled

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

UnsyncedEvents

Experimental feature. Events automatically will be called without PollEvents method from another thread

Declaration

public bool UnsyncedEvents

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

${\sf UpdateTime}$

Library logic update and send period in milliseconds

Declaration

public int UpdateTime

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

IsRunning

Returns true if socket listening and update thread is running

Declaration

```
public bool IsRunning { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

LocalPort

Local EndPoint (host and port)

Declaration

```
public int LocalPort { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

PeersCount

Declaration

```
public int PeersCount { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

Connect(NetEndPoint, NetDataWriter)

Connect to remote host

Declaration

```
public NetPeer Connect(NetEndPoint target, NetDataWriter connectionData)
```

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|---------------------------------|
| NetEndPoint | target | Server end point (ip and port) |
| NetDataWriter | connectionData | Additional data for remote peer |

Returns

| ТҮРЕ | DESCRIPTION |
|---------|--|
| NetPeer | Null if connections limit reached, New NetPeer if new connection, Old NetPeer if already connected |

Exceptions

| ТУРЕ | CONDITION |
|----------------------------------|--------------------------------------|
| System.InvalidOperationException | Manager is not running. Call Start() |

Connect(NetEndPoint, String)

Connect to remote host

Declaration

public NetPeer Connect(NetEndPoint target, string key)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|--------------------------------|
| NetEndPoint | target | Server end point (ip and port) |
| System.String | key | Connection key |

Returns

| ТҮРЕ | DESCRIPTION |
|---------|--|
| NetPeer | Null if connections limit reached, New NetPeer if new connection, Old NetPeer if already connected |

Exceptions

| ТУРЕ | CONDITION |
|----------------------------------|--------------------------------------|
| System.InvalidOperationException | Manager is not running. Call Start() |

Connect(String, Int32, NetDataWriter)

Connect to remote host

Declaration

public NetPeer Connect(string address, int port, NetDataWriter connectionData)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|---------------------------------|
| System.String | address | Server IP or hostname |
| System.Int32 | port | Server Port |
| NetDataWriter | connectionData | Additional data for remote peer |

Returns

| ТҮРЕ | DESCRIPTION |
|---------|--|
| NetPeer | Null if connections limit reached, New NetPeer if new connection, Old NetPeer if already connected |

Exceptions

| ТУРЕ | CONDITION |
|----------------------------------|--------------------------------------|
| System.InvalidOperationException | Manager is not running. Call Start() |

Connect(String, Int32, String)

Connect to remote host

Declaration

public NetPeer Connect(string address, int port, string key)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|-----------------------|
| System.String | address | Server IP or hostname |
| System.Int32 | port | Server Port |
| System.String | key | Connection key |

Returns

| TYPE | DESCRIPTION |
|---------|--|
| NetPeer | Null if connections limit reached, New NetPeer if new connection, Old NetPeer if already connected |

Exceptions

| ТУРЕ | CONDITION |
|----------------------------------|--------------------------------------|
| System.InvalidOperationException | Manager is not running. Call Start() |

DisconnectAll()

Declaration

public void DisconnectAll()

DisconnectAll(Byte[], Int32, Int32)

Declaration

public void DisconnectAll(byte[] data, int start, int count)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.Byte[] | data | |
| System.Int32 | start | |
| System.Int32 | count | |

DisconnectPeer(NetPeer)

Disconnect peer from server

Declaration

public void DisconnectPeer(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|--------------------|
| NetPeer | peer | peer to disconnect |

DisconnectPeer(NetPeer, NetDataWriter)

Disconnect peer from server and send additional data (Size must be less or equal MTU - 8)

Declaration

public void DisconnectPeer(NetPeer peer, NetDataWriter writer)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|--------------------|
| NetPeer | peer | peer to disconnect |
| NetDataWriter | writer | additional data |

DisconnectPeer(NetPeer, Byte[])

Disconnect peer from server and send additional data (Size must be less or equal MTU - 8)

Declaration

public void DisconnectPeer(NetPeer peer, byte[] data)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|--------------------|
| NetPeer | peer | peer to disconnect |
| System.Byte[] | data | additional data |

DisconnectPeer(NetPeer, Byte[], Int32, Int32)

Disconnect peer from server and send additional data (Size must be less or equal MTU - 8)

Declaration

public void DisconnectPeer(NetPeer peer, byte[] data, int start, int count)

Parameters

| TYPE | NAME | DESCRIPTION | |
|---------------|-------|--------------------|--|
| NetPeer | peer | peer to disconnect | |
| System.Byte[] | data | additional data | |
| System.Int32 | start | data start | |
| System.Int32 | count | data length | |

DisconnectPeerForce(NetPeer)

Immediately disconnect peer from server without additional data

Declaration

public void DisconnectPeerForce(NetPeer peer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------|------|--------------------|
| NetPeer | peer | peer to disconnect |

Flush()

Flush all queued packets of all peers

Declaration

```
public void Flush()
```

GetFirstPeer()

Get first peer. Usefull for Client mode

Declaration

```
public NetPeer GetFirstPeer()
```

Returns

| ТУРЕ | DESCRIPTION |
|---------|-------------|
| NetPeer | |

GetPeers()

Get copy of current connected peers (slow! use GetPeersNonAlloc for best performance)

Declaration

```
[Obsolete("Use GetPeers(ConnectionState peerState)")]
public NetPeer[] GetPeers()
```

Returns

| ТҮРЕ | DESCRIPTION |
|-----------|----------------------------|
| NetPeer[] | Array with connected peers |

GetPeers(ConnectionState)

Get copy of current connected peers (slow! use GetPeersNonAlloc for best performance)

Declaration

```
public NetPeer[] GetPeers(ConnectionState peerState)
```

| ТҮРЕ | NAME | DESCRIPTION |
|------|------|-------------|
| | | |

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-----------|-------------|
| ConnectionState | peerState | |

Returns

| ТУРЕ | DESCRIPTION |
|-----------|----------------------------|
| NetPeer[] | Array with connected peers |

GetPeersCount(ConnectionState)

Declaration

public int GetPeersCount(ConnectionState peerState)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-----------|-------------|
| ConnectionState | peerState | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetPeersNonAlloc(List<NetPeer>, ConnectionState)

Get copy of peers (without allocations)

Declaration

public void GetPeersNonAlloc(List<NetPeer> peers, ConnectionState peerState)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---|-----------|-------------------------------|
| System.Collections.Generic.List < NetPeer > | peers | List that will contain result |
| ConnectionState | peerState | State of peers |

PollEvents()

Receive all pending events. Call this in game update code

Declaration

public void PollEvents()

SendDiscoveryRequest(NetDataWriter, Int32)

Declaration

public bool SendDiscoveryRequest(NetDataWriter writer, int port)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |
| System.Int32 | port | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SendDiscoveryRequest(Byte[], Int32)

Declaration

public bool SendDiscoveryRequest(byte[] data, int port)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Byte[] | data | |
| System.Int32 | port | |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SendDiscoveryRequest(Byte[], Int32, Int32, Int32)

Declaration

public bool SendDiscoveryRequest(byte[] data, int start, int length, int port)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | data | |
| System.Int32 | start | |
| System.Int32 | length | |
| System.Int32 | port | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SendDiscoveryResponse(NetDataWriter, NetEndPoint)

Declaration

public bool SendDiscoveryResponse(NetDataWriter writer, NetEndPoint remoteEndPoint)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| NetDataWriter | writer | |
| NetEndPoint | remoteEndPoint | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SendDiscoveryResponse(Byte[], NetEndPoint)

Declaration

public bool SendDiscoveryResponse(byte[] data, NetEndPoint remoteEndPoint)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| System.Byte[] | data | |
| NetEndPoint | remoteEndPoint | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

SendDiscoveryResponse(Byte[], Int32, Int32, NetEndPoint)

Declaration

public bool SendDiscoveryResponse(byte[] data, int start, int length, NetEndPoint remoteEndPoint)

| TYPE | NAME | DESCRIPTION |
|------------------|-------|-------------|
| System.Byte[] da | data | |
| System.Int32 st | start | |

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|----------------|-------------|
| System.Int32 | length | |
| NetEndPoint | remoteEndPoint | |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

$Send To All (Net Data Writer,\ Delivery Method)$

Send data to all connected peers

Declaration

public void SendToAll(NetDataWriter writer, DeliveryMethod options)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|---------|---|
| NetDataWriter | writer | DataWriter with data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |

SendToAll(NetDataWriter, DeliveryMethod, NetPeer)

Send data to all connected peers

Declaration

public void SendToAll(NetDataWriter writer, DeliveryMethod options, NetPeer excludePeer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------|---|
| NetDataWriter | writer | DataWriter with data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |
| NetPeer | excludePeer | Excluded peer |

SendToAll(Byte[], DeliveryMethod)

Send data to all connected peers

Declaration

public void SendToAll(byte[] data, DeliveryMethod options)

Parameters

| TY | PE | NAME | DESCRIPTION |
|-----|--------------|---------|---|
| Sys | stem.Byte[] | data | Data |
| De | liveryMethod | options | Send options (reliable, unreliable, etc.) |

SendToAll(Byte[], DeliveryMethod, NetPeer)

Send data to all connected peers

Declaration

public void SendToAll(byte[] data, DeliveryMethod options, NetPeer excludePeer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------|---|
| System.Byte[] | data | Data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |
| NetPeer | excludePeer | Excluded peer |

SendToAll(Byte[], Int32, Int32, DeliveryMethod)

Send data to all connected peers

Declaration

public void SendToAll(byte[] data, int start, int length, DeliveryMethod options)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|----------------|
| System.Byte[] | data | Data |
| System.Int32 | start | Start of data |
| System.Int32 | length | Length of data |

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|---|
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |

SendToAll(Byte[], Int32, Int32, DeliveryMethod, NetPeer)

Send data to all connected peers

Declaration

public void SendToAll(byte[] data, int start, int length, DeliveryMethod options, NetPeer excludePeer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------|---|
| System.Byte[] | data | Data |
| System.Int32 | start | Start of data |
| System.Int32 | length | Length of data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |
| NetPeer | excludePeer | Excluded peer |

$SendUnconnected Message (Net Data Writer,\ Net End Point)$

Send message without connection

Declaration

public bool SendUnconnectedMessage(NetDataWriter writer, NetEndPoint remoteEndPoint)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------|
| NetDataWriter | writer | Data serializer |
| NetEndPoint | remoteEndPoint | Packet destination |

Returns

| ТҮРЕ | DESCRIPTION |
|------|-------------|
| | |

| ТҮРЕ | DESCRIPTION |
|----------------|------------------|
| System.Boolean | Operation result |

$SendUnconnectedMessage(Byte[],\ NetEndPoint)$

Send message without connection

Declaration

public bool SendUnconnectedMessage(byte[] message, NetEndPoint remoteEndPoint)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------|
| System.Byte[] | message | Raw data |
| NetEndPoint | remoteEndPoint | Packet destination |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|------------------|
| System.Boolean | Operation result |

SendUnconnectedMessage(Byte[], Int32, Int32, NetEndPoint)

Send message without connection

Declaration

public bool SendUnconnectedMessage(byte[] message, int start, int length, NetEndPoint remoteEndPoint)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------|
| System.Byte[] | message | Raw data |
| System.Int32 | start | data start |
| System.Int32 | length | data length |
| NetEndPoint | remoteEndPoint | Packet destination |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|------------------|
| System.Boolean | Operation result |

Start()

Start logic thread and listening on available port

Declaration

public bool Start()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Start(Int32)

Start logic thread and listening on selected port

Declaration

public bool Start(int port)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|----------------|
| System.Int32 | port | port to listen |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Start(String, String, Int32)

Start logic thread and listening on selected port

 ${\tt Declaration}$

public bool Start(string addressIPv4, string addressIPv6, int port)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------------|-------------------------------|
| System.String | addressIPv4 | bind to specific ipv4 address |
| System.String | addressIPv6 | bind to specific ipv6 address |

| ТҮРЕ | NAME | DESCRIPTION | |
|--------------|------|----------------|--|
| System.Int32 | port | port to listen | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Stop()

Force closes connection and stop all threads.

Declaration

| public | void | Stop | () |
|--------|------|------|----|
|--------|------|------|----|

Class NetPeer

Network peer. Main purpose is sending messages to specific peer.

Inheritance

System.Object

NetPeer

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NetPeer

Fields

Statistics

Statistics of peer connection

Declaration

public readonly NetStatistics Statistics

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetStatistics | |

Tag

Application defined object containing data about the connection

Declaration

public object Tag

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Object | |

Properties

ConnectId

Connection id for internal purposes, but can be used as key in your dictionary of peers

Declaration

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

ConnectionState

Current connection state

Declaration

```
public ConnectionState ConnectionState { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| ConnectionState | |

EndPoint

Peer ip address and port

Declaration

```
public NetEndPoint { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| NetEndPoint | |

Mtu

Current MTU - Maximum Transfer Unit (maximum udp packet size without fragmentation)

Declaration

```
public int Mtu { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

NetManager

Peer parent NetManager

Declaration

```
public NetManager NetManager { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|------------|-------------|
| NetManager | |

Packets Count In Reliable Ordered Queue

Declaration

public int PacketsCountInReliableOrderedQueue { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Packets Count In Reliable Queue

Declaration

public int PacketsCountInReliableQueue { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Ping

Current ping in milliseconds

Declaration

public int Ping { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

TimeSinceLastPacket

Time since last packet received (including internal library packets)

Declaration

public int TimeSinceLastPacket { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

Disconnect()

public void Disconnect()

Disconnect(NetDataWriter)

Declaration

public void Disconnect(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Disconnect(Byte[])

Declaration

public void Disconnect(byte[] data)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Byte[] | data | |

Disconnect(Byte[], Int32, Int32)

Declaration

public void Disconnect(byte[] data, int start, int count)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.Byte[] | data | |
| System.Int32 | start | |
| System.Int32 | count | |

Flush()

Flush all queued packets

Declaration

public void Flush()

Get Max Single Packet Size (Delivery Method)

Gets maximum size of packet that will be not fragmented.

Declaration

public int GetMaxSinglePacketSize(DeliveryMethod options)

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|-----------------------------------|
| DeliveryMethod | options | Type of packet that you want send |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|---------------|
| System.Int32 | size in bytes |

Send(NetDataWriter, DeliveryMethod)

Send data to peer

Declaration

public void Send(NetDataWriter dataWriter, DeliveryMethod options)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------------|---|
| NetDataWriter | dataWriter | DataWriter with data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |

Exceptions

| ТҮРЕ | CONDITION |
|-----------------------|--|
| TooBigPacketException | If size exceeds maximum limit: MTU - headerSize bytes for Unreliable Fragment count exceeded ushort.MaxValue |

Send(Byte[], DeliveryMethod)

Send data to peer

Declaration

public void Send(byte[] data, DeliveryMethod options)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Byte[] | data | Data |

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|---|
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |

Exceptions

| ТҮРЕ | CONDITION |
|-----------------------|--|
| TooBigPacketException | If size exceeds maximum limit: MTU - headerSize bytes for Unreliable Fragment count exceeded ushort.MaxValue |

Send(Byte[], Int32, Int32, DeliveryMethod)

Send data to peer

Declaration

public void Send(byte[] data, int start, int length, DeliveryMethod options)

${\tt Parameters}$

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|---|
| System.Byte[] | data | Data |
| System.Int32 | start | Start of data |
| System.Int32 | length | Length of data |
| DeliveryMethod | options | Send options (reliable, unreliable, etc.) |

Exceptions

| ТУРЕ | CONDITION |
|-----------------------|--|
| TooBigPacketException | If size exceeds maximum limit: MTU - headerSize bytes for Unreliable Fragment count exceeded ushort.MaxValue |

Class NetStatistics

Inheritance

System.Object

NetStatistics

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System. Object. Reference Equals (System. Object, System. Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NetStatistics

Fields

BytesReceived

Declaration

public ulong BytesReceived

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

BytesSent

Declaration

public ulong BytesSent

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

PacketLoss

Declaration

public ulong PacketLoss

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

PacketsReceived

public ulong PacketsReceived

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

PacketsSent

Declaration

public ulong PacketsSent

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

Properties

PacketLossPercent

Declaration

public ulong PacketLossPercent { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

Methods

ToString()

Declaration

public override string ToString()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

System.Object.ToString()

Class NetUtils

Some specific network utilities

Inheritance

System.Object

NetUtils

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

public static class NetUtils

Methods

GetLocalIp(LocalAddrType)

Get first detected local ip address

Declaration

public static string GetLocalIp(LocalAddrType addrType)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------|--------------------------------------|
| LocalAddrType | addrType | type of address (IPv4, IPv6 or both) |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|--|
| System.String | IP address if available. Else - string.Empty |

GetLocallpList(LocalAddrType)

Get all local ip addresses

Declaration

public static List<string> GetLocalIpList(LocalAddrType addrType)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------|--------------------------------------|
| LocalAddrType | addrType | type of address (IPv4, IPv6 or both) |

Returns

| ТҮРЕ | DESCRIPTION |
|---|---------------------------------|
| System.Collections.Generic.List < System.String > | List with all local ip adresses |

GetLocallpList(List<String>, LocalAddrType)

Get all local ip addresses (non alloc version)

Declaration

public static void GetLocalIpList(List<string> targetList, LocalAddrType addrType)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---|------------|--------------------------------------|
| System.Collections.Generic.List < System.String > | targetList | result list |
| LocalAddrType | addrType | type of address (IPv4, IPv6 or both) |

RequestTimeFromNTP(String, Int32, Action < Nullable < DateTime >>)

Request time from NTP server and calls callback (if success)

Declaration

public static void RequestTimeFromNTP(string ntpServerAddress, int port, Action<DateTime? > onRequestComplete)

| ТҮРЕ | NAME | DESCRIPTION |
|---|-------------------|--------------------------------------|
| System.String | ntpServerAddress | NTP Server address |
| System.Int32 | port | port |
| System.Action < System.Nullable < System.DateTime > > | onRequestComplete | callback (called from other thread!) |

Class TooBigPacketException

Inheritance

System.Object

System.Exception

System.SystemException

System.ArgumentException

InvalidPacketException

TooBigPacketException

Implements

System.Runtime.Serialization.ISerializable

System.Runtime.InteropServices._Exception

Inherited Members

System. Argument Exception. Get Object Data (System. Runtime. Serialization. Serialization Info, and the support of the properties of th

System.Runtime.Serialization.StreamingContext)

System.ArgumentException.ParamName

System. Argument Exception. Message

System.Exception.GetBaseException()

System.Exception.ToString()

System.Exception.GetType()

System.Exception.InnerException

System.Exception.HelpLink

System.Exception.HResult

System.Exception.Source

System.Exception.StackTrace

System.Exception.TargetSite

System.Exception.Data

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib

Assembly: Assembly-CSharp.dll

Syntax

 $\verb"public class TooBigPacketException": InvalidPacketException", ISerializable, _Exception$

Constructors

TooBigPacketException()

Declaration

public TooBigPacketException()

TooBigPacketException(String)

Declaration

public TooBigPacketException(string message)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | message | |

TooBigPacketException(String, Exception)

Declaration

public TooBigPacketException(string message, Exception innerException)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------|----------------|-------------|
| System.String | message | |
| System.Exception | innerException | |

Implements

System.Runtime.Serialization.ISerializable System.Runtime.InteropServices._Exception

Enum UnconnectedMessageType

Type of message that you receive in OnNetworkReceiveUnconnected event

Namespace: LiteNetLib
Assembly: Assembly-CSharp.dII

Syntax

| public enum UnconnectedMessageType | | | | |
|------------------------------------|-----|--------|-----|------------------------|
| | bub | lic er | num | UnconnectedMessageType |

Fields

| NAME | DESCRIPTION |
|-------------------|-------------|
| BasicMessage | |
| DiscoveryRequest | |
| DiscoveryResponse | |

Namespace LiteNetLib.Utils

Classes

FastBitConverter

Invalid Type Exception

NetDataReader

NetDataWriter

NetPacketProcessor

NetSerializer

ParseException

Interfaces

INetSerializable

Delegates

Net Packet Processor. Subscrie Delegate

Class FastBitConverter

Inheritance

System.Object

FastBitConverter

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib.Utils

Assembly: Assembly-CSharp.dll

Syntax

public static class FastBitConverter

Methods

GetBytes(Byte[], Int32, Double)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, double value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.Double | value | |

GetBytes(Byte[], Int32, Int16)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, short value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.Int16 | value | |

GetBytes(Byte[], Int32, Int32)

public static void GetBytes(byte[] bytes, int startIndex, int value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.Int32 | value | |

GetBytes(Byte[], Int32, Int64)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, long value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.Int64 | value | |

GetBytes(Byte[], Int32, Single)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, float value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.Single | value | |

GetBytes(Byte[], Int32, UInt16)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, ushort value)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| | | |

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.UInt16 | value | |

GetBytes(Byte[], Int32, UInt32)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, uint value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.UInt32 | value | |

GetBytes(Byte[], Int32, UInt64)

Declaration

public static void GetBytes(byte[] bytes, int startIndex, ulong value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.Byte[] | bytes | |
| System.Int32 | startIndex | |
| System.UInt64 | value | |

WriteLittleEndian(Byte[], Int32, Int16)

Declaration

public static void WriteLittleEndian(byte[] buffer, int offset, short data)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | buffer | |
| System.Int32 | offset | |
| System.Int16 | data | |

Interface INetSerializable

Namespace: Lite NetLib.Utils

Assembly: Assembly-CSharp.dll

Syntax

public interface INetSerializable

Methods

Deserialize(NetDataReader)

Declaration

void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

void Serialize(NetDataWriter writer)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Class InvalidTypeException

Inheritance

System.Object

System.Exception

System.SystemException

System.ArgumentException

InvalidTypeException

Implements

System.Runtime.Serialization.ISerializable

System.Runtime.InteropServices._Exception

Inherited Members

System.ArgumentException.GetObjectData(System.Runtime.Serialization.SerializationInfo,

System.Runtime.Serialization.StreamingContext)

System.ArgumentException.ParamName

System.ArgumentException.Message

System.Exception.GetBaseException()

System.Exception.ToString()

System.Exception.GetType()

System.Exception.InnerException

System.Exception.HelpLink

System.Exception.HResult

System.Exception.Source

System.Exception.StackTrace

System.Exception.TargetSite

System.Exception.Data

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib.Utils

Assembly: Assembly-CSharp.dll

Syntax

public class InvalidTypeException : ArgumentException, ISerializable, _Exception

Constructors

InvalidTypeException()

Declaration

public InvalidTypeException()

InvalidTypeException(String)

Declaration

public InvalidTypeException(string message)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | message | |

InvalidTypeException(String, Exception)

Declaration

public InvalidTypeException(string message, Exception innerException)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------|----------------|-------------|
| System.String | message | |
| System.Exception | innerException | |

InvalidTypeException(String, String)

Declaration

public InvalidTypeException(string message, string paramName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-----------|-------------|
| System.String | message | |
| System.String | paramName | |

InvalidTypeException(String, String, Exception)

Declaration

public InvalidTypeException(string message, string paramName, Exception innerException)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------|----------------|-------------|
| System.String | message | |
| System.String | paramName | |
| System.Exception | innerException | |

Implements

System.Runtime.Serialization.ISerializable System.Runtime.InteropServices._Exception

Class NetDataReader

Inheritance

System.Object

NetDataReader

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib.Utils

Assembly: Assembly-CSharp.dll

Syntax

public class NetDataReader

Constructors

NetDataReader()

Declaration

public NetDataReader()

NetDataReader(Byte[])

Declaration

public NetDataReader(byte[] source)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | source | |

NetDataReader(Byte[], Int32)

Declaration

public NetDataReader(byte[] source, int offset)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | source | |
| System.Int32 | offset | |

NetDataReader(Byte[], Int32, Int32)

Declaration

public NetDataReader(byte[] source, int offset, int maxSize)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.Byte[] | source | |
| System.Int32 | offset | |
| System.Int32 | maxSize | |

Fields

_data

Declaration

protected byte[] _data

Field Value

| ТУРЕ | DESCRIPTION | |
|---------------|-------------|--|
| System.Byte[] | | |

_dataSize

Declaration

protected int _dataSize

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

_position

Declaration

protected int _position

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

AvailableBytes

Declaration

public int AvailableBytes { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Data

Declaration

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

EndOfData

Declaration

```
public bool EndOfData { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Position

Declaration

```
public int Position { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

Clear()

Declaration

```
public void Clear()
```

Clone()

Clone NetDataReader without data copy (usable for OnReceive)

Declaration

```
public NetDataReader Clone()
```

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|----------------------------|
| NetDataReader | new NetDataReader instance |

GetBool()

public bool GetBool()

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

GetBoolArray()

Declaration

public bool[] GetBoolArray()

Returns

| ТУРЕ | DESCRIPTION |
|------------------|-------------|
| System.Boolean[] | |

GetByte()

Declaration

public byte GetByte()

Returns

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Byte | |

GetBytes(Byte[], Int32)

Declaration

public void GetBytes(byte[] destination, int lenght)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------------|-------------|
| System.Byte[] | destination | |
| System.Int32 | lenght | |

GetBytesWithLength()

Declaration

public byte[] GetBytesWithLength()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

GetChar()

public char GetChar()

Returns

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Char | |

GetDouble()

Declaration

public double GetDouble()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Double | |

GetDoubleArray()

Declaration

public double[] GetDoubleArray()

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| System.Double[] | |

GetFloat()

Declaration

public float GetFloat()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

GetFloatArray()

Declaration

public float[] GetFloatArray()

Returns

| ТУРЕ | DESCRIPTION |
|-----------------|-------------|
| System.Single[] | |

GetInt()

Declaration

public int GetInt()

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetIntArray()

Declaration

public int[] GetIntArray()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Int32[] | |

GetLong()

Declaration

public long GetLong()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

GetLongArray()

Declaration

public long[] GetLongArray()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Int64[] | |

GetNetEndPoint()

Declaration

public NetEndPoint GetNetEndPoint()

Returns

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| NetEndPoint | |

GetRemainingBytes()

Declaration

public byte[] GetRemainingBytes()

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

GetRemainingBytes(Byte[])

Declaration

public void GetRemainingBytes(byte[] destination)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------------|-------------|
| System.Byte[] | destination | |

GetSByte()

Declaration

public sbyte GetSByte()

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.SByte | |

GetShort()

Declaration

public short GetShort()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

GetShortArray()

Declaration

public short[] GetShortArray()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Int16[] | |

GetString()

Declaration

public string GetString()

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

GetString(Int32)

Declaration

public string GetString(int maxLength)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-----------|-------------|
| System.Int32 | maxLength | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

GetStringArray()

Declaration

public string[] GetStringArray()

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| System.String[] | |

GetStringArray(Int32)

Declaration

public string[] GetStringArray(int maxStringLength)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-------------|
| System.Int32 | maxStringLength | |

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| System.String[] | |

GetUInt()

Declaration

public uint GetUInt()

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt32 | |

GetUIntArray()

Declaration

public uint[] GetUIntArray()

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| System.UInt32[] | |

GetULong()

Declaration

public ulong GetULong()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

GetULongArray()

Declaration

public ulong[] GetULongArray()

Returns

| ТҮРЕ | | DESCRIPTION |
|--------|------------|-------------|
| Systen | n.UInt64[] | |

GetUShort()

Declaration

public ushort GetUShort()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

GetUShortArray()

Declaration

public ushort[] GetUShortArray()

| ТУРЕ | DESCRIPTION |
|-----------------|-------------|
| System.UInt16[] | |

PeekBool()

Declaration

public bool PeekBool()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

PeekByte()

Declaration

public byte PeekByte()

Returns

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Byte | |

PeekChar()

Declaration

public char PeekChar()

Returns

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Char | |

PeekDouble()

Declaration

public double PeekDouble()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Double | |

PeekFloat()

Declaration

public float PeekFloat()

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

PeekInt()

Declaration

public int PeekInt()

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

PeekLong()

Declaration

public long PeekLong()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int64 | |

PeekSByte()

Declaration

public sbyte PeekSByte()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.SByte | |

PeekShort()

Declaration

public short PeekShort()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

PeekString()

Declaration

public string PeekString()

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

PeekString(Int32)

Declaration

public string PeekString(int maxLength)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-----------|-------------|
| System.Int32 | maxLength | |

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

PeekUInt()

Declaration

public uint PeekUInt()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt32 | |

PeekULong()

Declaration

public ulong PeekULong()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

PeekUShort()

Declaration

public ushort PeekUShort()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

SetSource(NetDataWriter)

public void SetSource(NetDataWriter dataWriter)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|-------------|
| NetDataWriter | dataWriter | |

SetSource(Byte[])

Declaration

public void SetSource(byte[] source)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | source | |

SetSource(Byte[], Int32)

Declaration

public void SetSource(byte[] source, int offset)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | source | |
| System.Int32 | offset | |

SetSource(Byte[], Int32, Int32)

Declaration

public void SetSource(byte[] source, int offset, int maxSize)

| TYPE | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.Byte[] | source | |
| System.Int32 | offset | |
| System.Int32 | maxSize | |

Class NetDataWriter

Inheritance

System.Object

NetDataWriter

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: Lite NetLib. Utils

Assembly: Assembly-CSharp.dll

Syntax

public class NetDataWriter

Constructors

NetDataWriter()

Declaration

public NetDataWriter()

NetDataWriter(Boolean)

Declaration

public NetDataWriter(bool autoResize)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------------|-------------|
| System.Boolean | autoResize | |

NetDataWriter(Boolean, Int32)

Declaration

public NetDataWriter(bool autoResize, int initialSize)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-------------|-------------|
| System.Boolean | autoResize | |
| System.Int32 | initialSize | |

Fields

_data

protected byte[] _data

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

_position

Declaration

protected int _position

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

Capacity

Declaration

public int Capacity { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Data

Declaration

public byte[] Data { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

Length

Declaration

public int Length { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

CopyData()

Declaration

public byte[] CopyData()

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

FromBytes(Byte[], Boolean)

Creates NetDataWriter from existing ByteArray

Declaration

public static NetDataWriter FromBytes(byte[] bytes, bool copy)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|--|
| System.Byte[] | bytes | Source byte array |
| System.Boolean | сору | Copy array to new location or use existing |

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

FromBytes(Byte[], Int32, Int32)

Creates NetDataWriter from existing ByteArray (always copied data)

Declaration

public static NetDataWriter FromBytes(byte[] bytes, int offset, int length)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------------|
| System.Byte[] | bytes | Source byte array |
| System.Int32 | offset | Offset of array |
| System.Int32 | length | Length of array |

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

FromString(String)

Declaration

public static NetDataWriter FromString(string value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | value | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

Put(NetEndPoint)

Declaration

public void Put(NetEndPoint endPoint)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|----------|-------------|
| NetEndPoint | endPoint | |

Put(Boolean)

Declaration

public void Put(bool value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|-------------|
| System.Boolean | value | |

Put(Byte)

Declaration

public void Put(byte value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|-------|-------------|
| System.Byte | value | |

Put(Byte[])

public void Put(byte[] data)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Byte[] | data | |

Put(Byte[], Int32, Int32)

Declaration

public void Put(byte[] data, int offset, int length)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | data | |
| System.Int32 | offset | |
| System.Int32 | length | |

Put(Char)

Declaration

public void Put(char value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|-------|-------------|
| System.Char | value | |

Put(Double)

Declaration

public void Put(double value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.Double | value | |

Put(Int16)

Declaration

public void Put(short value)

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int16 | value | |

Put(Int32)

Declaration

public void Put(int value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int32 | value | |

Put(Int64)

Declaration

public void Put(long value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.Int64 | value | |

Put(SByte)

Declaration

public void Put(sbyte value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|-------------|
| System.SByte | value | |

Put(Single)

Declaration

public void Put(float value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.Single | value | |

Put(String)

Declaration

public void Put(string value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | value | |

Put(String, Int32)

Declaration

public void Put(string value, int maxLength)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-----------|-------------|
| System.String | value | |
| System.Int32 | maxLength | |

Put(UInt16)

Declaration

public void Put(ushort value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.UInt16 | value | |

Put(UInt32)

Declaration

public void Put(uint value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.UInt32 | value | |

Put(UInt64)

Declaration

public void Put(ulong value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.UInt64 | value | |

PutArray(Boolean[])

Declaration

public void PutArray(bool[] value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------|-------|-------------|
| System.Boolean[] | value | |

PutArray(Double[])

Declaration

public void PutArray(double[] value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.Double[] | value | |

PutArray(Int16[])

Declaration

public void PutArray(short[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|-------------|
| System.Int16[] | value | |

PutArray(Int32[])

Declaration

public void PutArray(int[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|-------------|
| System.Int32[] | value | |

PutArray(Int64[])

Declaration

public void PutArray(long[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|-------------|
| System.Int64[] | value | |

PutArray(Single[])

Declaration

public void PutArray(float[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.Single[] | value | |

PutArray(String[])

Declaration

public void PutArray(string[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.String[] | value | |

PutArray(String[], Int32)

Declaration

public void PutArray(string[] value, int maxLength)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-----------|-------------|
| System.String[] | value | |
| System.Int32 | maxLength | |

PutArray(UInt16[])

Declaration

public void PutArray(ushort[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.UInt16[] | value | |

PutArray(UInt32[])

Declaration

public void PutArray(uint[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.UInt32[] | value | |

PutArray(UInt64[])

Declaration

public void PutArray(ulong[] value)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------|-------------|
| System.UInt64[] | value | |

PutBytesWithLength(Byte[])

Declaration

public void PutBytesWithLength(byte[] data)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Byte[] | data | |

PutBytesWithLength(Byte[], Int32, Int32)

Declaration

public void PutBytesWithLength(byte[] data, int offset, int length)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Byte[] | data | |
| System.Int32 | offset | |
| System.Int32 | length | |

Reset()

Declaration

public void Reset()

Reset(Int32)

Declaration

public void Reset(int size)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | size | |

ResizeIfNeed(Int32)

Declaration

public void ResizeIfNeed(int newSize)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------|
| System.Int32 | newSize | |

Class NetPacketProcessor

Inheritance

System.Object

NetPacketProcessor

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: Lite NetLib. Utils

Assembly: Assembly-CSharp.dll

Syntax

public class NetPacketProcessor

Methods

GetCallbackFromData(NetDataReader)

Declaration

protected virtual NetPacketProcessor.SubscrieDelegate GetCallbackFromData(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------------------------------|-------------|
| NetPacketProcessor.SubscrieDelegate | |

GetHash(Type)

Declaration

protected virtual ulong GetHash(Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |

Returns

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt64 | |

ReadAllPackets(NetDataReader)

Reads all available data from NetDataReader and calls OnReceive delegates

Declaration

public void ReadAllPackets(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|---------------------------------|
| NetDataReader | reader | NetDataReader with packets data |

ReadAllPackets(NetDataReader, Object)

Reads all available data from NetDataReader and calls OnReceive delegates

Declaration

public void ReadAllPackets(NetDataReader reader, object userData)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------|---|
| NetDataReader | reader | NetDataReader with packets data |
| System.Object | userData | Argument that passed to OnReceivedEvent |

Exceptions

| ТУРЕ | CONDITION |
|----------------|------------------|
| ParseException | Malformed packet |

ReadPacket(NetDataReader)

Reads one packet from NetDataReader and calls OnReceive delegate

Declaration

public void ReadPacket(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|---------------------------|
| NetDataReader | reader | NetDataReader with packet |

Exceptions

| ТҮРЕ | CONDITION |
|----------------|------------------|
| ParseException | Malformed packet |

$ReadPacket (NetDataReader,\ Object)$

Reads one packet from NetDataReader and calls OnReceive delegate

Declaration

public void ReadPacket(NetDataReader reader, object userData)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------|---|
| NetDataReader | reader | NetDataReader with packet |
| System.Object | userData | Argument that passed to OnReceivedEvent |

Exceptions

| ТУРЕ | CONDITION |
|----------------|------------------|
| ParseException | Malformed packet |

RegisterNestedType<T>()

Register nested property type

Declaration

public bool RegisterNestedType<T>()where T : struct, INetSerializable

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | True - if register successful, false - if type already registered |

Type Parameters

| NAME | DESCRIPTION |
|------|----------------------------|
| Т | INetSerializable structure |

$Register Nested Type < T > (Action < Net Data Writer, \ T >, \ Func < Net Data Reader, \ T >)$

Register nested property type

Declaration

public bool RegisterNestedType<T>(Action<NetDataWriter, T> writeDelegate, Func<NetDataReader, T> readDelegate)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--|---------------|-------------|
| System.Action < NetDataWriter, T> | writeDelegate | |
| System.Func <netdatareader, t=""></netdatareader,> | readDelegate | |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | True - if register successful, false - if type already registered |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

RegisterNestedType<T>(Func<T>)

Register nested property type

Declaration

public bool RegisterNestedType<T>(Func<T> constructor)where T : class, INetSerializable

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------------|-------------|-------------|
| System.Func <t></t> | constructor | |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | True - if register successful, false - if type already registered |

Type Parameters

| NAME | DESCRIPTION |
|------|------------------------|
| Т | INetSerializable class |

Send<T>(NetManager, T, DeliveryMethod)

Declaration

public void Send<T>(NetManager manager, T packet, DeliveryMethod options)where T : class, new ()

| ТУРЕ | NAME | DESCRIPTION |
|----------------|---------|-------------|
| NetManager | manager | |
| Т | packet | |
| DeliveryMethod | options | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Send<T>(NetPeer, T, DeliveryMethod)

Declaration

public void Send<T>(NetPeer peer, T packet, DeliveryMethod options)where T : class, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|-------------|
| NetPeer | peer | |
| Т | packet | |
| DeliveryMethod | options | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

SendNetSerializable<T>(NetManager, T, DeliveryMethod)

Declaration

public void SendNetSerializable<T>(NetManager manager, T packet, DeliveryMethod options)where T :
INetSerializable

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|---------|-------------|
| NetManager | manager | |
| Т | packet | |
| DeliveryMethod | options | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

SendNetSerializable<T>(NetPeer, T, DeliveryMethod)

Declaration

public void SendNetSerializable<T>(NetPeer peer, T packet, DeliveryMethod options)where T : INetSerializable

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|-------------|
| NetPeer | peer | |
| Т | packet | |
| DeliveryMethod | options | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Subscribe<T>(Action<T>, Func<T>)

Register and subscribe to packet receive event

Declaration

public void Subscribe<T>(Action<T> onReceive, Func<T> packetConstructor)where T : class, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION | |
|-----------------------|-------------------|---|--|
| System.Action <t></t> | onReceive | event that will be called when packet deserialized with ReadPacket method | |
| System.Func <t></t> | packetConstructor | Method that constructs packet intead of slow Activator.CreateInstance | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТУРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

Subscribe<T, TUserData>(Action<T, TUserData>, Func<T>)

Register and subscribe to packet receive event (with userData)

Declaration

public void Subscribe<T, TUserData>(Action<T, TUserData> onReceive, Func<T> packetConstructor)where T : class, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION | |
|--------------------------------|-------------------|---|--|
| System.Action < T, TUserData > | onReceive | event that will be called when packet deserialized with ReadPacket method | |
| System.Func <t></t> | packetConstructor | Method that constructs packet intead of slow Activator.CreateInstance | |

Type Parameters

| NAME | DESCRIPTION |
|-----------|-------------|
| Т | |
| TUserData | |

Exceptions

| ТҮРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

SubscribeNetSerializable<T>(Action<T>)

Declaration

public void SubscribeNetSerializable<T>(Action<T> onReceive)where T : INetSerializable, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------------|-----------|-------------|
| System.Action < T > | onReceive | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

SubscribeNetSerializable<T>(Action<T>, Func<T>)

Declaration

public void SubscribeNetSerializable<T>(Action<T> onReceive, Func<T> packetConstructor)where T :
INetSerializable

| ТУРЕ | NAME | DESCRIPTION |
|-----------------------|-------------------|-------------|
| System.Action <t></t> | onReceive | |
| System.Func <t></t> | packetConstructor | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

SubscribeNetSerializable<T, TUserData>(Action<T, TUserData>)

Declaration

public void SubscribeNetSerializable<T, TUserData>(Action<T, TUserData> onReceive)where T : INetSerializable, new ()

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------------------------|-----------|-------------|
| System.Action < T, TUserData > | onReceive | |

Type Parameters

| NAME | DESCRIPTION |
|-----------|-------------|
| Т | |
| TUserData | |

SubscribeNetSerializable<T, TUserData>(Action<T, TUserData>, Func<T>)

Declaration

public void SubscribeNetSerializable<T, TUserData>(Action<T, TUserData> onReceive, Func<T>
packetConstructor)where T : INetSerializable

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------------------------------|-------------------|-------------|
| System.Action <t, tuserdata=""></t,> | onReceive | |
| System.Func <t></t> | packetConstructor | |

Type Parameters

| NAME | DESCRIPTION |
|-----------|-------------|
| Т | |
| TUserData | |

SubscribeReusable<T>(Action<T>)

Register and subscribe to packet receive event This metod will overwrite last received packet class on receive (less garbage)

Declaration

public void SubscribeReusable<T>(Action<T> onReceive)where T : class, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------------|-----------|---|
| System.Action < T > | onReceive | event that will be called when packet deserialized with ReadPacket method |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТУРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

SubscribeReusable < T, TUserData > (Action < T, TUserData >)

Register and subscribe to packet receive event This metod will overwrite last received packet class on receive (less garbage)

Declaration

public void SubscribeReusable<T, TUserData>(Action<T, TUserData> onReceive)where T : class, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------------------|-----------|---|
| System.Action < T, TUserData > | onReceive | event that will be called when packet deserialized with ReadPacket method |

Type Parameters

| NAME | DESCRIPTION |
|-----------|-------------|
| Т | |
| TUserData | |

Exceptions

| ТУРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

Write<T>(T)

Declaration

| e <t>(T packet)where T : class, new ()</t> |
|--|
|--|

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------|--------|-------------|
| Т | packet | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Write<T>(NetDataWriter, T)

Declaration

public void Write<T>(NetDataWriter writer, T packet)where T : class, new ()

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |
| Т | packet | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

WriteHash(Type, NetDataWriter)

Declaration

protected virtual void WriteHash(Type type, NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| System.Type | type | |
| NetDataWriter | writer | |

WriteNetSerializable<T>(T)

Declaration

public byte[] WriteNetSerializable<T>(T packet)where T : INetSerializable

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------|--------|-------------|
| Т | packet | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

WriteNetSerializable < T > (NetDataWriter, T)

Declaration

public void WriteNetSerializable<T>(NetDataWriter writer, T packet)where T : INetSerializable

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |
| Т | packet | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Delegate NetPacketProcessor.SubscrieDelegate

Namespace: LiteNetLib.Utils
Assembly: Assembly-CSharp.dll

Syntax

protected delegate void SubscrieDelegate(NetDataReader reader, object userData);

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------|-------------|
| NetDataReader | reader | |
| System.Object | userData | |

Class NetSerializer

Inheritance

System.Object

NetSerializer

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: Lite NetLib. Utils

Assembly: Assembly-CSharp.dll

Syntax

public sealed class NetSerializer

Constructors

NetSerializer()

Declaration

public NetSerializer()

NetSerializer(Int32)

Declaration

public NetSerializer(int maxStringLength)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-------------|
| System.Int32 | maxStringLength | |

Methods

Deserialize < T > (NetDataReader)

Reads packet with known type

Declaration

public T Deserialize<T>(NetDataReader reader)where T : class, new ()

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|---------------------------|
| NetDataReader | reader | NetDataReader with packet |

Returns

| ТҮРЕ | DESCRIPTION |
|------|--|
| Т | Returns packet if packet in reader is matched type |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТУРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

Deserialize<T>(NetDataReader, T)

Reads packet with known type (non alloc variant)

Declaration

```
public bool Deserialize<T>(NetDataReader reader, T target)where T : class, new ()
```

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|---------------------------|
| NetDataReader | reader | NetDataReader with packet |
| Т | target | Deserialization target |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | Returns true if packet in reader is matched type |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТУРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

Register<T>()

Declaration

|--|

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТҮРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

RegisterNestedType<T>()

Register nested property type

Declaration

```
public bool RegisterNestedType<T>()where T : struct, INetSerializable
```

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | True - if register successful, false - if type already registered |

Type Parameters

| NAME | DESCRIPTION | |
|------|----------------------------|--|
| Т | INetSerializable structure | |

RegisterNestedType<T>(Action<NetDataWriter, T>, Func<NetDataReader, T>)

Register nested property type

Declaration

public bool RegisterNestedType<T>(Action<NetDataWriter, T> writeDelegate, Func<NetDataReader, T> readDelegate)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--|---------------|-------------|
| System.Action < NetDataWriter, T> | writeDelegate | |
| System.Func <netdatareader, t=""></netdatareader,> | readDelegate | |

Returns

| ТУРЕ | DESCRIPTION | |
|----------------|---|--|
| System.Boolean | True - if register successful, false - if type already registered | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

RegisterNestedType<T>(Func<T>)

Register nested property type

Declaration

public bool RegisterNestedType<T>(Func<T> constructor)where T : class, INetSerializable

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------------|-------------|-------------|
| System.Func <t></t> | constructor | |

Returns

| ТҮРЕ | DESCRIPTION | |
|----------------|---|--|
| System.Boolean | True - if register successful, false - if type already registered | |

Type Parameters

| NAME | DESCRIPTION | |
|------|------------------------|--|
| Т | INetSerializable class | |

Serialize<T>(T)

Serialize struct to byte array

Declaration

public byte[] Serialize<T>(T obj)where T : class, new ()

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------|------|---------------------|
| Т | obj | Object to serialize |

Returns

| ТҮРЕ | DESCRIPTION | |
|---------------|---------------------------------|--|
| System.Byte[] | byte array with serialized data | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Serialize < T > (NetDataWriter, T)

Serialize struct to NetDataWriter (fast)

Declaration

public void Serialize<T>(NetDataWriter writer, T obj)where T : class, new ()

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|------------------------------------|
| NetDataWriter | writer | Serialization target NetDataWriter |
| Т | obj | Object to serialize |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

Exceptions

| ТҮРЕ | CONDITION |
|----------------------|---|
| InvalidTypeException | T's fields are not supported, or it has no fields |

Class ParseException

Inheritance

System.Object

System.Exception

ParseException

Implements

System.Runtime.Serialization.ISerializable

 $System. Runtime. Interop Services. \underline{-} Exception$

Inherited Members

System.Exception.GetBaseException()

System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext)

System.Exception.ToString()

System.Exception.GetType()

System.Exception.InnerException

System.Exception.HelpLink

System.Exception.HResult

System.Exception.Message

System.Exception.Source

System.Exception.StackTrace

System.Exception.TargetSite

System.Exception.Data

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LiteNetLib.Utils

Assembly: Assembly-CSharp.dll

Syntax

public class ParseException : Exception, ISerializable, _Exception

Constructors

ParseException()

Declaration

public ParseException()

ParseException(String)

Declaration

public ParseException(string message)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | message | |

ParseException(String, Exception)

Declaration

public ParseException(string message, Exception innerException)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------|----------------|-------------|
| System.String | message | |
| System.Exception | innerException | |

Implements

 $System. Runtime. Serialization. IS erializable \\ System. Runtime. Interop Services. _Exception$

Namespace TinyBirdNet

Classes

NetworkScenePostProcess

Used to run a method on the PostProcessScene.

RPCMethodInfo

A data storage class for RPC methods information.

TinyNetBehaviour

A TinyNetBehaviour is a MonoBehaviour who implements the interface ITinyNetObject.

In addition, TinyBirdNet handles it's spawning, serialization, RPC, and mostly anything you need to create a new instance of it in a multiplayer game and have it automatically synced.

TinyNetClient

Represents the Scene of a Client.

TinyNetConnection

A container for a connection to a NetPeer.

TinyNetGameManager

This class manages and communicates with

Tiny Net Game Manager Editor

Custom inspector for the TinyNetGameManager class.

TinyNetIdentity

Any UnityEngine.GameObject that contains this component, can be spawned accross the network.

This is basically a container for an "universal id" accross the network.

TinyNetLogLevel

A simple log filter level to use in debug logs.

TinyNetMessageHandlers

A class that represents a container for TinyNetMessageDelegate.

TinyNetPlayerController

This class represents the player entity in a network game, there can be multiple players per client, when there are multiple people playing on one machine.

The server has one TinyNetConnection per NetPeer.

TinyNetPropertyAccessor<T>

Creates an acessor for a property, used for TinyNetSyncVar.

TinyNetReflector

This class is used to get all TinyNetSyncVar properties and TinyNetRPC methods and store their info.

TinyNetRPC

When used on a method, allows it to be executed remotely on another machine when called.

TinyNetScene

Represents a Scene, which is all data required to reproduce the game state.

TinyNetServer

Represents the Scene of a server.

TinyNetSimpleMenu

TinyNetStateSyncer

This class stores all SyncVar allowed properties and is used to sync the game state.

TinyNetSyncVar

When used on a compatible property type, it will send it's value to all clients if they are changed.

byte, sbyte, short, ushort, int, uint, long, ulong, float, double, bool, string.

Interfaces

ITinyNetInstanceID

Implement this interface to allow your custom class to receive a NetworkID.

ITinyNetObject

Implements basic functionality to allow network syncing.

Enums

LogFilter

The available levels of filter.

RPCCallers

Identifies the caller of a RPC.

RPCTarget

Identifies the target of a RPC.

Delegates

RPCDelegate

Handles RPC calls

SpawnDelegate

Handles requests to spawn objects on the client

UnSpawnDelegate

Handles requests to unspawn objects on the client

Interface ITinyNetInstanceID

Implement this interface to allow your custom class to receive a NetworkID.

Namespace: TinyBirdNet
Assembly: Assembly-CSharp.dll

Syntax

public interface ITinyNetInstanceID

Properties

NetworkID

The ID of an instance in the network, given by the server on spawn.

Declaration

int NetworkID { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

ReceiveNetworkID(Int32)

Receives the network identifier.

Declaration

void ReceiveNetworkID(int newID)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|---------------------|
| System.Int32 | newID | The new identifier. |

Interface ITinyNetObject

Implements basic functionality to allow network syncing.

Inherited Members

ITinyNetInstanceID.NetworkID

ITinyNetInstanceID.ReceiveNetworkID(Int32)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

```
public interface ITinyNetObject : ITinyNetInstanceID
```

Properties

isClient

Gets a value indicating whether this instance is client.

Declaration

```
bool isClient { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is client; otherwise, false. |

is Server

Gets a value indicating whether this instance is server.

Declaration

```
bool isServer { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is server; otherwise, false. |

NetIdentity

Gets the net identity.

Declaration

```
TinyNetIdentity NetIdentity { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION | |
|------|-------------|--|
| | | |

| ТҮРЕ | DESCRIPTION | |
|-----------------|-------------------|--|
| TinyNetIdentity | The net identity. | |

Methods

GetNetworkChannel()

Declaration

DeliveryMethod GetNetworkChannel()

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| DeliveryMethod | |

InvokeRPC(Int32, NetDataReader)

Invokes the RPC.

Declaration

bool InvokeRPC(int rpcMethodIndex, NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------------|
| System.Int32 | rpcMethodIndex | Index of the RPC method. |
| NetDataReader | reader | The reader. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

OnGiveAuthority()

Called on the server when giving authority of this object to a client.

Declaration

void OnGiveAuthority()

OnNetworkCreate()

Always called, regardless of being a client or server. Called before variables are synced. (Order: 0)

Declaration

void OnNetworkCreate()

OnNetworkDestroy()

Called when the object receives an order to be destroyed from the network, in a listen server the object could just be unspawned without being actually destroyed.

Declaration

void OnNetworkDestroy()

OnRemoveAuthority()

Called on the server when removing authority of a client to this object.

Declaration

void OnRemoveAuthority()

On SetLocal Visibility (Boolean)

This is only called on a listen server, for spawn and hide messages. Objects being destroyed will trigger OnNetworkDestroy as normal.

Declaration

void OnSetLocalVisibility(bool vis)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|------|-------------|
| System.Boolean | vis | |

OnStartAuthority()

Called on the client that receives authority of this object.

Declaration

void OnStartAuthority()

OnStartClient()

Called on the client when the object is spawned. Called after variables are synced. (Order: 2)

Declaration

void OnStartClient()

OnStartLocalPlayer()

Not implemented yet.

Declaration

void OnStartLocalPlayer()

OnStartServer()

Called on the server when Spawn is called for this object. (Order: 1)

Declaration

void OnStartServer()

OnStopAuthority()

Called on the client that loses authorithy of this object.

Declaration

void OnStopAuthority()

SendRPC(NetDataWriter, String)

Sends the RPC.

Declaration

void SendRPC(NetDataWriter stream, string rpcName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|------------------|
| NetDataWriter | stream | The stream. |
| System.String | rpcName | Name of the RPC. |

TinyDeserialize(NetDataReader, Boolean)

Deserializations the data received.

Declaration

void TinyDeserialize(NetDataReader reader, bool firstStateUpdate)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------------------|---|
| NetDataReader | reader | The reader. |
| System.Boolean | firstStateUpdate | if set to true it's the first state update. |

TinyNetUpdate()

Called after all FixedUpdates and physics but before any Update.

It is used by TinyNetServer to check if it is time to send the current state to clients.

Declaration

void TinyNetUpdate()

TinySerialize(NetDataWriter, Boolean)

Serializates the data.

Declaration

void TinySerialize(NetDataWriter writer, bool firstStateUpdate)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|------------------|---|
| NetDataWriter | writer | The writer. |
| System.Boolean | firstStateUpdate | if set to true it's the first state update. |

Enum LogFilter

The available levels of filter.

Namespace: TinyBirdNet
Assembly: Assembly-CSharp.dll

Syntax

public enum LogFilter

Fields

| NAME | DESCRIPTION |
|-------|-------------|
| Debug | |
| Dev | |
| Error | |
| Info | |
| Warn | |

Class NetworkScenePostProcess

Used to run a method on the PostProcessScene.

Inheritance

System.Object

NetworkScenePostProcess

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp-Editor.dll

Syntax

public class NetworkScenePostProcess

Methods

OnPostProcessScene()

Called when [PostProcessScene].

Checks all scene objects.

Declaration

[PostProcessScene]

public static void OnPostProcessScene()

Enum RPCCallers

Identifies the caller of a RPC.

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public enum RPCCallers

Fields

| NAME | DESCRIPTION |
|-------------|-------------|
| Anyone | |
| ClientOwner | |
| Server | |

Delegate RPCDelegate

Handles RPC calls

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public delegate void RPCDelegate(NetDataReader reader);

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | The reader. |

Class RPCMethodInfo

A data storage class for RPC methods information.

Inheritance

System.Object

RPCMethodInfo

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class RPCMethodInfo

Constructors

RPCMethodInfo(String, RPCTarget, RPCCallers)

Declaration

public RPCMethodInfo(string rpcName, RPCTarget nTarget, RPCCallers nCaller)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | rpcName | |
| RPCTarget | nTarget | |
| RPCCallers | nCaller | |

Properties

caller

Declaration

```
public RPCCallers caller { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|------------|-------------|
| RPCCallers | |

name

Declaration

```
public string name { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

target

Declaration

public RPCTarget target { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|-----------|-------------|
| RPCTarget | |

Enum RPCTarget

Identifies the target of a RPC.

Namespace: TinyBirdNet
Assembly: Assembly-CSharp.dll

Syntax

public enum RPCTarget

Fields

| NAME | DESCRIPTION |
|-------------|-------------|
| ClientOwner | |
| Everyone | |
| Server | |

Delegate SpawnDelegate

Handles requests to spawn objects on the client

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public delegate GameObject SpawnDelegate(Vector3 position, int assetIndex);

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------------|------------|---------------------|
| UnityEngine.Vector3 | position | The position. |
| System.Int32 | assetIndex | Index of the asset. |

Returns

| ТУРЕ | DESCRIPTION |
|------------------------|-------------|
| UnityEngine.GameObject | |

Class TinyNetBehaviour

A TinyNetBehaviour is a MonoBehaviour who implements the interface ITinyNetObject.

In addition, TinyBirdNet handles it's spawning, serialization, RPC, and mostly anything you need to create a new instance of it in a multiplayer game and have it automatically synced.

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

TinyNetBehaviour

Implements

ITinyNetObject

ITinyNetInstanceID

Inherited Members

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.CancelInvoke()

UnityEngine.MonoBehaviour.CancelInvoke(System.String)

UnityEngine.MonoBehaviour.IsInvoking(System.String)

UnityEngine.MonoBehaviour.lsInvoking()

UnityEngine.MonoBehaviour.StartCoroutine(System.Collections.IEnumerator)

 $Unity Engine. Mono Behaviour. Start Coroutine_Auto (System. Collections. I Enumerator)$

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(UnityEngine.Coroutine)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

UnityEngine.MonoBehaviour.useGUILayout

UnityEngine.MonoBehaviour.runInEditMode

Unity Engine. Behaviour. enabled

UnityEngine.Behaviour.isActiveAndEnabled

UnityEngine.Component.GetComponent(System.Type)

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentInChildren(System.Type)

UnityEngine.Component.GetComponentInChildren<T>()

UnityEngine.Component.GetComponentInChildren<T>(System.Boolean)

Unity Engine. Component. Get Components In Children (System. Type)

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

Unity Engine. Component. Get Components In Children < T > (System. Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInChildren<T>()

UnityEngine.Component.GetComponentsInChildren<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentInParent(System.Type)

Unity Engine. Component. Get Component In Parent < T > ()

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Component.GetComponents(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

UnityEngine.Component.SendMessageUpwards(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object)

UnityEngine.Component.SendMessage(System.String)

UnityEngine.Component.SendMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object)

UnityEngine.Component.BroadcastMessage(System.String)

UnityEngine.Component.BroadcastMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Component.rigidbody

UnityEngine.Component.rigidbody2D

UnityEngine.Component.camera

UnityEngine.Component.light

UnityEngine.Component.animation

UnityEngine.Component.constantForce

UnityEngine.Component.renderer

UnityEngine.Component.audio

UnityEngine.Component.guiText

UnityEngine.Component.networkView

UnityEngine.Component.guiElement

UnityEngine.Component.guiTexture

UnityEngine.Component.collider

UnityEngine.Component.collider2D

UnityEngine.Component.hingeJoint

UnityEngine.Component.particleEmitter

UnityEngine.Component.particleSystem

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

Unity Engine. Object. Destroy Object (Unity Engine. Object, System. Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

```
[RequireComponent(typeof (TinyNetIdentity))]
public class TinyNetBehaviour : MonoBehaviour, ITinyNetObject, ITinyNetInstanceID
```

Fields

_lastSendTime

[Server Only] The last Time.time registered at an UpdateDirtyFlag call.

Declaration

```
protected float _lastSendTime
```

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

rpcRecycleWriter

A static NetDataWriter that can be used to convert most Objects to bytes.

Declaration

```
protected static NetDataWriter rpcRecycleWriter
```

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

Properties

blsDirty

Gets or sets a value indicating whether this instance is dirty.

Declaration

```
public bool bIsDirty { get; set; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if instance is dirty; otherwise, false. |

DirtyFlag

Gets the dirty flag.

Declaration

```
public BitArray DirtyFlag { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-----------------------------|-----------------|
| System.Collections.BitArray | The dirty flag. |

has Authority

Declaration

```
public bool hasAuthority { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

isClient

Gets a value indicating whether this instance is client.

Declaration

```
public bool isClient { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is client; otherwise, false. |

isServer

Gets a value indicating whether this instance is server.

Declaration

```
public bool isServer { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is server; otherwise, false. |

NetIdentity

Gets the net identity.

Declaration

```
public TinyNetIdentity NetIdentity { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|-----------------|-------------------|
| TinyNetIdentity | The net identity. |

NetworkID

The ID of an instance in the network, given by the server on spawn.

Declaration

```
public int NetworkID { get; protected set; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Methods

CheckIfPropertyUpdated(String, Type)

Checks if a TinyNetSyncVar property updated.

Declaration

```
public bool CheckIfPropertyUpdated(string propName, Type type)
```

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------|-----------------------|
| System.String | propName | Name of the property. |
| System.Type | type | The type. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

CreateAccessors()

Creates the TinyNetSyncVar property accessors.

Declaration

public void CreateAccessors()

GetNetworkChannel()

Declaration

public virtual DeliveryMethod GetNetworkChannel()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| DeliveryMethod | |

GetNetworkSendInterval()

Not implemented yet.

Declaration

public virtual float GetNetworkSendInterval()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

InvokeRPC(Int32, NetDataReader)

Invokes the RPC.

Declaration

public virtual bool InvokeRPC(int rpcMethodIndex, NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------------|
| System.Int32 | rpcMethodIndex | Index of the RPC method. |
| NetDataReader | reader | The reader. |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

OnGiveAuthority()

Called on the server when giving authority of this object to a client.

Declaration

public virtual void OnGiveAuthority()

OnNetworkCreate()

Remember that this is called first and before variables are synced.

Declaration

public virtual void OnNetworkCreate()

OnNetworkDestroy()

Called when the object receives an order to be destroyed from the network, in a listen server the object could just be unspawned without being actually destroyed.

Declaration

public virtual void OnNetworkDestroy()

OnRemoveAuthority()

Called on the server when removing authority of a client to this object.

Declaration

public virtual void OnRemoveAuthority()

On Set Local Visibility (Boolean)

This is only called on a listen server, for spawn and hide messages. Objects being destroyed will trigger OnNetworkDestroy as normal.

Declaration

public virtual void OnSetLocalVisibility(bool vis)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------|-------------|
| System.Boolean | vis | |

OnStartAuthority()

Called on the client that receives authority of this object.

Declaration

public virtual void OnStartAuthority()

OnStartClient()

Called on the client when the object is spawned. Called after variables are synced. (Order: 2)

Declaration

public virtual void OnStartClient()

OnStartLocalPlayer()

Declaration

public virtual void OnStartLocalPlayer()

OnStartServer()

Called on the server when Spawn is called for this object. (Order: 1)

Declaration

public virtual void OnStartServer()

OnStopAuthority()

Called on the client that loses authorithy of this object.

Declaration

public virtual void OnStopAuthority()

ReceiveNetworkID(Int32)

Receives the network identifier.

Declaration

public void ReceiveNetworkID(int newID)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-------|---------------------|
| System.Int32 | newID | The new identifier. |

RegisterRPCDelegate(RPCDelegate, String)

Registers the RPC delegate.

Declaration

protected void RegisterRPCDelegate(RPCDelegate rpcDel, string methodName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------------|---------------------|
| RPCDelegate | rpcDel | The RPC delegate. |
| System.String | methodName | Name of the method. |

SendRPC(NetDataWriter, String)

Sends the RPC.

Declaration

public virtual void SendRPC(NetDataWriter stream, string rpcName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|------------------|
| NetDataWriter | stream | The stream. |
| System.String | rpcName | Name of the RPC. |

SendRPC(NetDataWriter, RPCTarget, RPCCallers, Int32)

Sends the RPC.

Declaration

public virtual void SendRPC(NetDataWriter stream, RPCTarget target, RPCCallers caller, int rpcMethodIndex)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|--------------------------|
| NetDataWriter | stream | The stream. |
| RPCTarget | target | The target. |
| RPCCallers | caller | The caller. |
| System.Int32 | rpcMethodIndex | Index of the RPC method. |

SetDirtyFlag(Int32, Boolean)

Sets the bit value on the dirty flag at the given index

Determine on the anti-

Declaration

protected void SetDirtyFlag(int index, bool bValue)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|--------|---------------------|
| System.Int32 | index | The index. |
| System.Boolean | bValue | The new bool value. |

TinyDeserialize(NetDataReader, Boolean)

Deserializations the data received.

Declaration

public virtual void TinyDeserialize(NetDataReader reader, bool firstStateUpdate)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------------------|---|
| NetDataReader | reader | The reader. |
| System.Boolean | firstStateUpdate | if set to true it's the first state update. |

TinyNetUpdate()

Called after all FixedUpdates and physics but before any Update.

It is used by TinyNetServer to check if it is time to send the current state to clients.

Declaration

public void TinyNetUpdate()

TinySerialize(NetDataWriter, Boolean)

Serializates the data.

Declaration

public virtual void TinySerialize(NetDataWriter writer, bool firstStateUpdate)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | The writer. |

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|------------------|---|
| System.Boolean | firstStateUpdate | if set to true it's the first state update. |

Implements

ITinyNetObject
ITinyNetInstanceID

See Also
UnityEngine.MonoBehaviour
ITinyNetObject
ITinyNetInstanceID

Class TinyNetClient

Represents the Scene of a Client.

Inheritance

System.Object

TinyNetScene

TinyNetClient

Implements

INetEventListener

Inherited Members

TinyNetScene.createPlayerAction

TinyNetScene._localIdentityObjects

TinyNetScene._localNetObjects

TinyNetScene.recycleWriter

TinyNetScene.recycleMessageReader

TinyNetScene.s_TinyNetRPCMessage

TinyNetScene.s_TinyNetObjectHideMessage

 $Tiny Net Scene. s_Tiny Net Object Destroy Message$

 $TinyNetScene.s_TinyNetObjectSpawnMessage$

 $TinyNetScene.s_TinyNetObjectSpawnSceneMessage$

TinyNetScene.s_TineNetObjectSpawnFinishedMessage

 $TinyNetScene.s_TinyNetAddPlayerMessage$

TinyNetScene.s_TinyNetRemovePlayerMessage

 $TinyNetScene.s_TinyNetRequestAddPlayerMessage$

 $TinyNetScene.s_TinyNetRequestRemovePlayerMessage$

TinyNetScene.s_TinyNetClientAuthorityMessage

TinyNetScene._tinyMessageHandlers

TinyNetScene._tinyNetConns

TinyNetScene.tinyNetConns

Tiny Net Scene. conn To Host

TinyNetScene._netManager

Tiny Net Scene. current Fixed Frame

TinyNetScene.isRunning

Tiny Net Scene. is Connected

TinyNetScene.RegisterHandler(UInt16, TinyNetMessageDelegate)

TinyNetScene. Register Handler Safe (UInt 16, TinyNetMessage Delegate)

Tiny Net Scene. Internal Update ()

TinyNetScene.TinyNetUpdate()

TinyNetScene.ClearNetManager()

TinyNetScene.ConfigureNetManager(Boolean)

Tiny Net Scene. Toggle Nat Punching (Boolean)

TinyNetScene.SetPingInterval(Int32)

TinyNetScene.GetTinyNetConnection(Int64)

TinyNetScene.GetTinyNetConnection(NetPeer)

TinyNetScene. Remove TinyNetConnection (TinyNetConnection)

TinyNetScene.RemoveTinyNetConnection(NetPeer)

TinyNetScene.RemoveTinyNetConnection(Int64)

Tiny Net Scene. Add Tiny Net Identity To List (Tiny Net Identity)

TinyNetScene.AddTinyNetObjectToList(ITinyNetObject)

Tiny Net Scene. Remove Tiny Net Identity From List (Tiny Net Identity)

TinyNetScene.RemoveTinyNetObjectFromList(ITinyNetObject)

TinyNetScene.GetTinyNetIdentityByNetworkID(Int32)

TinyNetScene.GetTinyNetObjectByNetworkID(Int32)

TinyNetScene. Send Message By Channel To Host (IT in yNetMessage, Delivery Method)

TinyNetScene.SendMessageByChannelToTargetConnection(ITinyNetMessage, DeliveryMethod, TinyNetConnection)

TinyNetScene.SendMessageByChannelToAllConnections(ITinyNetMessage, DeliveryMethod)

TinyNetScene.SendMessageByChannelToAllReadyConnections(ITinyNetMessage, DeliveryMethod)

TinyNetScene.SendMessageByChannelToAllObserversOf(TinyNetIdentity, ITinyNetMessage, DeliveryMethod)

TinyNetScene.OnConnectionRequest(ConnectionRequest)

TinyNetScene.OnPeerConnected(NetPeer)

TinyNetScene.OnPeerDisconnected(NetPeer, DisconnectInfo)

TinyNetScene.OnNetworkError(NetEndPoint, Int32)

TinyNetScene.OnNetworkReceive(NetPeer, NetDataReader, DeliveryMethod)

TinyNetScene.OnNetworkReceiveUnconnected(NetEndPoint, NetDataReader, UnconnectedMessageType)

TinyNetScene.OnNetworkLatencyUpdate(NetPeer, Int32)

TinyNetScene.OnDiscoveryRequestReceived(NetEndPoint, NetDataReader)

TinyNetScene.OnDisconnect(TinyNetConnection)

TinyNetScene.OnRPCMessage(TinyNetMessageReader)

TinyNetScene.AddPlayerControllerToConnection(TinyNetConnection, Int32)

TinyNetScene.RemovePlayerControllerFromConnection(TinyNetConnection, Int16)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetClient : TinyNetScene, INetEventListener

Constructors

TinyNetClient()

Initializes a new instance of the TinyNetClient class.

Declaration

public TinyNetClient()

Fields

_localPlayers

The local players

Declaration

protected List<TinyNetPlayerController> _localPlayers

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.List <tinynetplayercontroller></tinynetplayercontroller> | |

instance

The singleton instance.

Declaration

```
public static TinyNetClient instance
```

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| TinyNetClient | |

On Client Ready Event

The client ready event.

Declaration

```
public static Action OnClientReadyEvent
```

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Action | |

Properties

bLoadedScene

Gets or sets a value indicating whether the scene has been loaded.

Declaration

```
public bool bLoadedScene { get; protected set; }
```

Property Value

| .1 | | |
|----|----------------|--|
| | ТҮРЕ | DESCRIPTION |
| | System.Boolean | true if scene has been loaded; otherwise, false. |

localPlayers

Gets the local players.

Declaration

```
public List<TinyNetPlayerController> localPlayers { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---|--------------------|
| System.Collections.Generic.List <tinynetplayercontroller></tinynetplayercontroller> | The local players. |

TYPE

Sugar for generating debug logs.

Declaration

```
public override string TYPE { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

TinyNetScene.TYPE

Methods

ClientConnectTo(String, Int32)

Attempts to connect the client to the given server.

Declaration

public virtual void ClientConnectTo(string hostAddress, int hostPort)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------------|-------------------|
| System.String | hostAddress | The host address. |
| System.Int32 | hostPort | The host port. |

ClientFinishLoadScene()

Called from the TinyNetGameManager when a scene finishes loading.

Declaration

```
public virtual void ClientFinishLoadScene()
```

CreatePlayerAndAdd(TinyNetConnection, Int32)

Creates a player controller and adds it to the connection.

Declaration

protected override void CreatePlayerAndAdd(TinyNetConnection conn, int playerControllerId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|--------------------|-----------------------------------|
| TinyNetConnection | conn | The connection. |
| System.Int32 | playerControllerId | The player controller identifier. |

Overrides

TinyNetScene. CreatePlayerAndAdd (TinyNetConnection, Int 32)

CreateTinyNetConnection(NetPeer)

Creates a TinyNetConnection

Declaration

protected override TinyNetConnection CreateTinyNetConnection(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|--------------|
| NetPeer | peer | The NetPeer. |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

Overrides

TinyNetScene.CreateTinyNetConnection(NetPeer)

On Add Player Message (Tiny Net Message Reader)

Called when an AddPlayerMessage is received.

Declaration

protected virtual void OnAddPlayerMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|--|
| TinyNetMessageReader | netMsg | A wrapper for a TinyNetAddPlayerMessage. |

On Client Change Scene Message (Tiny Net Message Reader)

Handler for a scene change message.

Declaration

protected virtual void OnClientChangeSceneMessage(TinyNetMessageReader netMsg)

| ТҮРЕ | NAME | DESCRIPTION | |
|----------------------|--------|---|--|
| TinyNetMessageReader | netMsg | A wrapper for a TinyNetStringMessage containing the scene name. | |

OnClientSceneChanged()

Called when a scene change finishes.

Declaration

public virtual void OnClientSceneChanged()

OnConnectionCreated(TinyNetConnection)

Called after a peer has connected and a TinyNetConnection was created for it.

Declaration

protected override void OnConnectionCreated(TinyNetConnection nConn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-------|-------------------------|
| TinyNetConnection | nConn | The connection created. |

Overrides

TinyNetScene. On Connection Created (TinyNetConnection)

OnLocalAddPlayerMessage(TinyNetMessageReader)

Called when an AddPlayerMessage is received and we are a Listen Server.

Declaration

protected virtual void OnLocalAddPlayerMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|--|
| TinyNetMessageReader | netMsg | A wrapper for a TinyNetAddPlayerMessage. |

On Remove Player Message (Tiny Net Message Reader)

Called when a TinyNetRemovePlayerMessage is received.

Declaration

protected virtual void OnRemovePlayerMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------|------|-------------|
| | | |

| ТҮРЕ | NAME | DESCRIPTION |
|----------------------|--------|---|
| TinyNetMessageReader | netMsg | A wrapper for a TinyNetRemovePlayerMessage. |

Ready()

Readies this instance.

Declaration

public virtual bool Ready()

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

RegisterMessageHandlers()

Registers the message handlers.

Declaration

protected override void RegisterMessageHandlers()

Overrides

Tiny Net Scene. Register Message Handlers ()

Request Add Player Controller To Server (Int 32)

Requests a new TinyNetPlayerController to the server.

Declaration

public void RequestAddPlayerControllerToServer(int amountPlayers = 1)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|---------------|----------------------------------|
| System.Int32 | amountPlayers | The amount of players to create. |

SendRPCToServer(NetDataWriter, Int32, ITinyNetObject)

Sends the RPC to server.

Declaration

public void SendRPCToServer(NetDataWriter stream, int rpcMethodIndex, ITinyNetObject iObj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | stream | The stream. |

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|----------------|------------------------------|
| System.Int32 | rpcMethodIndex | Index of the RPC method. |
| ITinyNetObject | iObj | The ITinyNetObject instance. |

StartClient()

Starts the client.

Declaration

public virtual bool StartClient()

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Implements

INetEventListener

See Also

TinyNetScene

Class TinyNetConnection

A container for a connection to a NetPeer.

Inheritance

System.Object

TinyNetConnection

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetConnection

Constructors

TinyNetConnection(NetPeer)

Initializes a new instance of the TinyNetConnection class.

Declaration

public TinyNetConnection(NetPeer newPeer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|---------|--------------|
| NetPeer | newPeer | The NetPeer. |

Fields

_observingNetObjects

This is a list of objects the connection is able to observe, aka, are spawned and synced.

Declaration

protected HashSet<TinyNetIdentity> _observingNetObjects

Field Value

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| System.Collections.Generic.HashSet < TinyNetIdentity > | |

_ownedObjectsId

A hash containing the NetworkIDs of objects owned by this connection.

Declaration

protected HashSet<int> _ownedObjectsId

Field Value

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.HashSet < System.Int32 > | |

_peer

The NetPeer of this connection.

Declaration

protected NetPeer _peer

Field Value

| ТУРЕ | DESCRIPTION |
|---------|-------------|
| NetPeer | |

is Ready

If this instance is ready

Declaration

public bool isReady

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

recycleWriter

If using this, always Reset before use!

Declaration

protected static NetDataWriter recycleWriter

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

Properties

ConnectId

Gets the connect identifier.

Declaration

public long ConnectId { get; }

| ТҮРЕ | DESCRIPTION |
|--------------|-------------------------|
| System.Int64 | The connect identifier. |

netPeer

Gets the NetPeer.

Declaration

```
public NetPeer netPeer { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------|--------------|
| NetPeer | The NetPeer. |

playerControllers

Gets the TinyNetPlayerController.

Declaration

```
public List<TinyNetPlayerController> playerControllers { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---|------------------------------|
| System.Collections.Generic.List <tinynetplayercontroller></tinynetplayercontroller> | The TinyNetPlayerController. |

Methods

AddOwnedObject(TinyNetIdentity)

Adds an object to the list of owned objects.

Declaration

```
public void AddOwnedObject(TinyNetIdentity obj)
```

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|------|---|
| TinyNetIdentity | obj | The TinyNetIdentity of the object to own. |

GetFirstPlayerController()

Gets the first player controller.

Useful if your game only have one player per connection.

Declaration

public TinyNetPlayerController GetFirstPlayerController()

Returns

| ТУРЕ | DESCRIPTION |
|-------------------------|-------------|
| TinyNetPlayerController | |

GetPlayerController(Int16)

 $Returns\ a\ TinyNetPlayerController,\ given\ an\ identifier.$

Declaration

public TinyNetPlayerController GetPlayerController(short playerControllerId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|--------------------|-----------------------------------|
| System.Int16 | playerControllerId | The player controller identifier. |

Returns

| ТУРЕ | DESCRIPTION |
|-------------------------|-------------|
| TinyNetPlayerController | |

GetPlayerController(Int16, out TinyNetPlayerController)

Outs a player controller, given an identifier. Returns true if one was found.

Declaration

public bool GetPlayerController(short playerControllerId, out TinyNetPlayerController playerController)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------------|--------------------|-----------------------------------|
| System.Int16 | playerControllerId | The player controller identifier. |
| TinyNetPlayerController | playerController | The player controller found. |

Returns

| ТУРЕ | DESCRIPTION | |
|----------------|--|--|
| System.Boolean | true if a player controller was found; otherwise, false. | |

GetPlayerController<T>(Int16)

Returns a player controller cast to the type given.

public T GetPlayerController<T>(short playerControllerId)where T : TinyNetPlayerController

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------------------|-----------------------------------|
| System.Int16 | playerControllerId | The player controller identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|------|--------------------------------|
| Т | A player controller cast to T. |

Type Parameters

| NAME | DESCRIPTION |
|------|--|
| Т | A type derived from TinyNetPlayerController. |

GetPlayerInputMessage(TinyNetMessageReader)

Redirects an TinyNetInputMessage to the correct player controller.

Declaration

public void GetPlayerInputMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|--------------------------|
| TinyNetMessageReader | netMsg | The TinyNetInputMessage. |

HideObjectToConnection(TinyNetIdentity, Boolean)

Always call this to hide an object from a client, or you will have sync issues.

Declaration

public void HideObjectToConnection(TinyNetIdentity tni, bool isDestroyed)

Parameters

| | ТҮРЕ | NAME | DESCRIPTION |
|--|-----------------|-------------|--|
| | TinyNetIdentity | tni | The TinyNetIdentity of the object to hide. |
| | System.Boolean | isDestroyed | |

IsObservingNetIdentity(TinyNetIdentity)

Determines whether this instance is observing the specified TinyNetIdentity.

Declaration

public bool IsObservingNetIdentity(TinyNetIdentity tni)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|------|----------------------|
| TinyNetIdentity | tni | The TinyNetIdentity. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if is observing the specified TinyNetIdentity; otherwise, false. |

RemoveOwnedObject(TinyNetIdentity)

Removes the owned object from the list.

Declaration

public void RemoveOwnedObject(TinyNetIdentity obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|------|--|
| TinyNetIdentity | obj | The TinyNetIdentity of the object to remove. |

RemovePlayerController(Int16)

Removes the player controller from this connection.

Declaration

public void RemovePlayerController(short playerControllerId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------------------|-----------------------------------|
| System.Int16 | playerControllerId | The player controller identifier. |

Send(NetDataWriter, DeliveryMethod)

Sends the specified data.

Declaration

public void Send(NetDataWriter dataWriter, DeliveryMethod options)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------------|------------------|
| NetDataWriter | dataWriter | The data writer. |
| DeliveryMethod | options | The options. |

Send(Byte[], DeliveryMethod)

Sends the specified data.

Declaration

public void Send(byte[] data, DeliveryMethod options)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|--------------|
| System.Byte[] | data | The data. |
| DeliveryMethod | options | The options. |

Send(ITinyNetMessage, DeliveryMethod)

Sends the specified ITinyNetMessage.

Declaration

public void Send(ITinyNetMessage msg, DeliveryMethod options)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|---------|--------------|
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | options | The options. |

SetPlayerController < T > (TinyNetPlayerController)

Adds a TinyNetPlayerController to the list of player controllers of this connection.

Declaration

public void SetPlayerController<T>(TinyNetPlayerController player)where T : TinyNetPlayerController, new ()

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------|------|-------------|
| | | |

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------------|--------|-------------------------------|
| TinyNetPlayerController | player | The player controller to add. |

Type Parameters

| NAME | DESCRIPTION |
|------|--|
| Т | A type derived from TinyNetPlayerController. |

ShowObjectToConnection (TinyNetIdentity)

Always call this to spawn an object to a client, or you will have sync issues.

Declaration

public void ShowObjectToConnection(TinyNetIdentity tni)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|------|---|
| TinyNetIdentity | tni | The TinyNetIdentity of the object to spawn. |

ToString()

Returns a System. String that represents this instance.

Declaration

public override string ToString()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|--|
| System.String | A System.String that represents this instance. |

Overrides

System.Object.ToString()

Class TinyNetGameManager

This class manages and communicates with

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

TinyNetGameManager

Inherited Members

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.CancelInvoke()

UnityEngine.MonoBehaviour.CancelInvoke(System.String)

UnityEngine.MonoBehaviour.IsInvoking(System.String)

UnityEngine.MonoBehaviour.lsInvoking()

UnityEngine.MonoBehaviour.StartCoroutine(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine Auto(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(UnityEngine.Coroutine)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

UnityEngine.MonoBehaviour.useGUILayout

UnityEngine.MonoBehaviour.runInEditMode

UnityEngine.Behaviour.enabled

UnityEngine.Behaviour.isActiveAndEnabled

UnityEngine.Component.GetComponent(System.Type)

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentInChildren(System.Type)

UnityEngine.Component.GetComponentInChildren<T>()

UnityEngine.Component.GetComponentInChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentsInChildren(System.Type)

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean)

Unity Engine. Component. Get Components In Children < T > (System. Boolean, System. Collections. Generic. List < T >)

UnityEngine.Component.GetComponentsInChildren<T>()

Unity Engine. Component. Get Components In Children < T> (System. Collections. Generic. List < T>)

UnityEngine.Component.GetComponentInParent(System.Type)

UnityEngine.Component.GetComponentInParent<T>()

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Component.GetComponents(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

UnityEngine.Component.SendMessageUpwards(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object)

UnityEngine.Component.SendMessage(System.String)

Unity Engine. Component. Send Message (System. String, Unity Engine. Send Message Options)

UnityEngine.Component.BroadcastMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object)

UnityEngine.Component.BroadcastMessage(System.String)

UnityEngine.Component.BroadcastMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Component.rigidbody

UnityEngine.Component.rigidbody2D

UnityEngine.Component.camera

UnityEngine.Component.light

UnityEngine.Component.animation

UnityEngine.Component.constantForce

UnityEngine.Component.renderer

UnityEngine.Component.audio

UnityEngine.Component.guiText

UnityEngine.Component.networkView

Unity Engine. Component. gui Element

UnityEngine.Component.guiTexture

UnityEngine.Component.collider

UnityEngine.Component.collider2D

UnityEngine.Component.hingeJoint

UnityEngine.Component.particleEmitter

UnityEngine.Component.particleSystem

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

Unity Engine. Object. Destroy Immediate (Unity Engine. Object, System. Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.FindObjectsOfType<T>()

Unity Engine. Object. Find Object Of Type < T > ()

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetGameManager : MonoBehaviour

Fields

_spawnHandlers

The spawn handlers.

int is the asset index in TinyBirdNet.TinyNetGameManager.registeredPrefabs.

Declaration

protected Dictionary<int, SpawnDelegate> _spawnHandlers

Field Value

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.Dictionary < System.Int32, SpawnDelegate > | |

_unspawnHandlers

The unspawn handlers.

int is the asset index in TinyBirdNet.TinyNetGameManager.registeredPrefabs.

Declaration

protected Dictionary<int, UnSpawnDelegate> _unspawnHandlers

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.Dictionary < System.Int32, UnSpawnDelegate > | |

ApplicationGUID

Declaration

public static readonly Guid ApplicationGUID

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------|-------------|
| System.Guid | |

Application GUIDS tring

Declaration

public static readonly string ApplicationGUIDString

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

client Manager

The client scene manager.

Declaration

protected TinyNetClient clientManager

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| TinyNetClient | |

current Log Filter

The current log filter for TinyLogger.

Declaration

public LogFilter currentLogFilter

Field Value

| ТҮРЕ | DESCRIPTION |
|-----------|-------------|
| LogFilter | |

instance

The singleton instance.

Declaration

public static TinyNetGameManager instance

| ТУРЕ | DESCRIPTION |
|--------------------|-------------|
| TinyNetGameManager | |

max Number Of Players

The maximum number of players allowed in the network.

Declaration

[SerializeField]
protected int maxNumberOfPlayers

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

multiplayer Connect Key

Insert here a unique key per version of your game, if the key mismatches the player will be denied connection.

Declaration

public string multiplayerConnectKey

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Network Every XFixed Frames

The network state update will happen every x fixed frames.

Declaration

[Range(1F, 60F)]
public int NetworkEveryXFixedFrames

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

networkSceneName

Current scene name at runtime.

Declaration

public static string networkSceneName

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

pingInterval

The ping interval in ms.

Declaration

protected int pingInterval

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

port

The port

Declaration

protected int port

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

serverManager

The server scene manager.

Declaration

protected TinyNetServer serverManager

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| TinyNetServer | |

Properties

$b \\ Nat \\ Punch \\ Enable \\ d$

Gets or sets a value indicating whether nat punch is enabled.

Needs custom implementation to work.

Declaration

public bool bNatPunchEnabled { get; protected set; }

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if nat punch is enabled; otherwise, false. |

isClient

Gets a value indicating whether this instance is client.

Declaration

```
public bool isClient { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is client; otherwise, false. |

isListenServer

Gets a value indicating whether this instance is a listen server.

Declaration

```
public bool isListenServer { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if this instance is a listen server; otherwise, false. |

isServer

Gets a value indicating whether this instance is server.

Declaration

```
public bool isServer { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance is server; otherwise, false. |

MaxNumberOfPlayers

Gets the maximum number of players.

Declaration

```
public int MaxNumberOfPlayers { get; }
```

| TYPE | DESCRIPTION |
|--------------|--------------------------------|
| System.Int32 | The maximum number of players. |

NextNetworkID

Gets the next network identifier.

Declaration

```
public int NextNetworkID { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|------------------------------|
| System.Int32 | The next network identifier. |

NextPlayerID

Gets the next player identifier.

Declaration

```
public int NextPlayerID { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-----------------------------|
| System.Int32 | The next player identifier. |

PingInterval

Gets or sets the ping interval.

Declaration

```
public int PingInterval { get; set; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|--------------------|
| System.Int32 | The ping interval. |

Port

Gets the port.

Declaration

```
public int Port { get; }
```

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | The port. |

Methods

AwakeVirtual()

Provides a function to be overrrided in case you need to add something in the Awake call.

Declaration

protected virtual void AwakeVirtual()

CheckForSceneLoad()

Checks if a scene load was requested and if it finished.

Declaration

protected virtual void CheckForSceneLoad()

ClearNetManager()

Clears the net manager.

Declaration

protected virtual void ClearNetManager()

ClientChangeScene(String, Boolean)

Orders the client to change to the given scene.

Declaration

public virtual void ClientChangeScene(string newSceneName, bool forceReload)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|--------------|-------------------------------|
| System.String | newSceneName | Name of the new scene. |
| System.Boolean | forceReload | if set to true, force reload. |

ClientConnectTo(String, Int32)

Attempts to connect to the target server, StartClient() must have been called before.

Declaration

public virtual void ClientConnectTo(string hostAddress, int hostPort)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------------|--|
| System.String | hostAddress | An IPv4 or IPv6 string containing the address of the server. |
| System.Int32 | hostPort | An int representing the port to use for the connection. |

FinishLoadScene()

Called when a scene has finished loading.

Declaration

public virtual void FinishLoadScene()

${\tt GetAmountOfRegisteredAssets()}$

Gets the amount of registered assets.

Declaration

public int GetAmountOfRegisteredAssets()

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetAssetGUIDFromAssetId(Int32)

Gets the asset unique identifier from an asset identifier.

Declaration

public string GetAssetGUIDFromAssetId(int assetId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-----------------------|
| System.Int32 | assetId | The asset identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

${\sf GetAssetIdFromAssetGUID(String)}$

Gets the asset identifier from an asset unique identifier.

The GUID is provided by Unity, the id is generated by TinyBirdNet for easier network handling.

Declaration

public int GetAssetIdFromAssetGUID(string assetGUID)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-----------|------------------------------|
| System.String | assetGUID | The asset unique identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

${\sf GetAssetIdFromPrefab}({\sf GameObject})$

Gets the asset identifier from a prefab.

Declaration

public int GetAssetIdFromPrefab(GameObject prefab)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|--------|-------------|
| UnityEngine.GameObject | prefab | The prefab. |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

${\sf GetPrefabFromAssetGUID}({\sf String})$

Gets the prefab from an asset unique identifier.

Declaration

public GameObject GetPrefabFromAssetGUID(string assetGUID)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-----------|------------------------------|
| System.String | assetGUID | The asset unique identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|------------------------|-------------|
| UnityEngine.GameObject | |

GetPrefabFromAssetId(Int32)

Gets the prefab from an asset identifier.

Declaration

public GameObject GetPrefabFromAssetId(int assetId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-----------------------|
| System.Int32 | assetId | The asset identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|------------------------|-------------|
| UnityEngine.GameObject | |

GetSpawnHandler(Int32, out SpawnDelegate)

Gets the spawn handler of an asset.

Declaration

public bool GetSpawnHandler(int assetIndex, out SpawnDelegate handler)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------------|---------------------|
| System.Int32 | assetIndex | Index of the asset. |
| SpawnDelegate | handler | The handler. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

GetSpawnHandler(String, out SpawnDelegate)

Gets the spawn handler of an asset.

Declaration

public bool GetSpawnHandler(string assetGUID, out SpawnDelegate handler)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-----------|------------------------------|
| System.String | assetGUID | The asset unique identifier. |
| | | |

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|--------------|
| SpawnDelegate | handler | The handler. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

InvokeUnSpawnHandler(Int32, GameObject)

Invokes the unspawn handler of an asset.

Declaration

public bool InvokeUnSpawnHandler(int assetIndex, GameObject obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|------------|---------------------|
| System.Int32 | assetIndex | Index of the asset. |
| UnityEngine.GameObject | obj | The object. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

InvokeUnSpawnHandler(String, GameObject)

Invokes the unspawn handler of an asset.

Declaration

public bool InvokeUnSpawnHandler(string assetGUID, GameObject obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|-----------|------------------------------|
| System.String | assetGUID | The asset unique identifier. |
| UnityEngine.GameObject | obj | The object. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

OnClientConnectToServer(TinyNetConnection)

Called when a client connect to the server.

Currently not implemented!

Declaration

public void OnClientConnectToServer(TinyNetConnection conn)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|------|-----------------|
| TinyNetConnection | conn | The connection. |

RebuildAllRegisteredPrefabs(GameObject[])

Receives a new list of registered prefabs from the custom Editor.

Declaration

public void RebuildAllRegisteredPrefabs(GameObject[] newArray)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------------|----------|-------------|
| UnityEngine.GameObject[] | newArray | |

Register Message Handlers Client ()

Registers message handlers for the client.

Declaration

public virtual void RegisterMessageHandlersClient()

RegisterMessageHandlersServer()

Registers message handlers for the server.

Declaration

public virtual void RegisterMessageHandlersServer()

RegisterSpawnHandler(Int32, SpawnDelegate, UnSpawnDelegate)

Registers a spawn handler.

Declaration

public void RegisterSpawnHandler(int assetIndex, SpawnDelegate spawnHandler, UnSpawnDelegate unspawnHandler)

| ТҮРЕ | NAME | DESCRIPTION | |
|-----------------|----------------|----------------------|--|
| System.Int32 | assetIndex | Id of the asset. | |
| SpawnDelegate | spawn Handler | The spawn handler. | |
| UnSpawnDelegate | unspawnHandler | The unspawn handler. | |

ServerChangeScene(String)

Orders the server to change to the given scene.

Declaration

public virtual void ServerChangeScene(string newSceneName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------------|-------------------------------------|
| System.String | newSceneName | The name of the scene to change to. |

SetMaxNumberOfPlayers(Int32)

Changes the current max amount of players, this only has an effect before starting a Server.

Declaration

public virtual void SetMaxNumberOfPlayers(int newNumber)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------|-----------------|
| System.Int32 | newNumber | The new number. |

SetPort(Int32)

Changes the port that will be used for hosting, this only has an effect before starting a Server.

Declaration

public virtual void SetPort(int newPort)

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|---------|---------------|
| System.Int32 | newPort | The new port. |

StartClient()

Prepares this game to work as a client.

Declaration

public virtual void StartClient()

StartServer()

Prepares this game to work as a server.

Declaration

public virtual void StartServer()

StartVirtual()

Provides a function to be overrrided in case you need to add something in the Start call.

Declaration

protected virtual void StartVirtual()

ToggleNatPunching(Boolean)

Toggles the nat punching.

Declaration

public virtual void ToggleNatPunching(bool bNewState)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-----------|-------------------------------|
| System.Boolean | bNewState | if set to true [b new state]. |

UnregisterSpawnHandler(Int32)

Unregisters a spawn handler.

Declaration

public void UnregisterSpawnHandler(int assetIndex)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------------|------------------|
| System.Int32 | assetIndex | Id of the asset. |

UpdateVirtual()

Provides a function to be overrrided in case you need to add something in the Update call.

Declaration

protected virtual void UpdateVirtual()

See Also

UnityEngine.MonoBehaviour

Class TinyNetGameManagerEditor

Custom inspector for the TinyNetGameManager class.

Inheritance

System.Object

UnityEngine.Object

UnityEngine.ScriptableObject

UnityEditor.Editor

TinyNetGameManagerEditor

Inherited Members

UnityEditor.Editor.CreateEditorWithContext(UnityEngine.Object[], UnityEngine.Object, System.Type)

UnityEditor.Editor.CreateEditorWithContext(UnityEngine.Object[], UnityEngine.Object)

UnityEditor.Editor.CreateCachedEditorWithContext(UnityEngine.Object, UnityEngine.Object, System.Type, UnityEditor.Editor)

UnityEditor.Editor.CreateCachedEditorWithContext(UnityEngine.Object[], UnityEngine.Object, System.Type, UnityEditor.Editor)

UnityEditor.Editor.CreateCachedEditor(UnityEngine.Object, System.Type, UnityEditor.Editor)

UnityEditor.Editor.CreateCachedEditor(UnityEngine.Object[], System.Type, UnityEditor.Editor)

UnityEditor.Editor.CreateEditor(UnityEngine.Object)

UnityEditor.Editor.CreateEditor(UnityEngine.Object, System.Type)

UnityEditor.Editor.CreateEditor(UnityEngine.Object[])

UnityEditor.Editor.CreateEditor(UnityEngine.Object[], System.Type)

UnityEditor.Editor.DrawPropertiesExcluding(UnityEditor.SerializedObject, System.String[])

UnityEditor.Editor.DrawDefaultInspector()

UnityEditor.Editor.RequiresConstantRepaint()

UnityEditor.Editor.Repaint()

UnityEditor.Editor.HasPreviewGUI()

UnityEditor.Editor.GetPreviewTitle()

Unity Editor. Editor. Render Static Preview (System. String, Unity Engine. Object [], System. Int 32, System. Int 32)

UnityEditor.Editor.OnPreviewGUI(UnityEngine.Rect, UnityEngine.GUIStyle)

Unity Editor. Editor. On Interactive Preview GUI (Unity Engine. Rect, Unity Engine. GUIStyle)

UnityEditor.Editor.OnPreviewSettings()

UnityEditor.Editor.GetInfoString()

UnityEditor.Editor.ReloadPreviewInstances()

UnityEditor.Editor.DrawHeader()

UnityEditor.Editor.OnHeaderGUI()

UnityEditor.Editor.DrawPreview(UnityEngine.Rect)

UnityEditor.Editor.UseDefaultMargins()

UnityEditor.Editor.Initialize(UnityEngine.Object[])

UnityEditor.Editor.MoveNextTarget()

UnityEditor.Editor.ResetTarget()

UnityEditor.Editor.target

UnityEditor.Editor.targets

UnityEditor.Editor.serializedObject

UnityEngine.ScriptableObject.SetDirty()

UnityEngine.ScriptableObject.CreateInstance(System.String)

UnityEngine.ScriptableObject.CreateInstance(System.Type)

UnityEngine.ScriptableObject.CreateInstance<T>()

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

Unity Engine. Object. Destroy Immediate (Unity Engine. Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate < T > (T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp-Editor.dll

Syntax

```
[CustomEditor(typeof (TinyNetGameManager), true)]
public class TinyNetGameManagerEditor : Editor, IPreviewable, IToolModeOwner
```

Methods

OnInspectorGUI()

Declaration

```
public override void OnInspectorGUI()
```

Overrides

UnityEditor.Editor.OnInspectorGUI()

See Also

UnityEditor.Editor

Class TinyNetIdentity

Any UnityEngine.GameObject that contains this component, can be spawned accross the network.

This is basically a container for an "universal id" accross the network.

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

TinyNetIdentity

Implements

ITinyNetInstanceID

Inherited Members

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.CancelInvoke()

UnityEngine.MonoBehaviour.CancelInvoke(System.String)

UnityEngine.MonoBehaviour.IsInvoking(System.String)

UnityEngine.MonoBehaviour.lsInvoking()

UnityEngine.MonoBehaviour.StartCoroutine(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine_Auto(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.IEnumerator)

Unity Engine. Mono Behaviour. Stop Coroutine (Unity Engine. Coroutine)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

UnityEngine.MonoBehaviour.useGUILayout

UnityEngine.MonoBehaviour.runInEditMode

UnityEngine.Behaviour.enabled

UnityEngine.Behaviour.isActiveAndEnabled

Unity Engine. Component. Get Component (System. Type)

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentlnChildren(System.Type)

UnityEngine.Component.GetComponentInChildren<T>()

UnityEngine.Component.GetComponentInChildren<T>(System.Boolean)

Unity Engine. Component. Get Components In Children (System. Type)

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInChildren<T>()

UnityEngine.Component.GetComponentsInChildren<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentInParent(System.Type)

UnityEngine.Component.GetComponentInParent<T>()

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Components(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

UnityEngine.Component.SendMessageUpwards(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object)

UnityEngine.Component.SendMessage(System.String)

UnityEngine.Component.SendMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object)

UnityEngine.Component.BroadcastMessage(System.String)

UnityEngine.Component.BroadcastMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Component.rigidbody

UnityEngine.Component.rigidbody2D

UnityEngine.Component.camera

UnityEngine.Component.light

UnityEngine.Component.animation

UnityEngine.Component.constantForce

UnityEngine.Component.renderer

UnityEngine.Component.audio

UnityEngine.Component.guiText

UnityEngine.Component.networkView

UnityEngine.Component.guiElement

Unity Engine. Component. gui Texture

UnityEngine.Component.collider

UnityEngine.Component.collider2D

UnityEngine.Component.hingeJoint

UnityEngine.Component.particleEmitter

UnityEngine.Component.particleSystem

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

Unity Engine. Object. Find Scene Objects Of Type (System. Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

Unity Engine. Object. Find Objects Of Type All (System. Type)

UnityEngine.Object.ToString()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

[ExecuteInEditMode]

[DisallowMultipleComponent]

[AddComponentMenu("TinyBirdNet/TinyNetIdentity")]

public class TinyNetIdentity : MonoBehaviour, ITinyNetInstanceID

Fields

bStartClientTwiceTest

Used as a stopgag in case this object has tried to be initialized twice.

Declaration

protected bool bStartClientTwiceTest

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Properties

assetGUID

Gets the asset unique identifier.

Declaration

public string assetGUID { get; }

| ТҮРЕ | DESCRIPTION |
|---------------|------------------------------|
| System.String | The asset unique identifier. |

connection To Owner Client

[Server Only] Gets the connection to owner client.

Declaration

```
public TinyNetConnection connectionToOwnerClient { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------------|---------------------------------|
| TinyNetConnection | The connection to owner client. |

hasAuthority

Gets a value indicating whether this instance has authority.

Declaration

```
public bool hasAuthority { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|--|
| System.Boolean | true if this instance has authority; otherwise, false. |

isClient

Declaration

```
public bool isClient { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

isServer

Declaration

```
public bool isServer { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

NetworkID

The ID of an instance in the network, given by the server on spawn.

Declaration

| blic int NetworkID { get; protected set; } |
|--|
|--|

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

sceneID

Gets the object scene identifier.

Declaration

```
public int sceneID { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|------------------------------|
| System.Int32 | The object scene identifier. |

ServerOnly

Gets a value indicating whether this object only exists on the server.

Declaration

```
public bool ServerOnly { get; }
```

Property Value

| ТУРЕ | DESCRIPTION | |
|----------------|--|--|
| System.Boolean | true if server only; otherwise, false. | |

Methods

Assign Client Authority (Tiny Net Connection)

[Server only] Assigns the client authority.

Declaration

```
public bool AssignClientAuthority(TinyNetConnection conn)
```

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|------|-----------------|
| TinyNetConnection | conn | The connection. |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

DeserializeAllTinyNetObjects(NetDataReader, Boolean)

Deserializes all ITinyNetObject data.

Declaration

public void DeserializeAllTinyNetObjects(NetDataReader reader, bool bInitialState)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------------|-----------------------------------|
| NetDataReader | reader | The reader. |
| System.Boolean | bInitialState | if set to true [b initial state]. |

ForceAuthority(Boolean)

Forces the authority setting.

Declaration

public void ForceAuthority(bool authority)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-----------|--|
| System.Boolean | authority | if set to true it will have authority. |

ForceSceneId(Int32)

Forces the scene identifier. Only used when fixing duplicate scene IDs duing post-processing

Declaration

public void ForceSceneId(int newSceneId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------------|---------------------------|
| System.Int32 | newSceneId | The new scene identifier. |

OnGiveAuthority()

Called when [give authority].

Declaration

public virtual void OnGiveAuthority()

OnNetworkCreate()

Called when this object is created.

Declaration

public virtual void OnNetworkCreate()

OnNetworkDestroy()

Called when destroyed by the network.

Declaration

public virtual void OnNetworkDestroy()

OnRemoveAuthority()

Called when [remove authority].

Declaration

public virtual void OnRemoveAuthority()

On SetLocal Visibility (Boolean)

Called when [set local visibility].

Declaration

public virtual void OnSetLocalVisibility(bool vis)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|------|-----------------------|
| System.Boolean | vis | if set to true [vis]. |

OnStartAuthority()

Called when [start authority].

Declaration

public virtual void OnStartAuthority()

OnStartClient()

Called when an object is spawned on the client.

Declaration

public void OnStartClient()

OnStartLocalPlayer()

Called when [start local player].

Declaration

public virtual void OnStartLocalPlayer()

OnStartServer(Boolean)

Called when an object is spawned on the server.

Declaration

public void OnStartServer(bool allowNonZeroNetId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------------------|---|
| System.Boolean | allowNonZeroNetId | If the object already have a NetworkId, it was probably recycled. |

OnStopAuthority()

Called when [stop authority].

Declaration

public virtual void OnStopAuthority()

ReceiveNetworkID(Int32)

Receives the network identifier.

Declaration

public void ReceiveNetworkID(int newID)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-------|---------------------|
| System.Int32 | newID | The new identifier. |

Remove Client Authority (Tiny Net Connection)

[Server only] Removes the client authority.

Not implemmented yet.

Declaration

public bool RemoveClientAuthority(TinyNetConnection conn)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|------|-----------------|
| TinyNetConnection | conn | The connection. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Serialize All Tiny Net Objects (Net Data Writer)

Called on the server to serialize all ITinyNetObject attached to this prefab.

Declaration

public void SerializeAllTinyNetObjects(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

SetConnectionToClient(TinyNetConnection, Int16)

Used by the server to have a shortcut in the case a client owns this object.

Not implemmented yet.

Declaration

public void SetConnectionToClient(TinyNetConnection conn, short newPlayerControllerId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|-----------------------|---|
| TinyNetConnection | conn | The connection that owns this object. |
| System.Int16 | newPlayerControllerId | The player controller identifier that owns this object. |

SetDynamicAssetGUID(String)

Sets the asset unique identifier during play.

Declaration

public void SetDynamicAssetGUID(string newAssetGUID)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------------|----------------------------------|
| System.String | newAssetGUID | The new asset unique identifier. |

Implements

ITinyNetInstanceID

See Also

UnityEngine.MonoBehaviour



Class TinyNetLogLevel

A simple log filter level to use in debug logs.

Inheritance

System.Object

TinyNetLogLevel

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetLogLevel

Fields

currentLevel

Declaration

public static LogFilter currentLevel

Field Value

| ТҮРЕ | DESCRIPTION |
|-----------|-------------|
| LogFilter | |

Properties

logDebug

Declaration

public static bool logDebug { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

logDev

Declaration

public static bool logDev { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

logError

Declaration

```
public static bool logError { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

logInfo

Declaration

```
public static bool logInfo { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

log Warn

Declaration

```
public static bool logWarn { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Class TinyNetMessageHandlers

A class that represents a container for TinyNetMessageDelegate.

Inheritance

System.Object

Tiny Net Message Handlers

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System. Object. Reference Equals (System. Object, System. Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetMessageHandlers

Methods

Contains(UInt16)

Determines whether this instance contains a handler for the specified ITinyNetMessage type.

Declaration

public bool Contains(ushort msgType)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|------------------------------|
| System.UInt16 | msgType | Type of the ITinyNetMessage. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if it contains a handler for it; otherwise, false. |

RegisterHandler(UInt16, TinyNetMessageDelegate)

Registers a handler for a message, it will not check for conflicts, but cannot be used for system messages.

Declaration

public void RegisterHandler(ushort msgType, TinyNetMessageDelegate handler)

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|---------|------------------------------|
| System.UInt16 | msgType | Type of the ITinyNetMessage. |
| TinyNetMessageDelegate | handler | The delegate. |

Unregister Handler (UInt 16)

Unregisters a handler.

Declaration

public void UnregisterHandler(ushort msgType)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|------------------------------|
| System.UInt16 | msgType | Type of the ITinyNetMessage. |

Class TinyNetPlayerController

This class represents the player entity in a network game, there can be multiple players per client, when there are multiple people playing on one machine.

The server has one TinyNetConnection per NetPeer.

Inheritance

System.Object

TinyNetPlayerController

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetPlayerController

Constructors

TinyNetPlayerController()

Initializes a new instance of the TinyNetPlayerController class.

Declaration

public TinyNetPlayerController()

TinyNetPlayerController(Int16, TinyNetConnection)

Initializes a new instance of the TinyNetPlayerController class.

Declaration

public TinyNetPlayerController(short playerControllerId, TinyNetConnection nConn)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|--------------------|-----------------------------------|
| System.Int16 | playerControllerId | The player controller identifier. |
| TinyNetConnection | nConn | The TinyNetConnection. |

Fields

conn

Holds a reference to the client connection on the server, and to the server connection on the client.

In a Listen Server this will only hold a reference to the client connection.

Declaration

protected TinyNetConnection conn

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

inputWriter

A stream used for input.

Declaration

protected static NetDataWriter inputWriter

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

playerControllerId

The player controller identifier

Declaration

public short playerControllerId

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

Conn

Gets or sets the connection.

Declaration

public virtual TinyNetConnection Conn { get; set; }

Property Value

| TYPE | DESCRIPTION |
|-------------------|-----------------|
| | |
| TinyNetConnection | The connection. |

IsValid

Returns true if this instance is valid.

Declaration

public bool IsValid { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if this instance is valid; otherwise, false. |

Methods

GetInputMessage(TinyNetMessageReader)

Receives an input message

Declaration

public virtual void GetInputMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|---------------------|
| TinyNetMessageReader | netMsg | The message reader. |

ToString()

Returns a System. String that represents this instance.

Declaration

public override string ToString()

Returns

| ТУРЕ | DESCRIPTION |
|---------------|--|
| System.String | A System.String that represents this instance. |

Overrides

System.Object.ToString()

Class TinyNetPropertyAccessor<T>

Creates an acessor for a property, used for TinyNetSyncVar.

Inheritance

System.Object

TinyNetPropertyAccessor<T>

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System. Object. Reference Equals (System. Object, System. Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetPropertyAccessor<T>

Type Parameters

| NAME | DESCRIPTION |
|------|-----------------------------------|
| Т | The System.Type of this property. |

Constructors

TinyNetPropertyAccessor(Object, String)

Initializes a new instance of the TinyNetPropertyAccessor<T> class.

Declaration

public TinyNetPropertyAccessor(object obj, string newPropName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-------------|------------------------------------|
| System.Object | obj | The object that owns the property. |
| System.String | newPropName | New name of the property. |

Methods

CheckIfChangedAndUpdate(Object)

Checks if the value has changed and then updates the TinyBirdNet.TinyNetPropertyAccessor`1.previousValue.

Declaration

public bool CheckIfChangedAndUpdate(object obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | The object. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|---|
| System.Boolean | true if this property value has changed since the last time it was checked; otherwise, false. |

Get(Object)

Gets the property value.

Declaration

public T Get(object obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | The object. |

Returns

| ТҮРЕ | DESCRIPTION |
|------|---------------------|
| Т | The property value. |

Set(Object, T)

Sets the property value.

Declaration

public void Set(object obj, T value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.Object | obj | The object. |
| Т | value | The value. |

UpdateValue(Object)

Updates the TinyBirdNet.TinyNetPropertyAccessor`1.previousValue.

Declaration

public void UpdateValue(object obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | The object. |

WasChanged(Object)

Checks if the property value has changed.

Declaration

public bool WasChanged(object obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Object | obj | The object. |

Returns

| Returns | |
|----------------|---|
| TYPE | DESCRIPTION |
| System.Boolean | true if this property value has changed since the last time it was checked; otherwise, False. |

Class TinyNetReflector

This class is used to get all TinyNetSyncVar properties and TinyNetRPC methods and store their info.

Inheritance

System.Object

TinyNetReflector

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public static class TinyNetReflector

Methods

GetAllClassesAndChildsOf<T>()

Gets all classes and childs of the given class.

Declaration

 $public \ static \ List< Type> \ GetAllClasses And Childs Of < T>() where \ T \ : \ class$

Returns

| ТУРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.List <system.type></system.type> | |

Type Parameters

| NAME | DESCRIPTION |
|------|-------------|
| Т | |

GetAllSyncVarProps()

Does the reflection process.

Declaration

public static void GetAllSyncVarProps()

Class TinyNetRPC

When used on a method, allows it to be executed remotely on another machine when called.

Inheritance

System.Object

System.Attribute

TinyNetRPC

Implements

System.Runtime.InteropServices._Attribute

Inherited Members

 $System. Attribute. System. Runtime. Interop Services._Attribute. Get IDs Of Names (System. Guid, System. Int Ptr, System. UInt 32, System. System. System. System. Guid, System. System. System. Guid, System. System. Guid, Sys$

System.UInt32, System.IntPtr)

System.Attribute.System.Runtime.InteropServices._Attribute.GetTypeInfo(System.UInt32, System.UInt32, System.IntPtr)

System.Attribute.System.Runtime.InteropServices._Attribute.GetTypeInfoCount(System.UInt32)

System.Attribute.System.Runtime.InteropServices._Attribute.Invoke(System.UInt32, System.Guid, System.UInt32, System.Int16,

System.IntPtr, System.IntPtr, System.IntPtr, System.IntPtr)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Assembly, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System. Attribute. Get Hash Code ()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.Equals(System.Object)

System.Attribute.TypeId

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

```
[AttributeUsage(AttributeTargets.Method, AllowMultiple = false, Inherited = true)]
public class TinyNetRPC : Attribute, _Attribute
```

Constructors

TinyNetRPC(RPCTarget, RPCCallers)

Declaration

```
public TinyNetRPC(RPCTarget newTargets, RPCCallers newCallers)
```

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------|------------|-------------|
| RPCTarget | newTargets | |
| RPCCallers | newCallers | |

Properties

Callers

Declaration

```
public RPCCallers Callers { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|------------|-------------|
| RPCCallers | |

SendOption

Declaration

```
public DeliveryMethod SendOption { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| DeliveryMethod | |

Targets

public RPCTarget Targets { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|-----------|-------------|
| RPCTarget | |

Implements

 $System. Runtime. Interop Services._Attribute$

See Also

System.Attribute

Class TinyNetScene

Represents a Scene, which is all data required to reproduce the game state.

Inheritance

System.Object

TinyNetScene

TinyNetClient

TinyNetServer

Implements

INetEventListener

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public abstract class TinyNetScene : INetEventListener

Constructors

TinyNetScene()

Initializes a new instance of the TinyNetScene class.

Declaration

public TinyNetScene()

Fields

_localIdentityObjects

int is the NetworkID of the TinyNetIdentity object.

Declaration

protected static Dictionary<int, TinyNetIdentity> _localIdentityObjects

Field Value

| ТУРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.Dictionary < System.Int32, TinyNetIdentity > | |

_localNetObjects

int is the NetworkID of the ITinyNetObject object.

Declaration

protected static Dictionary<int, ITinyNetObject> _localNetObjects

Field Value

| ТҮРЕ | DESCRIPTION |
|--|-------------|
| System.Collections.Generic.Dictionary < System.Int32, ITinyNetObject > | |

_netManager

The NetManager.

Declaration

protected NetManager _netManager

Field Value

| ТҮРЕ | DESCRIPTION |
|------------|-------------|
| NetManager | |

$_tiny Message Handlers$

The ITinyNetMessage handlers.

Declaration

protected TinyNetMessageHandlers _tinyMessageHandlers

Field Value

| T | УРЕ | DESCRIPTION |
|----|--------------------------|-------------|
| Ti | iny Net Message Handlers | |

_tinyNetConns

All connections to this scene.

Declaration

protected List<TinyNetConnection> _tinyNetConns

Field Value

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.List <tinynetconnection></tinynetconnection> | |

createPlayerAction

If set, overrides the CreatePlayerAndAdd(TinyNetConnection, Int32) implementation.

Declaration

public static Action<TinyNetConnection, int> createPlayerAction

Field Value

| ТУРЕ | DESCRIPTION |
|--|-------------|
| System.Action < Tiny NetConnection, System.Int32 > | |

$current \\ Fixed \\ Frame$

The current fixed frame, used for calculation the network state update frequency.

Declaration

protected int currentFixedFrame

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

recycleMessageReader

A message reader used to prevent garbage collection.

Declaration

protected static TinyNetMessageReader recycleMessageReader

Field Value

| ТУРЕ | DESCRIPTION |
|----------------------|-------------|
| TinyNetMessageReader | |

recycleWriter

If using this, always Reset before use!

Declaration

protected static NetDataWriter recycleWriter

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataWriter | |

$s_Tine Net Object Spawn Finished Message \\$

Declaration

 $protected\ static\ TinyNetObjectSpawnFinishedMessage\ s_TineNetObjectSpawnFinishedMessage$

Field Value

| ТҮРЕ | DESCRIPTION |
|-----------------------------------|-------------|
| TinyNetObjectSpawnFinishedMessage | |

$s_TinyNetAddPlayerMessage\\$

protected static TinyNetAddPlayerMessage s_TinyNetAddPlayerMessage

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------------------|-------------|
| TinyNetAddPlayerMessage | |

$s_TinyNetClientAuthorityMessage$

Declaration

 $protected\ static\ TinyNetClientAuthorityMessage\ s_TinyNetClientAuthorityMessage$

Field Value

| ТУРЕ | DESCRIPTION |
|-------------------------------|-------------|
| TinyNetClientAuthorityMessage | |

$s_TinyNetObjectDestroyMessage\\$

Declaration

protected static TinyNetObjectDestroyMessage s_TinyNetObjectDestroyMessage

Field Value

| ТҮРЕ | DESCRIPTION |
|-----------------------------|-------------|
| TinyNetObjectDestroyMessage | |

$s_TinyNetObjectHideMessage\\$

Declaration

protected static TinyNetObjectHideMessage s_TinyNetObjectHideMessage

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------------------|-------------|
| TinyNetObjectHideMessage | |

$s_TinyNetObjectSpawnMessage\\$

Declaration

 ${\tt protected} \ \ {\tt static} \ \ {\tt TinyNetObjectSpawnMessage} \ \ {\tt s_TinyNetObjectSpawnMessage}$

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------------------|-------------|
| TinyNetObjectSpawnMessage | |

$s_TinyNetObjectSpawnSceneMessage$

Declaration

 ${\tt protected\ static\ TinyNetObjectSpawnSceneMessage\ s_TinyNetObjectSpawnSceneMessage\ }$

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------------------------|-------------|
| TinyNetObjectSpawnSceneMessage | |

$s_TinyNetRemovePlayerMessage$

Declaration

protected static TinyNetRemovePlayerMessage s_TinyNetRemovePlayerMessage

Field Value

| ТУРЕ | DESCRIPTION |
|----------------------------|-------------|
| TinyNetRemovePlayerMessage | |

$s_TinyNetRequestAddPlayerMessage$

Declaration

 ${\tt protected} \ \ {\tt static} \ \ {\tt TinyNetRequestAddPlayerMessage} \ \ {\tt s_TinyNetRequestAddPlayerMessage}$

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------------------------|-------------|
| TinyNetRequestAddPlayerMessage | |

$s_TinyNetRequestRemovePlayerMessage$

Declaration

 ${\tt protected} \ \ {\tt static} \ \ {\tt TinyNetRequestRemovePlayerMessage} \ \ {\tt s_TinyNetRequestRemovePlayerMessage}$

Field Value

| ТҮРЕ | DESCRIPTION |
|-----------------------------------|-------------|
| TinyNetRequestRemovePlayerMessage | |

$s_TinyNetRPCMessage$

Declaration

 ${\tt protected\ static\ TinyNetRPCMessage\ s_TinyNetRPCMessage}$

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetRPCMessage | |

Properties

 $conn \\ To \\ Host$

Gets or sets the connection to host.

```
public TinyNetConnection connToHost { get; protected set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------------------|
| TinyNetConnection | The connection to host. |

isConnected

Returns true if it's connected to at least one peer.

Declaration

```
public bool isConnected { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

isRunning

Returns true if socket is listening and update thread is running.

Declaration

```
public bool isRunning { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

tinyNetConns

Gets the connections to this scene.

Declaration

```
public List<TinyNetConnection> tinyNetConns { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---|----------------------|
| System.Collections.Generic.List <tinynetconnection></tinynetconnection> | The connection list. |

TYPE

Sugar for generating debug logs.

```
public virtual string TYPE { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Methods

AddPlayerControllerToConnection(TinyNetConnection, Int32)

Attempts to add a player controller to the connection.

Declaration

protected virtual void AddPlayerControllerToConnection(TinyNetConnection conn, int playerControllerId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|--------------------|-----------------------------------|
| TinyNetConnection | conn | The connection. |
| System.Int32 | playerControllerId | The player controller identifier. |

Add Tiny Net Identity To List (Tiny Net Identity)

Adds the TinyNetIdentity to list.

Declaration

public static void AddTinyNetIdentityToList(TinyNetIdentity netIdentity)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|-------------|-------------------|
| TinyNetIdentity | netIdentity | The net identity. |

AddTinyNetObjectToList(ITinyNetObject)

Adds the ITinyNetObject to list.

Declaration

public static void AddTinyNetObjectToList(ITinyNetObject netObj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|--------|-----------------|
| ITinyNetObject | netObj | The net object. |

ClearNetManager()

Clears the net manager.

public virtual void ClearNetManager()

ConfigureNetManager(Boolean)

Configures the net manager.

Declaration

protected virtual void ConfigureNetManager(bool bUseFixedTime)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|---------------|---------------------------------------|
| System.Boolean | bUseFixedTime | if set to true use fixed update time. |

CreatePlayerAndAdd(TinyNetConnection, Int32)

Creates a player controller and adds it to the connection.

Declaration

protected virtual void CreatePlayerAndAdd(TinyNetConnection conn, int playerControllerId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|--------------------|-----------------------------------|
| TinyNetConnection | conn | The connection. |
| System.Int32 | playerControllerId | The player controller identifier. |

CreateTinyNetConnection(NetPeer)

Creates a TinyNetConnection for the given NetPeer.

Declaration

protected virtual TinyNetConnection CreateTinyNetConnection(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | The peer. |

Returns

| ТУРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

GetTinyNetConnection(NetPeer)

Returns the TinyNetConnection with the given NetPeer.

Declaration

protected TinyNetConnection GetTinyNetConnection(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | The peer. |

Returns

| TYPE | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

GetTinyNetConnection(Int64)

Returns the TinyNetConnection with the given connection identifier.

Declaration

protected TinyNetConnection GetTinyNetConnection(long connId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|--------|----------------------------|
| System.Int64 | connld | The connection identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

GetTinyNetIdentityByNetworkID(Int32)

Gets a TinyNetIdentity by it's network identifier.

Declaration

public static TinyNetIdentity GetTinyNetIdentityByNetworkID(int nId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|----------------|
| System.Int32 | nld | The NetworkID. |

Returns

| ТҮРЕ | DESCRIPTION |
|-----------------|-------------|
| TinyNetIdentity | |

GetTinyNetObjectByNetworkID(Int32)

Gets a ITinyNetObject by it's network identifier.

Declaration

public static ITinyNetObject GetTinyNetObjectByNetworkID(int nId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|----------------|
| System.Int32 | nld | The NetworkID. |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| ITinyNetObject | |

InternalUpdate()

It is called from TinyNetGameManager Update(), handles PollEvents().

Declaration

public virtual void InternalUpdate()

OnConnectionCreated(TinyNetConnection)

Called after a peer has connected and a TinyNetConnection was created for it.

Declaration

protected virtual void OnConnectionCreated(TinyNetConnection nConn)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|-------|-------------------------|
| TinyNetConnection | nConn | The connection created. |

On Connection Request (Connection Request)

On peer connection requested

Declaration

public virtual void OnConnectionRequest(ConnectionRequest request)

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|---------|--|
| ConnectionRequest | request | Request information (EndPoint, internal id, additional data) |

OnDisconnect(TinyNetConnection)

Called after a peer has been disconnected but before the TinyNetConnection has been removed from the list.

Declaration

protected virtual void OnDisconnect(TinyNetConnection nConn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-------|-----------------------------------|
| TinyNetConnection | nConn | The connection that disconnected. |

$On Discovery Request Received (Net End Point,\ Net Data Reader)$

Called when a discovery request is received.

Declaration

protected virtual void OnDiscoveryRequestReceived(NetEndPoint remoteEndPoint, NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-----------------------|
| NetEndPoint | remoteEndPoint | The remote end point. |
| NetDataReader | reader | The reader. |

OnNetworkError(NetEndPoint, Int32)

Network error (on send or receive)

Declaration

public virtual void OnNetworkError(NetEndPoint endPoint, int socketErrorCode)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------------|-----------------------------|
| NetEndPoint | endPoint | From endPoint (can be null) |
| System.Int32 | socketErrorCode | Socket error code |

OnNetworkLatencyUpdate(NetPeer, Int32)

Latency information updated

Declaration

public virtual void OnNetworkLatencyUpdate(NetPeer peer, int latency)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------------------------|
| NetPeer | peer | Peer with updated latency |
| System.Int32 | latency | latency value in milliseconds |

OnNetworkReceive(NetPeer, NetDataReader, DeliveryMethod)

Received some data

Declaration

public virtual void OnNetworkReceive(NetPeer peer, NetDataReader reader, DeliveryMethod deliveryMethod)

Parameters

| ТҮРЕ | NAME | DESCRIPTION | |
|----------------|----------------|---|--|
| NetPeer | peer | From peer | |
| NetDataReader | reader | DataReader containing all received data | |
| DeliveryMethod | deliveryMethod | Type of received packet | |

$On Network Receive Unconnected (NetEndPoint,\ NetDataReader,\ Unconnected Message Type)$

Received unconnected message

Declaration

public virtual void OnNetworkReceiveUnconnected(NetEndPoint remoteEndPoint, NetDataReader reader,
UnconnectedMessageType messageType)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------------|----------------------------|
| NetEndPoint | remoteEndPoint | From address (IP and Port) |
| NetDataReader | reader | Message data |

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|-------------|--|
| UnconnectedMessageType | messageType | Message type (simple, discovery request or responce) |

OnPeerConnected(NetPeer)

New remote peer connected to host, or client connected to remote host

Declaration

public virtual void OnPeerConnected(NetPeer peer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------|------|-----------------------|
| NetPeer | peer | Connected peer object |

OnPeerDisconnected(NetPeer, DisconnectInfo)

Peer disconnected

Declaration

public virtual void OnPeerDisconnected(NetPeer peer, DisconnectInfo disconnectInfo)

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|----------------|--|
| NetPeer | peer | disconnected peer |
| DisconnectInfo | disconnectInfo | additional info about reason, errorCode or data received with disconnect message |

On RPC Message (Tiny Net Message Reader)

Called when an RPC message is received.

Declaration

protected virtual void OnRPCMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|------------------|
| TinyNetMessageReader | netMsg | The net message. |

RegisterHandler(UInt16, TinyNetMessageDelegate)

Registers a message handler.

public void RegisterHandler(ushort msgType, TinyNetMessageDelegate handler)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|---------|----------------------|
| System.UInt16 | msgType | Type of the message. |
| TinyNetMessageDelegate | handler | The handler. |

Register Handler Safe (UInt 16, Tiny Net Message Delegate)

Registers a message handler safely.

Declaration

public void RegisterHandlerSafe(ushort msgType, TinyNetMessageDelegate handler)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|---------|----------------------|
| System.UInt16 | msgType | Type of the message. |
| TinyNetMessageDelegate | handler | The handler. |

RegisterMessageHandlers()

Registers the message handlers.

Declaration

protected virtual void RegisterMessageHandlers()

Remove Player Controller From Connection (Tiny Net Connection, Int 16)

Removes a player controller from connection.

Declaration

protected virtual void RemovePlayerControllerFromConnection(TinyNetConnection conn, short playerControllerId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|--------------------|-----------------------------------|
| TinyNetConnection | conn | The connection. |
| System.Int16 | playerControllerId | The player controller identifier. |

RemoveTinyNetConnection(NetPeer)

Removes the connection.

Declaration

protected virtual bool RemoveTinyNetConnection(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | The peer. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

RemoveTinyNetConnection(Int64)

Removes the connection.

Declaration

protected virtual bool RemoveTinyNetConnection(long connectId)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|-----------|----------------------------|
| System.Int64 | connectId | The connection identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Remove Tiny Net Connection (Tiny Net Connection)

Removes the connection.

Declaration

protected virtual bool RemoveTinyNetConnection(TinyNetConnection nConn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-------|-----------------|
| TinyNetConnection | nConn | The connection. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Remove Tiny Net I dentity From List (Tiny Net I dentity)

Removes the TinyNetIdentity from the list.

Declaration

public static void RemoveTinyNetIdentityFromList(TinyNetIdentity netIdentity)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|-------------|-------------------|
| TinyNetIdentity | netIdentity | The net identity. |

Remove Tiny Net Object From List (IT in y Net Object)

Removes the ITinyNetObject from the list.

Declaration

public static void RemoveTinyNetObjectFromList(ITinyNetObject netObj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|--------|-----------------|
| ITinyNetObject | netObj | The net object. |

$Send Message By Channel To All Connections (IT in yNet Message,\ Delivery Method)$

Sends the message by a specific channel to all connections.

Declaration

public virtual void SendMessageByChannelToAllConnections(ITinyNetMessage msg, DeliveryMethod sendOptions)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|-------------|-------------------|
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | sendOptions | The send options. |

 $Send Message By Channel To All Observers Of (Tiny Net Identity, \ ITiny Net Message, \ Delivery Method)$

Sends the message by a specific channel to all observers of a TinyNetIdentity.

public virtual void SendMessageByChannelToAllObserversOf(TinyNetIdentity tni, ITinyNetMessage msg, DeliveryMethod sendOptions)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------------|----------------------|
| TinyNetIdentity | tni | The TinyNetIdentity. |
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | sendOptions | The send options. |

$Send Message By Channel To All Ready Connections (IT in yNet Message,\ Delivery Method)$

Sends the message by a specific channel to all ready connections.

Declaration

public virtual void SendMessageByChannelToAllReadyConnections(ITinyNetMessage msg, DeliveryMethod sendOptions)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|-------------|-------------------|
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | sendOptions | The send options. |

SendMessageByChannelToHost(ITinyNetMessage, DeliveryMethod)

Sends the message by a specific channel to host.

Declaration

public virtual void SendMessageByChannelToHost(ITinyNetMessage msg, DeliveryMethod sendOptions)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-------------|-------------------|
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | sendOptions | The send options. |

 $SendMessageByChannelToTargetConnection (IT in yNetMessage,\ DeliveryMethod,\ TinyNetConnection)$

Sends the message by a specific channel to target connection.

public virtual void SendMessageByChannelToTargetConnection(ITinyNetMessage msg, DeliveryMethod sendOptions,
TinyNetConnection tinyNetConn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-------------|-------------------|
| ITinyNetMessage | msg | The message. |
| DeliveryMethod | sendOptions | The send options. |
| TinyNetConnection | tinyNetConn | The connection. |

SetPingInterval(Int32)

Sets the ping interval.

Declaration

public virtual void SetPingInterval(int newPingInterval)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|-----------------|------------------------|
| System.Int32 | newPingInterval | The new ping interval. |

TinyNetUpdate()

Run every frame, called from TinyNetGameManager.

Declaration

public virtual void TinyNetUpdate()

ToggleNatPunching(Boolean)

Toggles the nat punching.

Declaration

public virtual void ToggleNatPunching(bool bNewState)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|-----------|-----------------------------|
| System.Boolean | bNewState | The new nat punching state. |

Implements

INetEventListener

See Also



Class TinyNetServer

Represents the Scene of a server.

Inheritance

System.Object

TinyNetScene

TinyNetServer

Implements

INetEventListener

Inherited Members

TinyNetScene.createPlayerAction

TinyNetScene._localIdentityObjects

TinyNetScene._localNetObjects

TinyNetScene.recycleWriter

TinyNetScene.recycleMessageReader

TinyNetScene.s_TinyNetRPCMessage

TinyNetScene.s_TinyNetObjectHideMessage

TinyNetScene.s_TinyNetObjectDestroyMessage

TinyNetScene.s_TinyNetObjectSpawnMessage

 $TinyNetScene.s_TinyNetObjectSpawnSceneMessage$

TinyNetScene.s_TineNetObjectSpawnFinishedMessage

TinyNetScene.s_TinyNetAddPlayerMessage

TinyNetScene.s_TinyNetRemovePlayerMessage

TinyNetScene.s_TinyNetRequestAddPlayerMessage

 $TinyNetScene.s_TinyNetRequestRemovePlayerMessage$

TinyNetScene.s_TinyNetClientAuthorityMessage

TinyNetScene._tinyMessageHandlers

TinyNetScene._tinyNetConns

TinyNetScene.tinyNetConns

TinyNetScene.connToHost

TinyNetScene._netManager

TinyNetScene.currentFixedFrame

TinyNetScene.isRunning

TinyNetScene.isConnected

TinyNetScene.RegisterHandler(UInt16, TinyNetMessageDelegate)

TinyNetScene. Register Handler Safe (UInt 16, TinyNetMessage Delegate)

TinyNetScene.InternalUpdate()

TinyNetScene.ClearNetManager()

Tiny Net Scene. Configure Net Manager (Boolean)

TinyNetScene.ToggleNatPunching(Boolean)

TinyNetScene.SetPingInterval(Int32)

TinyNetScene.GetTinyNetConnection(Int64)

TinyNetScene.GetTinyNetConnection(NetPeer)

TinyNetScene.RemoveTinyNetConnection(TinyNetConnection)

TinyNetScene.RemoveTinyNetConnection(NetPeer)

TinyNetScene.RemoveTinyNetConnection(Int64)

TinyNetScene.AddTinyNetIdentityToList(TinyNetIdentity)

Tiny Net Scene. Add Tiny Net Object To List (IT in y Net Object)

TinyNetScene.RemoveTinyNetIdentityFromList(TinyNetIdentity)

Tiny Net Scene. Remove Tiny Net Object From List (IT in y Net Object)

TinyNetScene.GetTinyNetIdentityByNetworkID(Int32)

TinyNetScene.GetTinyNetObjectByNetworkID(Int32)

TinyNetScene.SendMessageByChannelToHost(ITinyNetMessage, DeliveryMethod)

TinyNetScene. SendMessageByChannelToTargetConnection (ITinyNetMessage, DeliveryMethod, TinyNetConnection)

TinyNetScene.SendMessageByChannelToAllConnections(ITinyNetMessage, DeliveryMethod)

TinyNetScene.SendMessageByChannelToAllReadyConnections(ITinyNetMessage, DeliveryMethod)

TinyNetScene. SendMessageByChannelToAllObserversOf (TinyNetIdentity, ITinyNetMessage, DeliveryMethod)

TinyNetScene.OnConnectionRequest(ConnectionRequest)

TinyNetScene.OnPeerConnected(NetPeer)

TinyNetScene.OnPeerDisconnected(NetPeer, DisconnectInfo)

TinyNetScene.OnNetworkError(NetEndPoint, Int32)

TinyNetScene.OnNetworkReceive(NetPeer, NetDataReader, DeliveryMethod)

TinyNetScene.OnNetworkReceiveUnconnected(NetEndPoint, NetDataReader, UnconnectedMessageType)

TinyNetScene.OnNetworkLatencyUpdate(NetPeer, Int32)

TinyNetScene.OnDiscoveryRequestReceived(NetEndPoint, NetDataReader)

TinyNetScene.OnConnectionCreated(TinyNetConnection)

TinyNetScene.OnDisconnect(TinyNetConnection)

TinyNetScene.OnRPCMessage(TinyNetMessageReader)

TinyNetScene.AddPlayerControllerToConnection(TinyNetConnection, Int32)

TinyNetScene. Remove Player Controller From Connection (TinyNetConnection, Int 16)

TinyNetScene.CreatePlayerAndAdd(TinyNetConnection, Int32)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetServer : TinyNetScene, INetEventListener

Constructors

TinyNetServer()

Initializes a new instance of the TinyNetServer class.

Declaration

public TinyNetServer()

Fields

instance

The singleton instance.

Declaration

public static TinyNetServer instance

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| TinyNetServer | |

Properties

TYPE

Sugar for generating debug logs.

Declaration

public override string TYPE { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Overrides

TinyNetScene.TYPE

Methods

 ${\tt CreateTinyNetConnection(NetPeer)}$

Creates a TinyNetConnection for the given NetPeer.

Declaration

protected override TinyNetConnection CreateTinyNetConnection(NetPeer peer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------|------|-------------|
| NetPeer | peer | The peer. |

Returns

| т | УРЕ | DESCRIPTION |
|---|------------------|-------------|
| Т | inyNetConnection | |

Overrides

TinyNetScene.CreateTinyNetConnection(NetPeer)

DestroyObject(TinyNetIdentity, Boolean)

Destroys the object.

Declaration

public void DestroyObject(TinyNetIdentity tni, bool destroyServerObject)

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|---------------------|--|
| TinyNetIdentity | tni | The TinyNetIdentity of the object. |
| System.Boolean | destroyServerObject | if set to true destroy the object on server too. |

DestroyObject(GameObject)

Destroys the object.

Declaration

public void DestroyObject(GameObject obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|------|------------------------|
| UnityEngine.GameObject | obj | The object to destroy. |

GetPlayerController(Int32)

Gets the player controller that have the given identifier.

Declaration

public TinyNetPlayerController GetPlayerController(int playerControllerId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|--------------------|-----------------------------------|
| System.Int32 | playerControllerId | The player controller identifier. |

Returns

| ТУРЕ | DESCRIPTION |
|-------------------------|-------------|
| TinyNetPlayerController | |

GetPlayerControllerFromConnection(Int 64, Int 32)

Gets the player controller from a specific connection.

Declaration

public TinyNetPlayerController GetPlayerControllerFromConnection(long connId, int playerControllerId)

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------|----------------------------|
| System.Int64 | connld | The connection identifier. |

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------------------|-----------------------------------|
| System.Int32 | playerControllerId | The player controller identifier. |

Returns

| ТҮРЕ | DESCRIPTION |
|-------------------------|-------------|
| TinyNetPlayerController | |

HideForConnection(TinyNetIdentity, TinyNetConnection)

Always call this from a TinyNetConnection RemoveFromVisList, or you will have sync issues.

Declaration

public void HideForConnection(TinyNetIdentity tinyNetId, TinyNetConnection conn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-----------|--------------------------|
| TinyNetIdentity | tinyNetId | The tiny net identifier. |
| TinyNetConnection | conn | The connection. |

On Connect Message (Tiny Net Message Reader)

Called when a connection message is received.

Declaration

protected virtual void OnConnectMessage(TinyNetMessageReader netMsg)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|------------------|
| TinyNetMessageReader | netMsg | The net message. |

OnServerSceneChanged(String)

Called when the server scene is changed.

 ${\sf Declaration}$

public virtual void OnServerSceneChanged(string sceneName)

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-----------|--------------------|
| System.String | sceneName | Name of the scene. |

RegisterMessageHandlers()

Registers the message handlers.

Declaration

protected override void RegisterMessageHandlers()

Overrides

TinyNetScene.RegisterMessageHandlers()

SendRPCToAllClients(NetDataWriter, Int32, ITinyNetObject)

Sends the RPC to all clients.

Declaration

public void SendRPCToAllClients(NetDataWriter stream, int rpcMethodIndex, ITinyNetObject iObj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|----------------|--------------------------|
| NetDataWriter | stream | The stream. |
| System.Int32 | rpcMethodIndex | Index of the RPC method. |
| ITinyNetObject | iObj | The object. |

SendRPCToClientOwner(NetDataWriter, Int32, ITinyNetObject)

Sends the RPC to the client owner of an object.

Declaration

public void SendRPCToClientOwner(NetDataWriter stream, int rpcMethodIndex, ITinyNetObject iObj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------|----------------|--------------------------|
| NetDataWriter | stream | The stream. |
| System.Int32 | rpcMethodIndex | Index of the RPC method. |
| ITinyNetObject | iObj | The object. |

SendSpawnMessage(TinyNetIdentity, TinyNetConnection)

Send a spawn message.

public void SendSpawnMessage(TinyNetIdentity netIdentity, TinyNetConnection targetConn = null)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------------|-------------|---|
| TinyNetIdentity | netIdentity | The TinyNetIdentity of the object to spawn. |
| TinyNetConnection | targetConn | |

$Send State Update To All Observers (Tiny Net Behaviour,\ Delivery Method)$

Sends the state update to all observers of an object.

Declaration

public virtual void SendStateUpdateToAllObservers(TinyNetBehaviour netBehaviour, DeliveryMethod sendOptions)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------|--------------|-----------------------|
| TinyNetBehaviour | netBehaviour | The TinyNetBehaviour. |
| DeliveryMethod | sendOptions | The send options. |

SetAllClientsNotReady()

Sets all clients as not ready.

Declaration

public void SetAllClientsNotReady()

ShowForConnection(TinyNetIdentity, TinyNetConnection)

Always call this from a TinyNetConnection ShowObjectToConnection, or you will have sync issues.

Declaration

public void ShowForConnection(TinyNetIdentity tinyNetId, TinyNetConnection conn)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------------|-----------|--------------------------|
| TinyNetIdentity | tinyNetId | The tiny net identifier. |
| TinyNetConnection | conn | The connection. |

Spawn(GameObject)

Just a shortcut to SpawnObject(obj)

Declaration

public static void Spawn(GameObject obj)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|------|----------------------|
| UnityEngine.GameObject | obj | The object to spawn. |

SpawnAllObjects()

Spawns all TinyNetIdentity objects in the scene.

Declaration

public bool SpawnAllObjects()

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-----------------------------------|
| System.Boolean | This actually always return true? |

SpawnObject(GameObject)

Spawns the object.

Declaration

public void SpawnObject(GameObject obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|------|----------------------|
| UnityEngine.GameObject | obj | The object to spawn. |

$SpawnWithClientAuthority(GameObject,\ TinyNetConnection)$

Spawns the object with client authority.

Declaration

public bool SpawnWithClientAuthority(GameObject obj, TinyNetConnection conn)

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|------|----------------------------------|
| UnityEngine.GameObject | obj | The object to spawn. |
| TinyNetConnection | conn | The connection that will own it. |

Returns

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

StartServer(Int32, Int32)

Starts the server.

Declaration

public virtual bool StartServer(int port, int maxNumberOfPlayers)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|--------------------|--------------------------------|
| System.Int32 | port | The port. |
| System.Int32 | maxNumberOfPlayers | The maximum number of players. |

Returns

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

TinyNetUpdate()

Run every frame, called from TinyNetGameManager.

Declaration

public override void TinyNetUpdate()

Overrides

TinyNetScene.TinyNetUpdate()

UnSpawnObject(TinyNetIdentity)

Unspawn an object.

Declaration

public void UnSpawnObject(TinyNetIdentity tni)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|------|-------------|
| TinyNetIdentity | tni | |

UnSpawnObject(GameObject)

Unspawn an object.

public void UnSpawnObject(GameObject obj)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------------------------|------|------------------------|
| UnityEngine.GameObject | obj | The object to unspawn. |

Implements

 ${\sf INetEventListener}$

See Also

TinyNetScene

Class TinyNetSimpleMenu

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

TinyNetSimpleMenu

Inherited Members

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.CancelInvoke()

UnityEngine.MonoBehaviour.CancelInvoke(System.String)

UnityEngine.MonoBehaviour.IsInvoking(System.String)

UnityEngine.MonoBehaviour.IsInvoking()

UnityEngine.MonoBehaviour.StartCoroutine(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine_Auto(System.Collections.IEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(UnityEngine.Coroutine)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

UnityEngine.MonoBehaviour.useGUILayout

UnityEngine.MonoBehaviour.runInEditMode

UnityEngine.Behaviour.enabled

UnityEngine.Behaviour.isActiveAndEnabled

UnityEngine.Component.GetComponent(System.Type)

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentlnChildren(System.Type)

UnityEngine.Component.GetComponentInChildren<T>()

UnityEngine.Component.GetComponentInChildren<T>(System.Boolean)

Unity Engine. Component. Get Components In Children (System. Type)

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

Unity Engine. Component. Get Components In Children < T > (System. Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean, System.Collections.Generic.List<T>)

Unity Engine. Component. Get Components In Children < T > ()

UnityEngine.Component.GetComponentsInChildren<T>(System.Collections.Generic.List<T>)

Unity Engine. Component. Get Component In Parent (System. Type)

UnityEngine.Component.GetComponentInParent<T>()

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

Unity Engine. Component. Get Components In Parent < T > (System. Boolean, System. Collections. Generic. List < T >)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Component.GetComponents(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

Unity Engine. Component. Send Message Upwards (System. String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

Unity Engine. Component. Send Message (System. String, System. Object)

UnityEngine.Component.SendMessage(System.String)

UnityEngine.Component.SendMessage(System.String, UnityEngine.SendMessageOptions)

Unity Engine. Component. Broadcast Message (System. String, System. Object, Unity Engine. Send Message Options)

UnityEngine.Component.BroadcastMessage(System.String, System.Object)

UnityEngine.Component.BroadcastMessage(System.String)

Unity Engine. Component. Broadcast Message (System. String, Unity Engine. Send Message Options)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Component.rigidbody

UnityEngine.Component.rigidbody2D

UnityEngine.Component.camera

UnityEngine.Component.light

UnityEngine.Component.animation

UnityEngine.Component.constantForce

UnityEngine.Component.renderer

UnityEngine.Component.audio

UnityEngine.Component.guiText

UnityEngine.Component.networkView

UnityEngine.Component.guiElement

UnityEngine.Component.guiTexture

UnityEngine.Component.collider

UnityEngine.Component.collider2D

UnityEngine.Component.hingeJoint

Unity Engine. Component. particle Emitter

Unity Engine. Component. particle System

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

Unity Engine. Object. Destroy Immediate (Unity Engine. Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

Unity Engine. Object. Find Objects Of Type Including Assets (System. Type)

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetSimpleMenu : MonoBehaviour

Fields

hostPortField

Declaration

public InputField hostPortField

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------------------|-------------|
| UnityEngine.UI.InputField | |

ipToConnectField

Declaration

public InputField ipToConnectField

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------------------|-------------|
| UnityEngine.UI.InputField | |

port To Connect Field

Declaration

public InputField portToConnectField

Field Value

| ТУРЕ | DESCRIPTION |
|---------------------------|-------------|
| UnityEngine.UI.InputField | |

Methods

PressedConnectButton()

Declaration

public void PressedConnectButton()

PressedHostButton()

Declaration

public void PressedHostButton()

Toggle Nat Punching (Boolean)

Declaration

public void ToggleNatPunching(bool bNewValue)

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-----------|-------------|
| System.Boolean | bNewValue | |

Class TinyNetStateSyncer

This class stores all SyncVar allowed properties and is used to sync the game state.

Inheritance

System.Object

TinyNetStateSyncer

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

public abstract class TinyNetStateSyncer

Fields

rpcMethods

Declaration

protected static Dictionary<Type, List<RPCMethodInfo>> rpcMethods

Field Value

| ТУРЕ | DESCRIPTION |
|--|-------------|
| System.Collections.Generic.Dictionary < System.Type, System.Collections.Generic.List < RPCMethodInfo > > | |

sync Var Props

Declaration

protected static Dictionary<Type, List<PropertyInfo>> syncVarProps

Field Value

| ТҮРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.Dictionary < System.Type, System.Collections.Generic.List < System.Reflection.PropertyInfo > > | |

tempIntArray

Declaration

protected static int[] tempIntArray

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Int32[] | |

Methods

AddPropertyToType(PropertyInfo, Type)

Declaration

public static void AddPropertyToType(PropertyInfo prop, Type type)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------------------|------|-------------|
| System.Reflection.PropertyInfo | prop | |
| System.Type | type | |

AddRPCMethodNameToType(String, RPCTarget, RPCCallers, Type)

Declaration

public static void AddRPCMethodNameToType(string rpcName, RPCTarget nTarget, RPCCallers nCaller, Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | rpcName | |
| RPCTarget | nTarget | |
| RPCCallers | nCaller | |
| System.Type | type | |

DirtyFlagToInt(BitArray)

Declaration

public static int DirtyFlagToInt(BitArray bitArray)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------------------|----------|-------------|
| System.Collections.BitArray | bitArray | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Display(Int32, Boolean)

Declaration

public static string Display(int value, bool cull = false)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|-------|-------------|
| System.Int32 | value | |
| System.Boolean | cull | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

GetNumberOfRPCMethods (Type)

Declaration

public static int GetNumberOfRPCMethods(Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetNumberOfSyncedProperties (Type)

Declaration

public static int GetNumberOfSyncedProperties(Type type)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetPropertyInfoFromType(Type, String)

Declaration

public static PropertyInfo GetPropertyInfoFromType(Type type, string propName)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|----------|-------------|
| System.String | propName | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------------------------|-------------|
| System.Reflection.PropertyInfo | |

GetRPCMethodIndexFromType(Type, String)

Declaration

public static int GetRPCMethodIndexFromType(Type type, string rpcName)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.Type | type | |
| System.String | rpcName | |

Returns

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

GetRPCMethodInfoFromType(Type, Int32, ref RPCMethodInfo)

Declaration

public static void GetRPCMethodInfoFromType(Type type, int rpcMethodIndex, ref RPCMethodInfo rpcMethodInfo)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|----------------|-------------|
| System.Type | type | |
| System.Int32 | rpcMethodIndex | |
| RPCMethodInfo | rpcMethodInfo | |

GetRPCMethodInfoFromType(Type, String, ref RPCMethodInfo)

Declaration

public static int GetRPCMethodInfoFromType(Type type, string rpcName, ref RPCMethodInfo rpcMethodInfo)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Type | type | |
| | | |

| ТУРЕ | NAME | DESCRIPTION |
|---------------|---------------|-------------|
| System.String | rpcName | |
| RPCMethodInfo | rpcMethodInfo | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

$Initialize Property Info List Of Type (Int 32, \ Type)$

Declaration

public static void InitializePropertyInfoListOfType(int size, Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | size | |
| System.Type | type | |

InitializeRPCMethodsOfType(Int32, Type)

Declaration

public static void InitializeRPCMethodsOfType(int size, Type type)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | size | |
| System.Type | type | |

IntToDirtyFlag(Int32, BitArray)

Declaration

public static void IntToDirtyFlag(int input, BitArray bitArray)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------------------|----------|-------------|
| System.Int32 | input | |
| System.Collections.BitArray | bitArray | |

OutPropertyNamesFromType(Type, out String[])

Declaration

public static void OutPropertyNamesFromType(Type type, out string[] propNames)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|-----------|-------------|
| System.Type | type | |
| System.String[] | propNames | |

OutPropertyTypesFromType(Type, out Type[])

Declaration

public static void OutPropertyTypesFromType(Type type, out Type[] propTypes)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|-----------|-------------|
| System.Type | type | |
| System.Type[] | propTypes | |

OutRPCMethodNamesFromType(Type, out String[])

Declaration

public static void OutRPCMethodNamesFromType(Type type, out string[] rpcNames)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|-----------------|----------|-------------|
| System.Type | type | |
| System.String[] | rpcNames | |

UpdateDirtyFlagOf(TinyNetBehaviour, BitArray)

Declaration

public static void UpdateDirtyFlagOf(TinyNetBehaviour instance, BitArray bitArray)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------------------|----------|-------------|
| TinyNetBehaviour | instance | |
| System.Collections.BitArray | bitArray | |

Class TinyNetSyncVar

When used on a compatible property type, it will send it's value to all clients if they are changed.

byte, sbyte, short, ushort, int, uint, long, ulong, float, double, bool, string.

Inheritance

System.Object

System.Attribute

TinyNetSyncVar

Implements

System.Runtime.InteropServices._Attribute

Inherited Members

System.Attribute.System.Runtime.InteropServices._Attribute.GetIDsOfNames(System.Guid, System.IntPtr, System.UInt32, System.UInt32, System.IntPtr)

System. Attribute. System. UInt 32, Sy

 $System. Attribute. System. Runtime. Interop Services._Attribute. Get Type Info Count (System. UInt 32)$

System.Attribute.System.Runtime.InteropServices._Attribute.Invoke(System.UInt32, System.Guid, System.UInt32, System.Int16,

System.IntPtr, System.IntPtr, System.IntPtr)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Assembly, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type, System. Boolean)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System. Attribute. Is Defined (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.Equals(System.Object)

System.Attribute.TypeId

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet

Assembly: Assembly-CSharp.dll

Syntax

```
[AttributeUsage(AttributeTargets.Property)]

public class TinyNetSyncVar : Attribute, _Attribute
```

Fields

allowedTypes

The types allowed for this attribute.

Declaration

```
public static HashSet<Type> allowedTypes
```

Field Value

| ТУРЕ | DESCRIPTION |
|--|-------------|
| System.Collections.Generic.HashSet < System.Type > | |

Implements

System.Runtime.InteropServices._Attribute

Delegate UnSpawnDelegate

Handles requests to unspawn objects on the client

Namespace: TinyBirdNet
Assembly: Assembly-CSharp.dll

Syntax

public delegate void UnSpawnDelegate(GameObject gObj);

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------------------------|------|-----------------|
| UnityEngine.GameObject | gObj | The GameObject. |

Namespace TinyBirdNet.Messaging

Classes Tiny Net Add Player MessageTinyNetBoolMessage TinyNetByteMessage TinyNetClientAuthorityMessage TinyNetEmptyMessage TinyNetFloatMessage TinyNetInputMessage This is basically a message that gets delivered directly to a TinyNetPlayerController. TinyNetIntegerMessage TinyNetMessageReader Used to provide an easy way to read different messages. TinyNetMsgType built-in system network messages TinyNetNotReadyMessage TinyNetObjectDestroyMessage TinyNetObjectHideMessage TinyNetObjectSpawnFinishedMessage TinyNetObjectSpawnMessage TinyNetObjectSpawnSceneMessage TinyNetObjectStateUpdate TinyNetOwnerMessage Something about player controllers objects, but since they are not gameobjects in TinyBirdNet this message is useless. TinyNetReadyMessage TinyNetRemovePlayerMessage Tiny Net Request Add Player MessageTiny Net Request Remove Player MessageTinyNetRPCMessage TinyNetShortMessage TinyNetStringMessage Interfaces

Delegates

ITinyNetMessage

An interface used by all messages.

TinyNetMessageDelegate

| The c | delegate | used for | message | handlers. |
|-------|----------|----------|---------|-----------|
|-------|----------|----------|---------|-----------|

Interface ITinyNetMessage

An interface used by all messages.

Namespace: TinyBirdNet.Messaging Assembly: Assembly-CSharp.dll

Syntax

public interface ITinyNetMessage

Properties

msgType

Declaration

```
ushort msgType { get; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Deserializes the contents of the NetDataReader into this message.

Declaration

void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|--------------------|
| NetDataReader | reader | The NetDataReader. |

Serialize(NetDataWriter)

Serializes the contents of this message into the NetDataWriter.

Declaration

void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|--------------------|
| NetDataWriter | writer | The NetDataWriter. |

Class TinyNetAddPlayerMessage

Inheritance

System.Object

Tiny Net Add Player Message

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetAddPlayerMessage : ITinyNetMessage

Fields

msgData

Declaration

public byte[] msgData

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

msgSize

Declaration

public int msgSize

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

playerControllerId

Declaration

public short playerControllerId

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetBoolMessage

Inheritance

System.Object

 ${\sf TinyNetBoolMessage}$

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetBoolMessage : ITinyNetMessage

Constructors

TinyNetBoolMessage()

Declaration

public TinyNetBoolMessage()

TinyNetBoolMessage(Boolean)

Declaration

public TinyNetBoolMessage(bool v)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|------|-------------|
| System.Boolean | v | |

Fields

value

Declaration

public bool value

Field Value

| ТУРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Properties

msgType

Declaration

| public | ushort | msgType | { | get: | set: | } |
|--------|----------|----------|---|------|------|---|
| Public | usiloi c | m381 ypc | ι | gcc, | 300, | J |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetByteMessage

Inheritance

System.Object

TinyNetByteMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetByteMessage : ITinyNetMessage

Constructors

TinyNetByteMessage()

Declaration

public TinyNetByteMessage()

TinyNetByteMessage(Byte)

Declaration

public TinyNetByteMessage(byte v)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-------------|------|-------------|
| System.Byte | V | |

Fields

value

Declaration

public byte value

Field Value

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Byte | |

Properties

msgType

Declaration

| public | ushort | msgType | { | get: | set: | } |
|--------|----------|----------|---|------|------|---|
| Public | usiloi c | m381 ypc | ι | gcc, | 300, | J |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetClientAuthorityMessage

Inheritance

System.Object

TinyNetClientAuthorityMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetClientAuthorityMessage : ITinyNetMessage

Fields

authority

Declaration

public bool authority

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

networkID

Declaration

public int networkID

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

```
public ushort msgType { get; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetEmptyMessage

Inheritance

System.Object

TinyNetEmptyMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetEmptyMessage : ITinyNetMessage

Properties

msgType

Declaration

public ushort msgType { get; set; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetFloatMessage

Inheritance

System.Object

TinyNetFloatMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetFloatMessage : ITinyNetMessage

Constructors

TinyNetFloatMessage()

Declaration

public TinyNetFloatMessage()

TinyNetFloatMessage(Single)

Declaration

public TinyNetFloatMessage(float v)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.Single | v | |

Fields

value

Declaration

public float value

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.Single | |

Properties

msgType

Declaration

| public | ushort | msgType | { | get: | set: | } |
|--------|----------|----------|---|------|------|---|
| Public | usiloi c | m381 ypc | ι | gcc, | 300, | J |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetInputMessage

This is basically a message that gets delivered directly to a TinyNetPlayerController.

Inheritance

System.Object

TinyNetInputMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging Assembly: Assembly-CSharp.dll

Syntax

public abstract class TinyNetInputMessage : ITinyNetMessage

Fields

playerControllerId

Declaration

public short playerControllerId

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public virtual void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Peek At Player Controller Id (Tiny Net Message Reader)

Declaration

public static short PeekAtPlayerControllerId(TinyNetMessageReader netMsg)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------------|--------|-------------|
| TinyNetMessageReader | netMsg | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Serialize(NetDataWriter)

Declaration

public virtual void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

ITinyNetMessage

See Also

Class TinyNetIntegerMessage

Inheritance

System.Object

TinyNetIntegerMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetIntegerMessage : ITinyNetMessage

Constructors

TinyNetIntegerMessage()

Declaration

public TinyNetIntegerMessage()

TinyNetIntegerMessage(Int32)

Declaration

public TinyNetIntegerMessage(int v)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int32 | V | |

Fields

value

Declaration

public int value

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

public ushort msgType { get; set; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Delegate TinyNetMessageDelegate

The delegate used for message handlers.

Namespace: TinyBirdNet.Messaging Assembly: Assembly-CSharp.dll

Syntax

public delegate void TinyNetMessageDelegate(TinyNetMessageReader netMsg);

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|----------------------|--------|---------------------------|
| TinyNetMessageReader | netMsg | The TinyNetMessageReader. |

Class TinyNetMessageReader

Used to provide an easy way to read different messages.

Inheritance

System.Object

TinyNetMessageReader

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetMessageReader

Fields

channelld

The delivery method of this message.

Not implemmented yet.

Declaration

public DeliveryMethod channelId

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| DeliveryMethod | |

MaxMessageSize

The maximum message size allowed.

Declaration

public const int MaxMessageSize = 65535

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

msgType

The message type id

Declaration

public ushort msgType

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

reader

A reader with data stream of the message to read.

Declaration

public NetDataReader reader

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| NetDataReader | |

tiny Net Conn

The connection from where this message came from.

Declaration

public TinyNetConnection tinyNetConn

Field Value

| ТҮРЕ | DESCRIPTION |
|-------------------|-------------|
| TinyNetConnection | |

Methods

Dump(Byte[], Int32)

Dumps the specified payload.

Declaration

public static string Dump(byte[] payload, int sz)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|---------|--------------------------|
| System.Byte[] | payload | The payload. |
| System.Int32 | SZ | The size of the payload. |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

ReadMessage<TMsg>()

Reads the message.

Declaration

public TMsg ReadMessage<TMsg>()where TMsg : ITinyNetMessage, new ()

Returns

| ТҮРЕ | DESCRIPTION |
|------|-------------|
| TMsg | |

Type Parameters

| NAME | DESCRIPTION |
|------|-----------------------------|
| TMsg | The type id of the message. |

ReadMessage<TMsg>(TMsg)

Reads the message.

Declaration

public void ReadMessage<TMsg>(TMsg msg)where TMsg : ITinyNetMessage

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|------|------|---|
| TMsg | msg | A message where the data will be deserialized to. |

Type Parameters

| NAME | DESCRIPTION |
|------|-----------------------------|
| TMsg | The type id of the message. |

Class TinyNetMsgType

built-in system network messages

Inheritance

System.Object

TinyNetMsgType

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging
Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetMsgType

Fields

AddPlayer

Declaration

public const ushort AddPlayer = 37

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Connect

Declaration

public const ushort Connect = 32

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

CRC

Declaration

public const ushort CRC = 14

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Disconnect

Declaration

public const ushort Disconnect = 33

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Error

Declaration

```
public const ushort Error = 34
```

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Highest

The highest system message id used.

Declaration

```
public const ushort Highest = 41
```

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Input

Declaration

```
public const ushort Input = 6
```

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Internal Highest

Declaration

```
public const ushort InternalHighest = 31
```

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

LocalChildTransform

Declaration

public const ushort LocalChildTransform = 16

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Local Client Authority

Declaration

public const ushort LocalClientAuthority = 15

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

NetworkInfo

Declaration

public const ushort NetworkInfo = 11

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

NotReady

Declaration

public const ushort NotReady = 36

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

ObjectDestroy

Declaration

public const ushort ObjectDestroy = 1

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

ObjectHide

Declaration

public const ushort ObjectHide = 13

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Object Spawn Message

Declaration

public const ushort ObjectSpawnMessage = 3

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

ObjectSpawnScene

Declaration

public const ushort ObjectSpawnScene = 10

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Owner

Declaration

public const ushort Owner = 4

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

PeerClientAuthority

Declaration

public const ushort PeerClientAuthority = 17

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Ready

Declaration

public const ushort Ready = 35

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

RemovePlayer

Declaration

public const ushort RemovePlayer = 38

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Request Add Player

Declaration

public const ushort RequestAddPlayer = 39

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Request Remove Player

Declaration

public const ushort RequestRemovePlayer = 40

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Rpc

Declaration

public const ushort Rpc = 2

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Scene

Declaration

public const ushort Scene = 41

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

SpawnFinished

Declaration

public const ushort SpawnFinished = 12

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

SpawnPlayer

Declaration

public const ushort SpawnPlayer = 5

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

${\sf StateUpdate}$

Declaration

public const ushort StateUpdate = 8

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

SyncEvent

Declaration

public const ushort SyncEvent = 7

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

SyncList

Declaration

public const ushort SyncList = 9

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

MsgTypeToString(UInt16)

Converts the type id to a readable string.

Declaration

public static string MsgTypeToString(ushort value)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|-------|----------------------|
| System.UInt16 | value | The message type id. |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Class TinyNetNotReadyMessage

Inheritance

System.Object

TinyNetNotReadyMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetNotReadyMessage : ITinyNetMessage

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectDestroyMessage

Inheritance

System.Object

TinyNetObjectDestroyMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectDestroyMessage : ITinyNetMessage

Fields

networkID

Declaration

public int networkID

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize (Net Data Reader)

Declaration

public virtual void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public virtual void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectHideMessage

Inheritance

System.Object

TinyNetObjectHideMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectHideMessage : ITinyNetMessage

Fields

networkID

Declaration

public int networkID

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public virtual void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public virtual void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectSpawnFinishedMessage

Inheritance

System.Object

Tiny Net Object Spawn Finished Message

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectSpawnFinishedMessage : ITinyNetMessage

Fields

state

Declaration

public byte state

Field Value

| ТУРЕ | DESCRIPTION |
|-------------|-------------|
| System.Byte | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectSpawnMessage

Inheritance

System.Object

Tiny Net Object Spawn Message

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectSpawnMessage : ITinyNetMessage

Fields

assetIndex

Declaration

public int assetIndex

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

initialState

Declaration

public byte[] initialState

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

networkID

Declaration

public int networkID

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

position

Declaration

public Vector3 position

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------------|-------------|
| UnityEngine.Vector3 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public virtual void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public virtual void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectSpawnSceneMessage

Inheritance

System.Object

TinyNetObjectSpawnSceneMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectSpawnSceneMessage : ITinyNetMessage

Fields

initialState

Declaration

public byte[] initialState

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

networkID

Declaration

public int networkID

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

position

Declaration

public Vector3 position

Field Value

| ТУРЕ | DESCRIPTION |
|---------------------|-------------|
| UnityEngine.Vector3 | |

sceneld

Declaration

public int sceneId

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetObjectStateUpdate

Inheritance

System.Object

Tiny Net Object State Update

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetObjectStateUpdate : ITinyNetMessage

Fields

dirtyFlag

Declaration

public int dirtyFlag

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

networkID

Declaration

public int networkID

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

state

Declaration

public byte[] state

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public virtual void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public virtual void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetOwnerMessage

Something about player controllers objects, but since they are not gameobjects in TinyBirdNet this message is useless.

Inheritance

System.Object

TinyNetOwnerMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetOwnerMessage : ITinyNetMessage

Fields

connectId

Declaration

public short connectId

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

networkID

Declaration

public int networkID

Field Value

| ТУРЕ | DESCRIPTION | |
|--------------|-------------|--|
| System.Int32 | | |

Properties

msgType

Declaration

public ushort msgType { get; }

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetReadyMessage

Inheritance

System.Object

TinyNetReadyMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetReadyMessage : ITinyNetMessage

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetRemovePlayerMessage

Inheritance

System.Object

TinyNetRemovePlayerMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetRemovePlayerMessage : ITinyNetMessage

Fields

playerControllerId

Declaration

public short playerControllerId

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize (Net Data Reader)

Declaration

public void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetRequestAddPlayerMessage

Inheritance

System.Object

TinyNetRequestAddPlayerMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetRequestAddPlayerMessage : ITinyNetMessage

Fields

amountOfPlayers

Declaration

public ushort amountOfPlayers

Field Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetRequestRemovePlayerMessage

Inheritance

System.Object

Tiny Net Request Remove Player Message

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetRequestRemovePlayerMessage : ITinyNetMessage

Fields

playerControllerId

Declaration

public short playerControllerId

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize (Net Data Reader)

Declaration

public void Deserialize(NetDataReader reader)

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetRPCMessage

Inheritance

System.Object

TinyNetRPCMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetRPCMessage : ITinyNetMessage

Fields

networkID

Declaration

public int networkID

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

parameters

Declaration

public byte[] parameters

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.Byte[] | |

rpcMethodIndex

Declaration

public int rpcMethodIndex

Field Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Properties

msgType

Declaration

public ushort msgType { get; }

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetShortMessage

Inheritance

System.Object

TinyNetShortMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetShortMessage : ITinyNetMessage

Constructors

TinyNetShortMessage()

Declaration

public TinyNetShortMessage()

TinyNetShortMessage(Int16)

Declaration

public TinyNetShortMessage(short v)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------|------|-------------|
| System.Int16 | V | |

Fields

value

Declaration

public short value

Field Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int16 | |

Properties

msgType

Declaration

| public | ushort | msgType | { | get: | set: | } |
|--------|----------|----------|---|------|------|---|
| Public | usiloi c | m381 ypc | ι | gcc, | 300, | J |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Class TinyNetStringMessage

Inheritance

System.Object

TinyNetStringMessage

Implements

ITinyNetMessage

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdNet.Messaging

Assembly: Assembly-CSharp.dll

Syntax

public class TinyNetStringMessage : ITinyNetMessage

Constructors

TinyNetStringMessage()

Declaration

public TinyNetStringMessage()

TinyNetStringMessage(String)

Declaration

public TinyNetStringMessage(string v)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | V | |

Fields

value

Declaration

public string value

Field Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Properties

msgType

Declaration

| public | ushort | msgType | { | get: | set: | } |
|--------|----------|----------|---|------|------|---|
| Public | usiloi c | m381 ypc | ι | gcc, | 300, | J |

Property Value

| ТУРЕ | DESCRIPTION |
|---------------|-------------|
| System.UInt16 | |

Methods

Deserialize(NetDataReader)

Declaration

public void Deserialize(NetDataReader reader)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataReader | reader | |

Serialize(NetDataWriter)

Declaration

public void Serialize(NetDataWriter writer)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|---------------|--------|-------------|
| NetDataWriter | writer | |

Implements

Namespace TinyBirdUtils

Classes

TinyLogger

Helper that removes debug calls from release builds.

Currently not working due to a bug in Unity [Conditional].

Class TinyLogger

Helper that removes debug calls from release builds.

Currently not working due to a bug in Unity [Conditional].

Inheritance

System.Object

TinyLogger

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ToString()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: TinyBirdUtils

Assembly: Assembly-CSharp.dll

Syntax

public class TinyLogger

Methods

Log(Object, Object)

Declaration

public static void Log(object message, Object context = null)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------|---------|-------------|
| System.Object | message | |
| UnityEngine.Object | context | |

LogError(Object, Object)

Declaration

public static void LogError(object message, Object context = null)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------|---------|-------------|
| System.Object | message | |
| UnityEngine.Object | context | |

LogWarning(Object, Object)

Declaration

public static void LogWarning(object message, Object context = null)

| ТҮРЕ | NAME | DESCRIPTION |
|--------------------|---------|-------------|
| System.Object | message | |
| UnityEngine.Object | context | |