HomeOS.Hub.Common.DataStore.IStream

Contents

Append(IKey, IValue)

Appends a new value to the specified key.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
StrKey key = new StrKey("myKey");
StrValue val = new StrValue("myVal");
datastream.Append(key, val);
```

Parameters

Parameter	Value
key	The key to update.
value	The value.

Update(IKey, IValue)

Modifies the newest value for the specified key.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
StrKey key = new StrKey("myKey");
StrValue val = new StrValue("myVal");
datastream.Put(key, val);
```

Parameters

Parameter	Value
key	The key to update.
value	The value.

Get(IKey)

Gets the newest value from the specified key.

Returns An IValue containing the results.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
string result = datastream.Get("myKey");
```

Parameters

Parameter	Value
key	The key to query.

GetLatest()

Gets the newest [key, value, timestamp] tuple inserted.

Returns The newest tuple (key, value, timestamp) that was inserted.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
Tuple result = datastream.GetLatest();
```

Parameters None.

GetAll(IKey)

Get all the [key, value, ts] tuples corresponding to the specified key.

Returns An IEnumerable containing the results.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
```

```
IEnumerable result = datastream.GetAll("myKey");
```

Parameters

Parameter	Value
key	The key to query.

GetAll(IKey, Int64, Int64)

Get all the [key, value, timestamp] tuples in the given time range corresponding to the specified key.

Returns An IEnumerable containing the results.

Example

```
IStream datastream;<br /> datastream = base.CreateFileStream<StrKey, StrValue>("myStream",
false);<br /> DateTime fromTime = new DateTime(2001, 01, 01, 0, 0, 0, DateTimeKind.Utc);<br />
DateTime rightNow = DateTime.UtcNow;<br /> IEnumerable result = datastream.GetAll("myKey",
fromTime, rightNow);
```

Parameters

Parameter	Value
key	The key to query.
startTimeStamp	The timestamp at which the range should begin.
endTimeStamp	The timestamp at which the range should end.

GetKeys(IKey, IKey)

Get a list of all keys in the specified key range.

Returns A List containing the results.

Example

```
IStream datastream;
datastream = base.CreateFileStream<StrKey, StrValue>("myStream", false);
IKey startKey = new IKey("begin");
IKey endKey = new IKey("end");
List result = datastream.GetKeys(startKey, endKey);
```

Parameters

Parameter	Value
startKey	The key at which the range should begin.
endKey	The key at which the range should end.

DeleteStream()

Deletes the current stream.

Parameters None.

GrantReadAccess(String)

Grants read access to the app at the specified AppId.

Returns A boolean indicating success or failure.

Parameters

Parameter	Value
AppId	The AppId of the app to which read access should be granted.

GrantReadAccess(String, String)

Grants read access to the app at the specified HomeId and AppId.

Returns A boolean indicating success or failure.

Parameters

Parameter	Value
HomeId	The HomeId of the app to which read access should be granted.
AppId	The AppId of the app to which read access should be granted.

RevokeReadAccess(String)

Revokes read access from the app at the specified AppId.

Returns A boolean indicating success or failure.

Parameters

Parameter	Value
AppId	The AppId of the app from which read access should be revoked.

RevokeReadAccess(String, String)

Revokes read access from the app at the specified HomeId and AppId.

Returns A boolean indicating success or failure.

Parameters

Parameter	Value
HomeId	The HomeId of the app from which read access should be revoked.
AppId	The AppId of the app from which read access should be revoked.

Flush()

Flushes the current stream from memory.

Parameters None.

Close()

Closes the current stream.

Returns A boolean indicating success or failure.

Parameters None.