

ZPI

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

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SystemInfo System information gathering module	9

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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Chapter 4

Namespace Documentation

4.1 Package pl.edu.agh.zpi.admintools

Classes

- class [AdminTools](#)
Main client activity, manage whole application.
- class **KeyTextWatcher**
Text watcher for key text.
- class [ChartsActivity](#)
Activity for interacting and handling charts visualization.
- class **DatePickerFragment**
Date picker dialog.
- class [ConnectionService](#)
Service for handling connection events and messages.
- class [StatsActivity](#)
- class **ShortTextWatcher**
- class **ShortOnFocusChangeListener**

4.1.1 Detailed Description

TODO obsługa headerTimeout - teraz zawiesza się przy próbie zalogowania

4.2 SystemInfo Namespace Reference

System information gathering module.

Classes

- class [Cpu](#)
Contains [Cpu](#) related information (times, cpu model details).
- class [DiagnosticMgr](#)
Singleton manager for information gathering and visualization.
- class [FileSystem](#)
Class contains file system informations.
- class [InfoMapper](#)

Utils for easy Sigar to [SystemInfo](#) data mapping.

- class [ModuleInfo](#)

Pure abstract class for module info ([Cpu](#), Memory etc.).

- class [Resources](#)

Contains current resources status and its limits.

4.2.1 Detailed Description

System information gathering module.

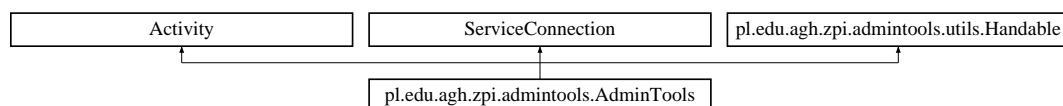
Chapter 5

Class Documentation

5.1 pl.edu.agh.zpi.admintools.AdminTools Class Reference

Main client activity, manage whole application.

Inheritance diagram for pl.edu.agh.zpi.admintools.AdminTools:



Public Member Functions

- void **onConnect** (View view) throws InterruptedException
Execute on establish connection.
- void **onServiceConnected** (ComponentName name, IBinder service)
Execute on service connection establish event.
- void **onServiceDisconnected** (ComponentName name)
Execute on service disconnected event.
- void **handleMessage** (Message msg)
Handle incoming Message.
- boolean **onCreateOptionsMenu** (Menu menu)
Execute on creation of options menu.
- boolean **onOptionsItemSelected** (MenuItem item)
Execute on menu options item selection.

Static Public Attributes

- static final String **HOST** = "pl.edu.agh.zpi.admintools.host"
Host field key.
- static final String **PORT** = "pl.edu.agh.zpi.admintools.port"
Port field key.
- static final String **KEY** = "pl.edu.agh.zpi.admintools.key"
Authentication key field key.
- static final String **INTERVAL** = "pl.edu.agh.zpi.admintools.interval"
Time interval field key.

- static final String [CONN_PREFS_NAME](#) = "connection_prefs_file"
Connection preferences name field key.
- static final String [NETWORK_ERROR](#) = "pl.edu.agh.zpi.admintools.network_error"
Network error field key.
- static final int [STATS_ACTIVITY_CODE](#) = 1
Starting stats activity code.
- static final int [CHARTS_ACTIVITY_CODE](#) = 2
Starting charts activity code.

Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)
Execute on activity creation.
- void [onDestroy](#) ()
Execute on activity destruction.
- void [onResume](#) ()
Execute on activity resume event.
- void [onActivityResult](#) (int requestCode, int resultCode, Intent data)
Execute on activity result request.

5.1.1 Detailed Description

Main client activity, manage whole application.

5.1.2 Member Function Documentation

5.1.2.1 public void [pl.edu.agh.zpi.admintools.AdminTools.handleMessage](#) ([Message msg](#)) [[inline](#)]

Handle incoming Message.

Parameters

<i>msg</i>	Incoming Message.
------------	-------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.utils.Handable](#).

5.1.2.2 protected void [pl.edu.agh.zpi.admintools.AdminTools.onActivityResult](#) (int *requestCode*, int *resultCode*, Intent *data*) [[inline](#)], [[protected](#)]

Execute on activity result request.

Parameters

<i>requestCode</i>	Request code.
<i>resultCode</i>	Result code.

<i>data</i>	Intent data.
-------------	--------------

Returns

None.

5.1.2.3 `public void pl.edu.agh.zpi.admintools.AdminTools.onConnect (View view) throws InterruptedException` `[inline]`

Execute on establish connection.

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

5.1.2.4 `protected void pl.edu.agh.zpi.admintools.AdminTools.onCreate (Bundle savedInstanceState)` `[inline]`,
`[protected]`

Execute on activity creation.

Parameters

<i>savedInstanceState</i>	Bundle with object saved state.
---------------------------	---------------------------------

Returns

None.

5.1.2.5 `public boolean pl.edu.agh.zpi.admintools.AdminTools.onCreateOptionsMenu (Menu menu)` `[inline]`

Execute on creation of options menu.

Parameters

<i>menu</i>	Menu data.
-------------	------------

Returns

true.

5.1.2.6 `protected void pl.edu.agh.zpi.admintools.AdminTools.onDestroy ()` `[inline]`, `[protected]`

Execute on activity destruction.

Returns

None.

5.1.2.7 `public boolean pl.edu.agh.zpi.admintools.AdminTools.onOptionsItemSelected (MenuItem item)` `[inline]`

Execute on menu options item selection.

Parameters

<i>item</i>	Selected menu item.
-------------	---------------------

Returns

If selected.

5.1.2.8 `protected void pl.edu.agh.zpi.admintools.AdminTools.onResume () [inline], [protected]`

Execute on activity resume event.

Returns

None.

5.1.2.9 `public void pl.edu.agh.zpi.admintools.AdminTools.onServiceConnected (ComponentName name, IBinder service) [inline]`

Execute on service connection establish event.

Parameters

<i>name</i>	Component name.
<i>service</i>	Service binder.

Returns

None.

5.1.2.10 `public void pl.edu.agh.zpi.admintools.AdminTools.onServiceDisconnected (ComponentName name) [inline]`

Execute on service disconnected event.

Parameters

<i>name</i>	Component name.
-------------	-----------------

Returns

None.

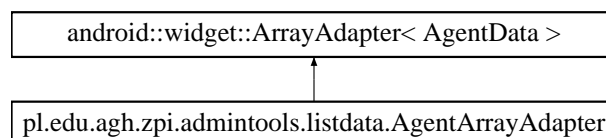
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/AdminTools.java

5.2 pl.edu.agh.zpi.admintools.listdata.AgentArrayAdapter Class Reference

Adapter for AgentData arrays for easy agent data visualization.

Inheritance diagram for pl.edu.agh.zpi.admintools.listdata.AgentArrayAdapter:



Public Member Functions

- [AgentArrayAdapter](#) (Context context)
Constructor, set global context.
- View [getView](#) (int position, View convertView, ViewGroup parent)
Get View created over current agent data.
- void [set](#) (int position, [AgentData](#) agent, boolean isAlerted)
Set new agent data.

Static Public Attributes

- static final double [DIVIDER](#) = 1024 * 1024 * 1024
Memory divider (for byte to gigabyte calculations).

5.2.1 Detailed Description

Adapter for AgentData arrays for easy agent data visualization.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 `public pl.edu.agh.zpi.admintools.listdata.AgentArrayAdapter.AgentArrayAdapter (Context context)` `[inline]`

Constructor, set global context.

Parameters

<i>context</i>	Context with env global informations.
----------------	---------------------------------------

5.2.3 Member Function Documentation

5.2.3.1 `public View pl.edu.agh.zpi.admintools.listdata.AgentArrayAdapter.getView (int position, View convertView, ViewGroup parent)` `[inline]`

Get View created over current agent data.

Parameters

<i>position</i>	Agent data index.
<i>convertView</i>	Source view.
<i>parent</i>	Parental group. Unused.

Returns

Instance of filled with agent data View.

5.2.3.2 `public void pl.edu.agh.zpi.admintools.listdata.AgentArrayAdapter.set (int position, AgentData agent, boolean isAlerted)` `[inline]`

Set new agent data.

Parameters

<i>position</i>	Agent data index.
<i>agent</i>	Agent data.
<i>isAlerted</i>	Flag with alert information.

Returns

None.

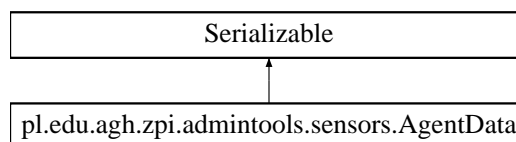
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/listdata/AgentArrayAdapter.java

5.3 pl.edu.agh.zpi.admintools.sensors.AgentData Class Reference

Agent data structure as serializable POJO.

Inheritance diagram for pl.edu.agh.zpi.admintools.sensors.AgentData:



Public Member Functions

- short [getId](#) ()
Get agent id.
- [SensorsData](#) [getData](#) ()
Get current sensor data from agent.
- String [getName](#) ()
Get agent name.
- String [toString](#) ()
Convert [AgentData](#) to string representation.
- boolean [equals](#) (Object o)
Check equality of object with given parameter.
- void [setAgentData](#) ([AgentData](#) agent)
Set agent data from other object.

Static Public Member Functions

- static [AgentData](#) [fromByteBuffer](#) (ByteBuffer buffer)
Fill agent data with given byte buffer.

5.3.1 Detailed Description

Agent data structure as serializable POJO.

5.3.2 Member Function Documentation

5.3.2.1 public boolean pl.edu.agh.zpi.admintools.sensors.AgentData.equals (Object o) [inline]

Check equality of object with given parameter.

Parameters

<i>o</i>	Object to check.
----------	------------------

Returns

If equals.

5.3.2.2 `public static AgentData pl.edu.agh.zpi.admintools.sensors.AgentData.fromByteBuffer (ByteBuffer buffer)`
[inline], [static]

Fill agent data with given byte buffer.

Parameters

<i>buffer</i>	Byte buffer with agent data.
---------------	------------------------------

Returns

Converted [AgentData](#) object.

5.3.2.3 `public SensorsData pl.edu.agh.zpi.admintools.sensors.AgentData.getData ()` [inline]

Get current sensor data from agent.

Returns

Current sensor data.

5.3.2.4 `public short pl.edu.agh.zpi.admintools.sensors.AgentData.getId ()` [inline]

Get agent id.

Returns

Agent id.

5.3.2.5 `public String pl.edu.agh.zpi.admintools.sensors.AgentData.getName ()` [inline]

Get agent name.

Returns

Agent name.

5.3.2.6 `public void pl.edu.agh.zpi.admintools.sensors.AgentData.setAgentData (AgentData agent)` [inline]

Set agent data from other object.

Parameters

<i>agent</i>	AgentData object.
--------------	-----------------------------------

Returns

None.

5.3.2.7 `public String pl.edu.agh.zpi.admintools.sensors.AgentData.toString () [inline]`

Convert [AgentData](#) to string representation.

Returns

String representation.

The documentation for this class was generated from the following file:

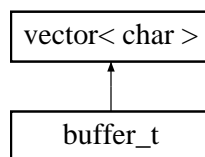
- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/AgentData.java`

5.4 `buffer_t` Class Reference

Byte buffer used for marshalling.

```
#include <common.h>
```

Inheritance diagram for `buffer_t`:



Public Member Functions

- `template<typename T>`
`bool append (const T &val)`
Append single data to buffer.
- `template<typename T>`
`bool append (const vector< T > &array)`
Append vector of data to buffer.

5.4.1 Detailed Description

Byte buffer used for marshalling.

Implemented as stl vector of chars.

5.4.2 Member Function Documentation

5.4.2.1 `template<typename T> template< typename T> bool buffer_t::append (const T & val) [inline]`

Append single data to buffer.

Parameters

<i>val</i>	Data to append.
------------	-----------------

Returns

If succeeded.

5.4.2.2 `template<typename T > template< typename T > bool buffer_t::append (const vector< T > & array) [inline]`

Append vector of data to buffer.

Parameters

<i>array</i>	Data to append.
--------------	-----------------

Returns

If succeeded.

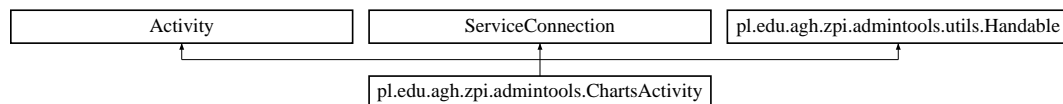
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/common/common.h

5.5 pl.edu.agh.zpi.admintools.ChartsActivity Class Reference

Activity for interacting and handling charts visualization.

Inheritance diagram for pl.edu.agh.zpi.admintools.ChartsActivity:



Public Member Functions

- void [handleMessage](#) (Message msg)
Handle incoming Message.
- void [onServiceConnected](#) (ComponentName name, IBinder service)
Execute on service connection establish event.
- void [onServiceDisconnected](#) (ComponentName name)
Execute on service disconnected event.
- void [submit](#) (View view)
Submit given view. Do something.
- void [setAxis](#) (int minVal, int maxVal)
Set charts axis.
- void [updateDate](#) ()
Update charts date.
- void [setDate](#) (View view)
Set charts date.
- void [setDataType](#) (View view)
Set charts data type.

Static Public Attributes

- static final String [AGENT](#) = "pl.edu.agh.zpi.admintools.ChartsActivity.AGENT"
Agent item full key.

Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)
Execute on activity creation.
- void [onDestroy](#) ()
Execute on activity destruction.
- void [onStop](#) ()
Execute on activity stop event.
- void [onResume](#) ()
Execute on activity resume event.

5.5.1 Detailed Description

Activity for interacting and handling charts visualization.

5.5.2 Member Function Documentation

5.5.2.1 public void pl.edu.agh.zpi.admintools.ChartsActivity.handleMessage (Message *msg*) `[inline]`

Handle incoming Message.

Parameters

<i>msg</i>	Incoming Message.
------------	-------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.utils.Handable](#).

5.5.2.2 protected void pl.edu.agh.zpi.admintools.ChartsActivity.onCreate (Bundle *savedInstanceState*) `[inline]`, `[protected]`

Execute on activity creation.

Parameters

<i>savedInstanceState</i>	Bundle with object saved state.
---------------------------	---------------------------------

Returns

None.

5.5.2.3 `protected void pl.edu.agh.zpi.admintools.ChartsActivity.onDestroy () [inline], [protected]`

Execute on activity destruction.

Returns

None.

5.5.2.4 `protected void pl.edu.agh.zpi.admintools.ChartsActivity.onResume () [inline], [protected]`

Execute on activity resume event.

Returns

None.

5.5.2.5 `public void pl.edu.agh.zpi.admintools.ChartsActivity.onServiceConnected (ComponentName name, IBinder service) [inline]`

Execute on service connection establish event.

Parameters

<i>name</i>	Component name.
<i>service</i>	Service binder.

Returns

None.

5.5.2.6 `public void pl.edu.agh.zpi.admintools.ChartsActivity.onServiceDisconnected (ComponentName name) [inline]`

Execute on service disconnected event.

Parameters

<i>name</i>	Component name.
-------------	-----------------

Returns

None.

5.5.2.7 `protected void pl.edu.agh.zpi.admintools.ChartsActivity.onStop () [inline], [protected]`

Execute on activity stop event.

Returns

None.

5.5.2.8 `public void pl.edu.agh.zpi.admintools.ChartsActivity.setAxis (int minVal, int maxVal) [inline]`

Set charts axis.

Parameters

<i>minVal</i>	Minimal axis value.
<i>maxVal</i>	Maximum axis value.

Returns

None.

5.5.2.9 `public void pl.edu.agh.zpi.admintools.ChartsActivity.setDataType (View view) [inline]`

Set charts data type.

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

5.5.2.10 `public void pl.edu.agh.zpi.admintools.ChartsActivity.setDate (View view) [inline]`

Set charts date.

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

5.5.2.11 `public void pl.edu.agh.zpi.admintools.ChartsActivity.submit (View view) [inline]`

Submit given view. Do something.

Parameters

<i>view</i>	Submitted view.
-------------	-----------------

Returns

None.

5.5.2.12 `public void pl.edu.agh.zpi.admintools.ChartsActivity.updateDate () [inline]`

Update charts date.

Returns

None.

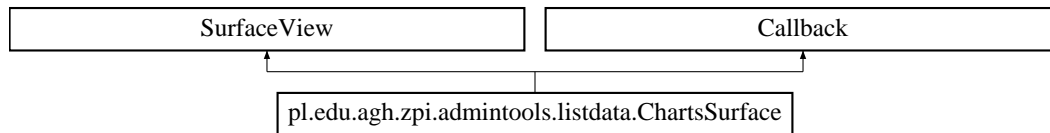
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/ChartsActivity.java

5.6 pl.edu.agh.zpi.admintools.listdata.ChartsSurface Class Reference

Surface for displaying charts data.

Inheritance diagram for pl.edu.agh.zpi.admintools.listdata.ChartsSurface:



Public Member Functions

- [ChartsSurface](#) (Context context, AttributeSet attrs)
Constructor, set global context and set of attribute.
- void [surfaceChanged](#) (SurfaceHolder holder, int format, int width, int height)
Execute on surface changed event.
- void [surfaceCreated](#) (SurfaceHolder holder)
Execute on surface creation.
- void [surfaceDestroyed](#) (SurfaceHolder holder)
Execute on surface destruction.
- void [setData](#) (ArrayList< Float > data, int type)
Set new data tu surface and display it on charts.

Static Public Attributes

- static final int [ACCURACY](#) = 10
Charts data accuracy.

5.6.1 Detailed Description

Surface for displaying charts data.

5.6.2 Constructor & Destructor Documentation

5.6.2.1 `public pl.edu.agh.zpi.admintools.listdata.ChartsSurface.ChartsSurface (Context context, AttributeSet attrs)`
`[inline]`

Constructor, set global context and set of attribute.

Parameters

<i>context</i>	Context with env global informations.
<i>attrs</i>	A collection of attributes (AttributeSet).

5.6.3 Member Function Documentation

5.6.3.1 `public void pl.edu.agh.zpi.admintools.listdata.ChartsSurface.setData (ArrayList< Float > data, int type)`
`[inline]`

Set new data tu surface and display it on charts.

Parameters

<i>data</i>	List with series of data.
<i>type</i>	Stats type flag.

Returns

None.

5.6.3.2 `public void pl.edu.agh.zpi.admintools.listdata.ChartsSurface.surfaceChanged (SurfaceHolder holder, int format, int width, int height) [inline]`

Execute on surface changed event.

Parameters

<i>holder</i>	Surface holder class.
<i>format</i>	Surface format.
<i>width</i>	Surface width.
<i>height</i>	Surface height.

Returns

None.

5.6.3.3 `public void pl.edu.agh.zpi.admintools.listdata.ChartsSurface.surfaceCreated (SurfaceHolder holder) [inline]`

Execute on surface creation.

Parameters

<i>holder</i>	Surface holder class.
---------------	-----------------------

Returns

None.

5.6.3.4 `public void pl.edu.agh.zpi.admintools.listdata.ChartsSurface.surfaceDestroyed (SurfaceHolder holder) [inline]`

Execute on surface destruction.

Parameters

<i>holder</i>	Surface holder class.
---------------	-----------------------

Returns

None.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/listdata/ChartsSurface.java

5.7 Client Class Reference

Represents handled client-agent.

```
#include <client.h>
```

Public Member Functions

- [Client](#) (int [fd](#), const string &[ip](#), int [port](#))
Constructor, initialize data with incoming connection returns.
- void [readData](#) ()
Read data from client-agent.
- void [process](#) ()
Process all waiting request.
- void [fetchConfig](#) ()
Fetch client-agent current configuration.

Public Attributes

- int [fd](#)
[Client](#) id, mostly socket descriptor used for its communication.
- string [ip](#)
[Client](#) ip address.
- int [port](#)
[Client](#) port.
- bool [toDelete](#)
If client is not used.
- bool [settingsChanged](#)
If client settings changed.

5.7.1 Detailed Description

Represents handled client-agent.

5.7.2 Constructor & Destructor Documentation

5.7.2.1 [Client::Client](#) (int [fd](#), const string & [ip](#), int [port](#))

Constructor, initialize data with incoming connection returns.

Parameters

<i>fd</i>	Socket descriptor.
<i>ip</i>	Client ip address.
<i>port</i>	Client port.

5.7.3 Member Function Documentation

5.7.3.1 void [Client::fetchConfig](#) ()

Fetch client-agent current configuration.

Returns

None.

5.7.3.2 void Client::process ()

Process all waiting request.

Returns

None.

5.7.3.3 void Client::readData ()

Read data from client-agent.

Returns

None.

The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/server/client.h
- D:/Programowanie/Projekty/ZPI/server/client.cpp

5.8 Config Class Reference

Simple handler for configuration files.

```
#include <config.h>
```

Public Member Functions

- [Config](#) ()
Default constructor, do nothing.
- [~Config](#) ()
Destructor, do nothing.
- bool [fromFile](#) (const string &path)
Load configuration from given file.
- bool [saveToFile](#) (const string &path)
Save configuration to given file.
- bool [hasKey](#) (const string &key)
Check if configuration contains given key.
- string [getString](#) (const string &key, const string &def="")
Get string value connected with given key.
- int [getInt](#) (const string &key, int def=0)
Get int value connected with given key.
- void [setString](#) (const string &key, const string &value)
Insert string value and assign it with given key.
- void [setInt](#) (const string &key, int val)
Insert int value and assign it with given key.
- bool **fromFile** (const string &path)
- bool **saveToFile** (const string &path)
- bool **hasKey** (const string &key)
- string **getString** (const string &key, const string &def="")
- int **getInt** (const string &key, int def=0)
- void **setString** (const string &key, const string &value)
- void **setInt** (const string &key, int val)

5.8.1 Detailed Description

Simple handler for configuration files.

5.8.2 Member Function Documentation

5.8.2.1 `bool Config::fromFile (const string & path)`

Load configuration from given file.

Parameters

<i>path</i>	Path pointing to configuration file.
-------------	--------------------------------------

Returns

If succeeded.

5.8.2.2 `int Config::getInt (const string & key, int def = 0)`

Get int value connected with given key.

Parameters

<i>key</i>	Key connected with wanted value.
<i>def</i>	Default value in case of absence of given key.

Returns

Value connected with key or default value def otherwise.

5.8.2.3 `string Config::getString (const string & key, const string & def = " ")`

Get string value connected with given key.

Parameters

<i>key</i>	Key connected with wanted value.
<i>def</i>	Default value in case of absence of given key.

Returns

Value connected with key or default value def otherwise.

5.8.2.4 `bool Config::hasKey (const string & key)`

Check if configuration contains given key.

Parameters

<i>key</i>	Key to check.
------------	---------------

Returns

If contained.

5.8.2.5 bool Config::saveToFile (const string & *path*)

Save configuration to given file.

Parameters

<i>path</i>	Path pointing to configuration file.
-------------	--------------------------------------

Returns

If succeeded.

5.8.2.6 void Config::setInt (const string & key, int val)

Insert int value and assign it with given key.

Parameters

<i>key</i>	Key connected with inserted value.
<i>val</i>	Inserted value.

Returns

None.

Parameters

<i>key</i>	Key connected with inserted value.
<i>value</i>	Inserted value.

Returns

None.

5.8.2.7 void Config::setString (const string & key, const string & value)

Insert string value and assign it with given key.

Parameters

<i>key</i>	Key connected with inserted value.
<i>value</i>	Inserted value.

Returns

None.

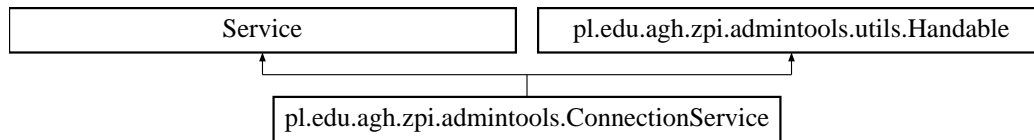
The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/common/config.h
- D:/Programowanie/Projekty/ZPI/common/configWin.h
- D:/Programowanie/Projekty/ZPI/common/config.cpp
- D:/Programowanie/Projekty/ZPI/common/configWin.cpp

5.9 pl.edu.agh.zpi.admintools.ConnectionService Class Reference

Service for handling connection events and messages.

Inheritance diagram for pl.edu.agh.zpi.admintools.ConnectionService:



Public Member Functions

- [ConnectionService](#) ()
Default constructor, calling super constructor.
- void [onCreate](#) ()
Executed on service creation.
- IBinder [onBind](#) (Intent intent)
Execute on service bind.
- void [handleMessage](#) (Message msg)
Handle incoming connection message.
- boolean [onUnbind](#) (Intent intent)
Execute on service unbinding.
- void [onDestroy](#) ()
Execute on service destruction.

Static Public Attributes

- static final String [MESSENGER](#) = "pl.edu.agh.zpi.admintools.ConnectionService.MESSENGER"
Full service MESSENGER path.
- static final int [GET_MESSENGER](#) = 0
Get messenger message type.
- static final int [GENERATE_KEY](#) = 1
Generate key message type.
- static final int [CONNECT](#) = 2
Connect message type.
- static final int [DISCONNECT](#) = 3
Disconnect message type.
- static final int [SEND_CONFIG](#) = 4
Send configuration message type.
- static final int [STOP](#) = 5
Stop message type.
- static final int [REQUEST_CONFIG](#) = 6
Request configuration message type.
- static final int [SET_INTERVAL](#) = 7
Set interval message type.
- static final int [STATS_REQUEST](#) = 8
Stats request message type.
- static final String [NAME](#) = "pl.edu.agh.zpi.admintools.ConnectionService"
Full connection service class name.

5.9.1 Detailed Description

Service for handling connection events and messages.

5.9.2 Member Function Documentation

5.9.2.1 `public void pl.edu.agh.zpi.admintools.ConnectionService.handleMessage (Message msg) [inline]`

Handle incoming connection message.

Returns

None.

Implements [pl.edu.agh.zpi.admintools.utils.Handable](#).

5.9.2.2 `public IBinder pl.edu.agh.zpi.admintools.ConnectionService.onBind (Intent intent) [inline]`

Execute on service bind.

Returns

New binder.

5.9.2.3 `public void pl.edu.agh.zpi.admintools.ConnectionService.onCreate () [inline]`

Executed on service creation.

Returns

None.

5.9.2.4 `public void pl.edu.agh.zpi.admintools.ConnectionService.onDestroy () [inline]`

Execute on service destruction.

Returns

None.

5.9.2.5 `public boolean pl.edu.agh.zpi.admintools.ConnectionService.onUnbind (Intent intent) [inline]`

Execute on service unbinding.

Returns

If succeeded.

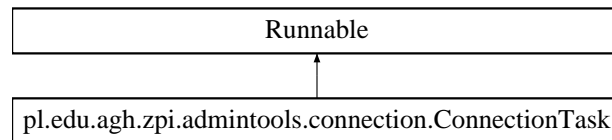
The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/ConnectionService.java`

5.10 `pl.edu.agh.zpi.admintools.connection.ConnectionTask` Class Reference

Handle connection events.

Inheritance diagram for `pl.edu.agh.zpi.admintools.connection.ConnectionTask`:



Classes

- enum **State**

Public Member Functions

- void `run` ()
Start connection task handling routine in different thread.
- synchronized void `connect` (String host, int port, String key, short interval)
Connect to given host using auth key.
- void `disconnect` ()
Disconnect from connected host.
- void `stop` ()
Stop connection task handling routine.
- synchronized boolean `isConnected` ()
- void `setMessenger` (Messenger activityMessenger)
Set current activity messenger.
- void `enqueueMessage` (IPacket packet)
Add packet to queue.

Static Public Attributes

- static final int `CONNECTED` = 0
Connected callback flag.
- static final int `AGENTS_DATA` = 1
Agents data callback flag.
- static final int `AGENT_KEY` = 2
Agent authentication key callback flag.
- static final int `AGENT_CONFIG` = 3
Agent configuration callback flag.
- static final int `CONNECTION_ERROR` = 4
Connection error callback flag.
- static final int `STATS_REPLY` = 5
Stats reply callback flag.
- static final int `AUTH_FAILED` = 6
Authentication failed flag.

5.10.1 Detailed Description

Handle connection events.

5.10.2 Member Function Documentation

5.10.2.1 `public synchronized void pl.edu.agh.zpi.admintools.connection.ConnectionTask.connect (String host, int port, String key, short interval) [inline]`

Connect to given host using auth key.

Parameters

<i>host</i>	Host address.
<i>port</i>	Host port.
<i>key</i>	Agent authentication key.
<i>interval</i>	Time interval.

Returns

None.

5.10.2.2 public void pl.edu.agh.zpi.admintools.connection.ConnectionTask.disconnect () [inline]

Disconnect from connected host.

Returns

None.

5.10.2.3 public void pl.edu.agh.zpi.admintools.connection.ConnectionTask.enqueueMessage (IPacket *packet*) [inline]

Add packet to queue.

Parameters

<i>packet</i>	Packet to add.
---------------	----------------

Returns

None.

5.10.2.4 public void pl.edu.agh.zpi.admintools.connection.ConnectionTask.run () [inline]

Start connection task handling routine in different thread.

Returns

None.

5.10.2.5 public void pl.edu.agh.zpi.admintools.connection.ConnectionTask.setMessenger (Messenger *activityMessenger*) [inline]

Set current activity messenger.

Parameters

<i>activity-Messenger</i>	Messenger to set.
---------------------------	-------------------

Returns

None.

5.10.2.6 public void pl.edu.agh.zpi.admintools.connection.ConnectionTask.stop () [inline]

Stop connection task handling routine.

Returns

None.

The documentation for this class was generated from the following file:

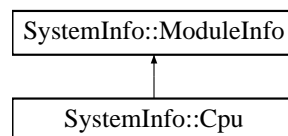
- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/ConnectionTask.java

5.11 SystemInfo::Cpu Class Reference

Contains [Cpu](#) related information (times, cpu model details).

```
#include <Cpu.h>
```

Inheritance diagram for SystemInfo::Cpu:



Classes

- struct [Details](#)
Represents basic Cpu/core information (vendor, mhz etc.).
- struct [Times](#)
Represents times that [Cpu](#) used on various operations and states.

Public Member Functions

- [Cpu](#) ()
Default constructor, initialize general times information and core times / details info.
- void [displayCombinedInfo](#) ()
Display all information about cpu/cores using standard output (std::cout).
- void [displayTimesInfo](#) ([Times](#) *times)
Display information about times using standard output (std::cout).
- void [displayDetailsInfo](#) ([Details](#) *details)
Display information about details using standard output (std::cout).

Public Attributes

- [Times](#) * [generalTimes](#)
[Times](#) combined with all the cores.
- std::vector< [Times](#) * > [coreTimes](#)
[Times](#) information per core.
- std::vector< [Details](#) * > [coreDetails](#)
Model [Details](#) per core.

5.11.1 Detailed Description

Contains [Cpu](#) related information (times, cpu model details).

5.11.2 Member Function Documentation

5.11.2.1 void SystemInfo::Cpu::displayCombinedInfo () [inline], [virtual]

Display all information about cpu/cores using standard output (std::cout).

Returns

None

Implements [SystemInfo::ModuleInfo](#).

5.11.2.2 void SystemInfo::Cpu::displayDetailsInfo (Details * details) [inline]

Display information about details using standard output (std::cout).

Returns

None

5.11.2.3 void SystemInfo::Cpu::displayTimesInfo (Times * times) [inline]

Display information about times using standard output (std::cout).

Returns

None

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/Cpu.h

5.12 DB Class Reference

Database handler. Uses SQLite.

```
#include <db.h>
```

Static Public Member Functions

- static bool [open](#) (const string &path)
Open file with database.
- static bool [createTables](#) ()
Creates initial tables.
- static bool [generateNewKey](#) (char key[16])
Generate new key for agent.
- static bool [findAgentByKey](#) (const char key[16], [TDBAgent](#) &agent)
Find agent with given key.

- static bool [findAgentById](#) (uint16_t id, [TDBAgent](#) &agent)
Find agent with given id.
- static bool [updateAgent](#) (const [TDBAgent](#) &agent)
Update agent data based on id inside.
- static bool [insertRecord](#) (int agentId, const [TSensorsData](#) &data)
Insert data from sensors connected to agent with given id.
- static bool [insertRecord](#) (const [TDBAgent](#) &agent, const [TSensorsData](#) &data)
Insert data from sensors connected to given agent.
- static bool [insertRecords](#) (int agentId, const vector< [TSensorsData](#) > &data)
Insert many data from sensors connected to given agent id.
- static bool [insertRecords](#) (const [TDBAgent](#) &agent, const vector< [TSensorsData](#) > &data)
Insert many data from sensors connected to given agent.
- static bool [getRecords](#) (int agentId, uint32_t startDate, uint32_t endDate, vector< [TSensorsRecord](#) > &records)
Get sensors data for given agent id based on time interval.
- static bool [cleanup](#) ()
Remove old records from database.

Static Public Attributes

- static sqlite3 * [db](#)
Current database handle.

5.12.1 Detailed Description

Database handler. Uses SQLite.

5.12.2 Member Function Documentation

5.12.2.1 static bool DB::createTables () [static]

Creates initial tables.

Returns

If succeeded.

5.12.2.2 static bool DB::findAgentById (uint16_t id, [TDBAgent](#) & agent) [static]

Find agent with given id.

Parameters

in	<i>id</i>	Agent id to check.
out	<i>agent</i>	Agent data.

Returns

If succeeded.

5.12.2.3 static bool DB::findAgentByKey (const char key[16], [TDBAgent](#) & agent) [static]

Find agent with given key.

Parameters

in	<i>key</i>	Key to check.
out	<i>agent</i>	Agent data.

Returns

If succeeded.

5.12.2.4 static bool DB::generateNewKey (char *key*[16]) [static]

Generate new key for agent.

Parameters

out	<i>key</i>	Table with key.
-----	------------	-----------------

Returns

If succeeded.

5.12.2.5 static bool DB::getRecords (int *agentId*, uint32_t *startDate*, uint32_t *endDate*, vector< TSensorsRecord > & *records*) [static]

Get sensors data for given agent id based on time interval.

Parameters

in	<i>agentId</i>	Agent-owner of sensors data.
in	<i>startDate</i>	Interval start time.
in	<i>endDate</i>	Interval end time.
out	<i>records</i>	Filtered sensors datas.

5.12.2.6 static bool DB::insertRecord (int *agentId*, const TSensorsData & *data*) [static]

Insert data from sensors connected to agent with given id.

Parameters

<i>agentId</i>	Agent-owner of sensors data.
<i>data</i>	Sensors data.

Returns

If succeeded.

5.12.2.7 static bool DB::insertRecord (const TDBAgent & *agent*, const TSensorsData & *data*) [inline], [static]

Insert data from sensors connected to given agent.

Parameters

<i>agent</i>	Agent-owner of sensors data.
<i>data</i>	Sensors data.

Returns

If succeeded.

5.12.2.8 `static bool DB::insertRecords (int agentId, const vector< TSensorsData > & data)` `[static]`

Insert many data from sensors connected to given agent id.

Parameters

<i>agentId</i>	Agent-owner of sensors datas.
<i>data</i>	List of sensors datas.

Returns

If succeeded.

5.12.2.9 `static bool DB::insertRecords (const TDBAgent & agent, const vector< TSensorsData > & data)`
`[inline],[static]`

Insert many data from sensors connected to given agent.

Parameters

<i>agent</i>	Agent-owner of sensors datas.
<i>data</i>	List of sensors datas.

Returns

If succeeded.

5.12.2.10 `static bool DB::open (const string & path)` `[static]`

Open file with database.

Parameters

<i>path</i>	Path pointing to database file.
-------------	---------------------------------

Returns

If succeeded.

5.12.2.11 `static bool DB::updateAgent (const TDBAgent & agent)` `[static]`

Update agent data based on id inside.

Parameters

<code>in</code>	<code>agent</code>	Agent data to update with existing agent id.
-----------------	--------------------	--

Returns

If succeeded.

The documentation for this class was generated from the following files:

- `D:/Programowanie/Projekty/ZPI/server/db.h`
- `D:/Programowanie/Projekty/ZPI/server/db.cpp`

5.13 SystemInfo::Cpu::Details Struct Reference

Represents basic Cpu/core information (vendor, mhz etc.).

```
#include <Cpu.h>
```

Public Member Functions

- [Details](#) ()
Default constructor, zeroes details variables.

Public Attributes

- `std::string` [vendor](#)
Vendor name.
- `std::string` [model](#)
Cpu model.
- `uint16` [mhz](#)
Clock rate in MHZ.
- `uint64` [cache_size](#)
Cache size in bits.
- `uint16` [total_sockets](#)
Total number of available sockets.
- `uint16` [total_cores](#)
Total number of available cores.
- `uint16` [cores_per_socket](#)
Number of cores per available sockets.

5.13.1 Detailed Description

Represents basic Cpu/core information (vendor, mhz etc.).

The documentation for this struct was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/Cpu.h`

5.14 SystemInfo::FileSystem::Details Struct Reference

General information about device/disk.

```
#include <FileSystem.h>
```

Public Member Functions

- [Details](#) ()
Default constructor, initialize general directory/device information.

Public Attributes

- `std::string` [dir](#)
Directory name.
- `std::string` [dev](#)
Device name.
- `std::string` [type](#)
Device type.
- `std::string` [sys_type](#)
Device system type.
- `std::string` [options](#)
Additional options.
- `std::string` [fsType](#)
File system type.
- `uint32` [flags](#)
Additional flags.

5.14.1 Detailed Description

General information about device/disk.

The documentation for this struct was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/FileSystem.h`

5.15 SystemInfo::DiagnosticMgr Class Reference

Singleton manager for information gathering and visualization.

```
#include <DiagnosticMgr.h>
```

Public Member Functions

- `Resources` * [getResourcesInfo](#) ()
Get informations about resources used and its limits.
- `Cpu` * [getCpuInfo](#) ()
Get informations about CPUs/Cores.
- `FileSystem` * [getFileSystemInfo](#) ()
Get informations about file system (HDD, virtual, external drives).

Static Public Member Functions

- static double [getCpuTemp](#) ()
Get CPU temepature.
- static [DiagnosticMgr](#) & [getInstance](#) ()
Get instance of [DiagnosticMgr](#) singleton class.

5.15.1 Detailed Description

Singleton manager for information gathering and visualization.

Simple wrapper around Sigar and WMI libraries.

5.15.2 Member Function Documentation

5.15.2.1 `Cpu * DiagnosticMgr::getCpuInfo ()`

Get informations about CPUs/Cores.

Returns

[Cpu](#) and cores informations.

5.15.2.2 `double SystemInfo::DiagnosticMgr::getCpuTemp () [static]`

Get CPU temepature.

Returns

Current CPU temperature in celsius degree.

5.15.2.3 `FileSystem * SystemInfo::DiagnosticMgr::getFileSystemInfo ()`

Get informations about file system (HDD, virtual, external drives).

Returns

[FileSystem](#) informations.

5.15.2.4 `static DiagnosticMgr& SystemInfo::DiagnosticMgr::getInstance () [inline],[static]`

Get instance of [DiagnosticMgr](#) singleton class.

Returns

Instance of [DiagnosticMgr](#).

5.15.2.5 `Resources * DiagnosticMgr::getResourcesInfo ()`

Get informations about resources used and its limits.

Returns

[Resources](#) informations.

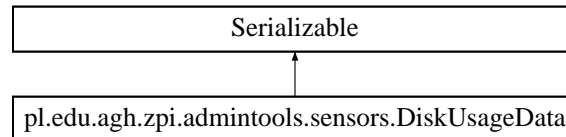
The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/DiagnosticMgr.h
- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/DiagnosticMgr.cpp

5.16 pl.edu.agh.zpi.admintools.sensors.DiskUsageData Class Reference

Disc usage data structure as serializable POJO.

Inheritance diagram for pl.edu.agh.zpi.admintools.sensors.DiskUsageData:



Public Member Functions

- String [getName](#) ()
Get disc name.
- long [getTotalSpace](#) ()
Get total available space on disc.
- long [getUsedSpace](#) ()
Get used space on disc.
- String [toString](#) ()
Convert [DiskUsageData](#) to string representation.

Static Public Member Functions

- static [DiskUsageData fromByteBuffer](#) (ByteBuffer buffer)
Fill disc usage data with given byte buffer.

5.16.1 Detailed Description

Disc usage data structure as serializable POJO.

5.16.2 Member Function Documentation

5.16.2.1 `public static DiskUsageData pl.edu.agh.zpi.admintools.sensors.DiskUsageData.fromByteBuffer (ByteBuffer buffer) [inline],[static]`

Fill disc usage data with given byte buffer.

Parameters

<i>buffer</i>	Byte buffer with disc usage.
---------------	------------------------------

Returns

Converted [DiskUsageData](#) object.

5.16.2.2 `public String pl.edu.agh.zpi.admintools.sensors.DiskUsageData.getName () [inline]`

Get disc name.

Returns

Disc name.

5.16.2.3 `public long pl.edu.agh.zpi.admintools.sensors.DiskUsageData.getTotalSpace () [inline]`

Get total available space on disc.

Returns

Total space.

5.16.2.4 `public long pl.edu.agh.zpi.admintools.sensors.DiskUsageData.getUsedSpace () [inline]`

Get used space on disc.

Returns

Used space.

5.16.2.5 `public String pl.edu.agh.zpi.admintools.sensors.DiskUsageData.toString () [inline]`

Convert [DiskUsageData](#) to string representation.

Returns

String representation.

The documentation for this class was generated from the following file:

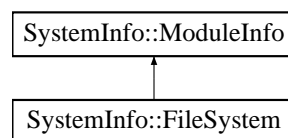
- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/DiskUsageData.-java`

5.17 SystemInfo::FileSystem Class Reference

Class contains file system informations.

```
#include <FileSystem.h>
```

Inheritance diagram for SystemInfo::FileSystem:



Classes

- struct [Details](#)
General information about device/disk.
- struct [Usage](#)
Informations about usage of directory/devie.

Public Member Functions

- [FileSystem](#) ()
Default constructor, initialize sub-structures for details/usage information.
- void [displayCombinedInfo](#) ()
Display all informations about file system on standard output (std::cout)
- void [displayDetailsInfo](#) ([Details](#) *details)
Display informations from [Details](#) struct over standard output (std::cout)
- void [displayUsageInfo](#) ([Usage](#) *usage)
Display informations from [Usage](#) struct over standard output (std::cout)

Static Public Member Functions

- static std::string [getFullFsTypeName](#) (sigar_file_system_type_e type)
Map file system type to human-readable string.

Public Attributes

- std::vector< [Details](#) * > [dirDetails](#)
List of details per directory.
- std::vector< [Usage](#) * > [dirUsages](#)
List with usage information for every disc.

5.17.1 Detailed Description

Class contains file system informations.

5.17.2 Member Function Documentation

5.17.2.1 void [SystemInfo::FileSystem::displayCombinedInfo](#) () [[inline](#)],[[virtual](#)]

Display all informations about file system on standard output (std::cout)

Returns

None

Implements [SystemInfo::ModuleInfo](#).

5.17.2.2 void [SystemInfo::FileSystem::displayDetailsInfo](#) ([Details](#) * *details*) [[inline](#)]

Display informations from [Details](#) struct over standard output (std::cout)

Returns

None

5.17.2.3 void [SystemInfo::FileSystem::displayUsageInfo](#) ([Usage](#) * *usage*) [[inline](#)]

Display informations from [Usage](#) struct over standard output (std::cout)

Returns

None

5.17.2.4 SystemInfo::FileSystem::getFullFsTypeName (sigar_file_system_type_e type) [inline],[static]

Map file system type to human-readable string.

Returns

Human-readable file system type

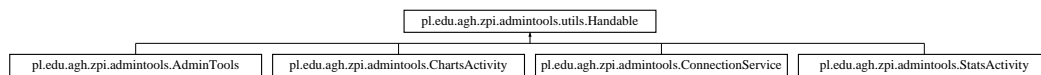
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/FileSystem.h

5.18 pl.edu.agh.zpi.admintools.utils.Handable Interface Reference

Used by handlers able to handle incoming message.

Inheritance diagram for pl.edu.agh.zpi.admintools.utils.Handable:



Public Member Functions

- void [handleMessage](#) (Message msg)
Handle incoming message.

5.18.1 Detailed Description

Used by handlers able to handle incoming message.

5.18.2 Member Function Documentation

5.18.2.1 public void pl.edu.agh.zpi.admintools.utils.Handable.handleMessage (Message msg)

Handle incoming message.

Parameters

<i>msg</i>	Message to handle.
------------	--------------------

Returns

None.

Implemented in [pl.edu.agh.zpi.admintools.AdminTools](#), [pl.edu.agh.zpi.admintools.StatsActivity](#), [pl.edu.agh.zpi.admintools.ChartsActivity](#), and [pl.edu.agh.zpi.admintools.ConnectionService](#).

The documentation for this interface was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/utils/Handable.java

5.19 pl.edu.agh.zpi.admintools.connection.Header Class Reference

Packet header configuration and utility functions.

Public Member Functions

- [Header](#) ()
Default constructor, do nothing.
- [Header](#) (byte type, short size)
Constructor, set header type and size.
- void [setData](#) (byte type, short size)
Set basic header data.
- void [setType](#) (byte type)
Set header type flag.
- void [setSize](#) (short size)
Set header size.
- byte [getType](#) ()
Get header type flag.
- short [getSize](#) ()
Get header size.
- byte[] [toByteArray](#) ()

Static Public Member Functions

- static [Header fromByteArray](#) (byte[] array)
Create new [Header](#) object from its byte representation.

Static Public Attributes

- static final int [HEADER_SIZE](#) = 3
[Header](#) size.
- static final byte [PACKET_AUTH](#) = 0
PacketAuthKey flag.
- static final byte [PACKET_REPLY](#) = 1
PacketReply flag.
- static final byte [PACKET_AGENT_DATA](#) = 2
Packet agent data flag.
- static final byte [PACKET_START](#) = 3
PacketStart flag.
- static final byte [PACKET_STOP](#) = 4
Packet stop flag.
- static final byte [PACKET_PING](#) = 5
Packet ping flag.
- static final byte [PACKET_AGENTS_DATA](#) = 6
PacketAgentsData flag.
- static final byte [PACKET_KEY_REQUEST](#) = 7
PacketKeyRequest flag.
- static final byte [PACKET_KEY_REPLY](#) = 8
PacketKeyReply flag.
- static final byte [PACKET_CONFIG](#) = 9
PacketConfig flag.
- static final byte [PACKET_CONFIG_REQUEST](#) = 10
PacketConfigRequest flag.
- static final byte [PACKET_CONFIG_REPLY](#) = 11

- Packet configuration reply flag.*
 - static final byte [PACKET_CHANGE_REQUEST](#) = 12
- Packet change request flag.*
 - static final byte [PACKET_CHANGE_REPLY](#) = 13
- Packet change reply flag.*
 - static final byte [PACKET_STATS_REQUEST](#) = 14
- PacketStatsRequest flag.*
 - static final byte [PACKET_STATS_REPLY](#) = 15
- PacketStatsReply flag.*

5.19.1 Detailed Description

Packet header configuration and utility functions.

5.19.2 Constructor & Destructor Documentation

5.19.2.1 `public pl.edu.agh.zpi.admintools.connection.Header.Header (byte type, short size)` `[inline]`

Constructor, set header type and size.

Parameters

<i>type</i>	Header type.
<i>size</i>	Header size.

5.19.3 Member Function Documentation

5.19.3.1 `public static Header pl.edu.agh.zpi.admintools.connection.Header.fromByteArray (byte[] array)` `[inline]`,
`[static]`

Create new [Header](#) object from its byte representation.

Parameters

<i>array</i>	Array of bytes with Header data to reproduce.
--------------	---

Returns

Instance of new [Header](#) object.

5.19.3.2 `public short pl.edu.agh.zpi.admintools.connection.Header.getSize ()` `[inline]`

Get header size.

Returns

[Header](#) size.

5.19.3.3 `public byte pl.edu.agh.zpi.admintools.connection.Header.getType ()` `[inline]`

Get header type flag.

Returns

[Header](#) type flag.

5.19.3.4 `public void pl.edu.agh.zpi.admintools.connection.Header.setData (byte type, short size)` `[inline]`

Set basic header data.

Parameters

<i>type</i>	Header type.
<i>size</i>	Header size.

Returns

None.

5.19.3.5 `public void pl.edu.agh.zpi.admintools.connection.Header.setSize (short size)` `[inline]`

Set header size.

Parameters

<i>size</i>	Header size.
-------------	------------------------------

Returns

None.

5.19.3.6 `public void pl.edu.agh.zpi.admintools.connection.Header.setType (byte type)` `[inline]`

Set header type flag.

Parameters

<i>type</i>	Header type flag.
-------------	-----------------------------------

Returns

None.

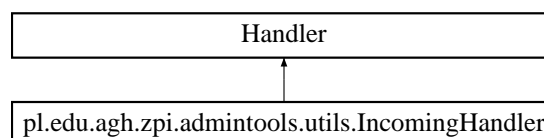
The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/Header.java`

5.20 `pl.edu.agh.zpi.admintools.utils.IncomingHandler` Class Reference

Incoming message handler.

Inheritance diagram for `pl.edu.agh.zpi.admintools.utils.IncomingHandler`:



Public Member Functions

- [IncomingHandler](#) ([Handable](#) handable)
Constructor, sets [Handable](#) msg handler.
- void [handleMessage](#) (Message msg)
Handle incoming message.

5.20.1 Detailed Description

Incoming message handler.

5.20.2 Constructor & Destructor Documentation

5.20.2.1 `public pl.edu.agh.zpi.admintools.utils.IncomingHandler.IncomingHandler (Handable handable) [inline]`

Constructor, sets [Handable](#) msg handler.

Parameters

<i>handable</i>	Handable handler.
-----------------	-----------------------------------

5.20.3 Member Function Documentation

5.20.3.1 `public void pl.edu.agh.zpi.admintools.utils.IncomingHandler.handleMessage (Message msg) [inline]`

Handle incoming message.

Parameters

<i>msg</i>	Message to handle.
------------	--------------------

Returns

None.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/utils/IncomingHandler.java

5.21 SystemInfo::InfoMapper Class Reference

Utils for easy Sigar to [SystemInfo](#) data mapping.

```
#include <InfoMapper.h>
```

Static Public Member Functions

- static [Cpu::Times](#) * [sigarCpuToCpuTimes](#) (sigar_cpu_t *cpuData)
Mapping cpu times data.
- static [Cpu::Details](#) * [sigarCpuInfoToDetails](#) (sigar_cpu_info_t *cpuData)
Mapping cpu info data.
- static [Resources](#) * [sigarResourcesLimitToResources](#) (sigar_resource_limit_t *resData)
Mapping resources limits data.

- static [FileSystem::Details](#) * [sigarFileSystemToFsDetails](#) (sigar_file_system_t *fsData)
Mapping file system data.
- static [FileSystem::Usage](#) * [sigarFileSystemUsageToFsUsage](#) (sigar_file_system_usage_t *fsData, std::string dirName)
Mapping file system usage data.

5.21.1 Detailed Description

Utils for easy Sigar to [SystemInfo](#) data mapping.

5.21.2 Member Function Documentation

5.21.2.1 static [Cpu::Details](#) * [SystemInfo::InfoMapper::sigarCpuInfoToDetails](#) (sigar_cpu_info_t * *cpuData*) [static]

Mapping cpu info data.

Parameters

<i>cpuData</i>	Sigar Cpu info data.
----------------	--------------------------------------

Returns

[Cpu::Details](#) data.

5.21.2.2 static [Cpu::Times](#) * [SystemInfo::InfoMapper::sigarCpuToCpuTimes](#) (sigar_cpu_t * *cpuData*) [static]

Mapping cpu times data.

Parameters

<i>cpuData</i>	Sigar Cpu times data.
----------------	---------------------------------------

Returns

[Cpu::Times](#) data.

5.21.2.3 [FileSystem::Details](#) * [SystemInfo::InfoMapper::sigarFileSystemToFsDetails](#) (sigar_file_system_t * *fsData*)
[static]

Mapping file system data.

Parameters

<i>fsData</i>	Sigar file system data.
---------------	-------------------------

Returns

[FileSystem::Details](#) data.

5.21.2.4 [FileSystem::Usage](#) * [SystemInfo::InfoMapper::sigarFileSystemUsageToFsUsage](#) (sigar_file_system_usage_t * *fsData*, std::string *dirName*) [static]

Mapping file system usage data.

Parameters

<i>fsData</i>	Sigar file system usage data.
<i>dirName</i>	Directory name.

Returns

[FileSystem::Usage](#) data.

5.21.2.5 `static Resources * SystemInfo::InfoMapper::sigarResourcesLimitToResources (sigar_resource_limit_t * resData)`
[static]

Mapping resources limits data.

Parameters

<i>resData</i>	Sigar resources data.
----------------	-----------------------

Returns

[Resources](#) data.

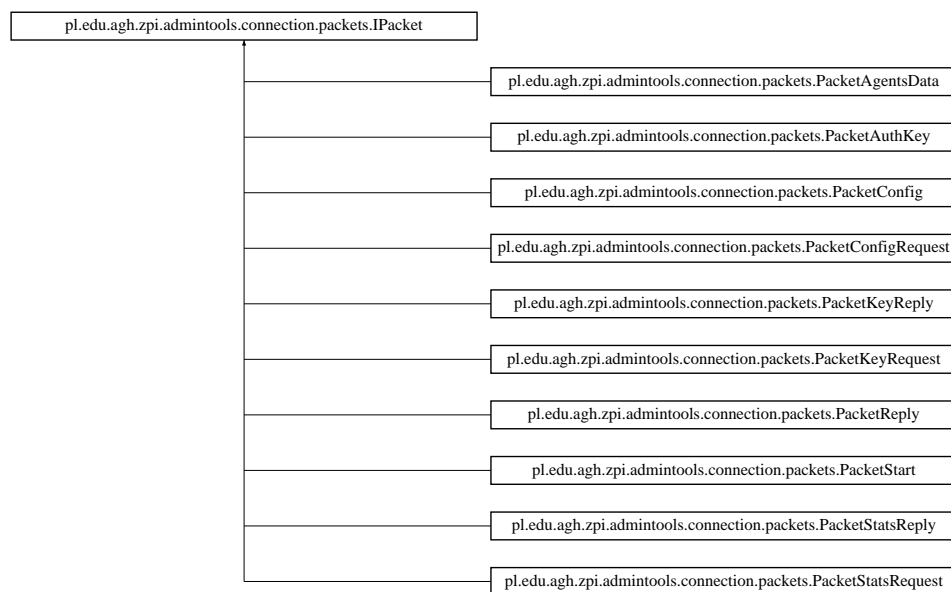
The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/InfoMapper.h
- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/InfoMapper.cpp

5.22 pl.edu.agh.zpi.admintools.connection.packets.IPacket Interface Reference

Packet data base interface.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.IPacket:



Public Member Functions

- `byte[] toByteArray ()`

- void [fromByteArray](#) (byte[] array)
Fill object with byte data.
- byte [getType](#) ()
Get packet type.

5.22.1 Detailed Description

Packet data base interface.

5.22.2 Member Function Documentation

5.22.2.1 public void IPacket.fromByteArray (byte[] array)

Fill object with byte data.

Parameters

in	array	Byte data as array.
----	-------	---------------------

Returns

None.

Implemented in [pl.edu.agh.zpi.admintools.connection.packets.PacketConfig](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketReply](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketStart](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply](#), and [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest](#).

5.22.2.2 public byte IPacket.getType ()

Get packet type.

Returns

Packet type.

Implemented in [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketConfig](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketReply](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketStart](#), [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply](#), and [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest](#).

The documentation for this interface was generated from the following file:

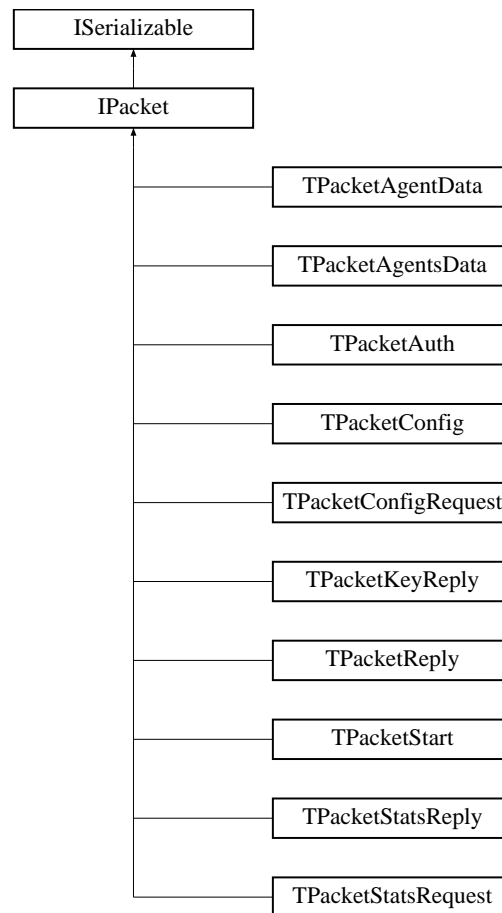
- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/IPacket.java

5.23 IPacket Class Reference

Packet data base class.

```
#include <packets.h>
```

Inheritance diagram for IPacket:



Public Member Functions

- virtual int [getType](#) ()=0
Get packet type.

Additional Inherited Members

5.23.1 Detailed Description

Packet data base class.

5.23.2 Member Function Documentation

5.23.2.1 int IPacket::getType () [pure virtual]

Get packet type.

Returns

Packet type.

Implemented in [TPacketStatsReply](#), [TPacketStatsRequest](#), [TPacketConfigRequest](#), [TPacketConfig](#), [TPacketKeyReply](#), [TPacketAgentsData](#), [TPacketAgentData](#), [TPacketStart](#), [TPacketReply](#), and [TPacketAuth](#).

The documentation for this class was generated from the following file:

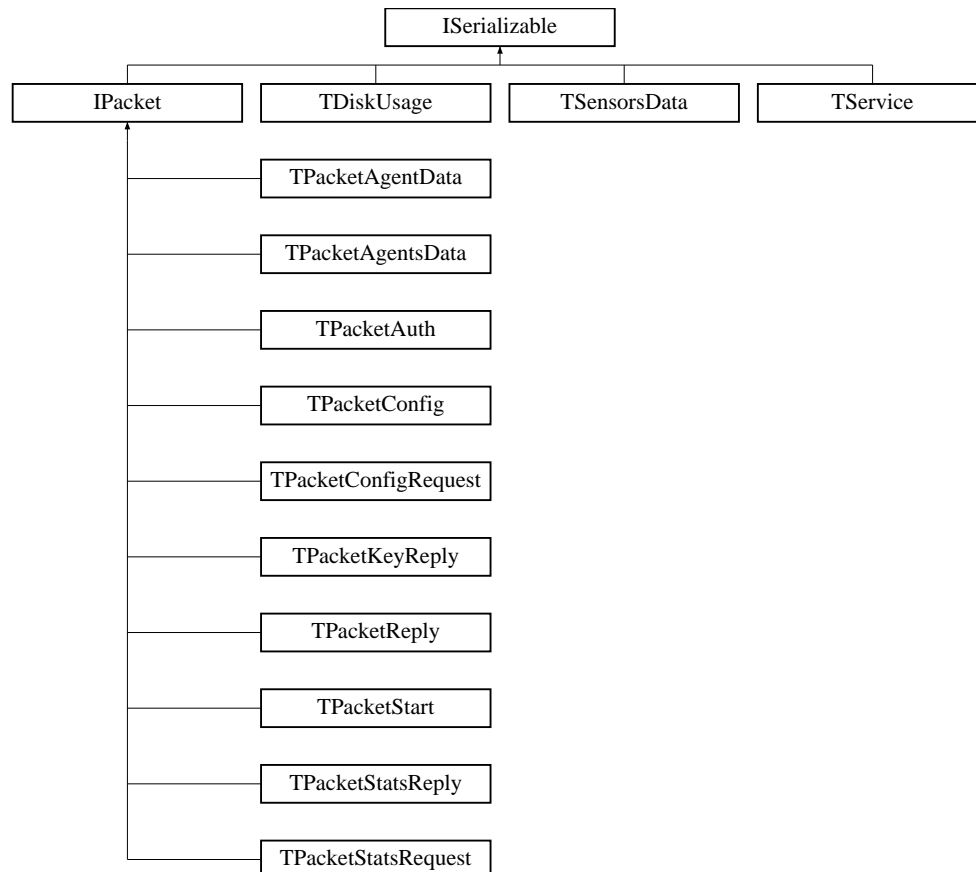
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.24 ISerializable Interface Reference

Object able to serialize himself into/from `buffer_t` class.

```
#include <common.h>
```

Inheritance diagram for ISerializable:



Public Member Functions

- virtual void `toBuffer` (`buffer_t` &buf)=0
Convert object to byte buffer.
- virtual bool `fromBuffer` (`buffer_t` &buf)=0
Fill object data with given buffer.
- template<typename T >
bool `append` (`buffer_t` &buf, T &val)
Append parametrized value to end of buffer.
- bool `append` (`buffer_t` &buf, string &val)
Append string to end of buffer.
- template<typename T >
bool `fetch` (`buffer_t` &buf, T &val)
Fetch parametrized data from buffer last position.

- bool `fetch` (`buffer_t` &buf, string &val)
Fetch string from buffer last position.

Protected Attributes

- int `m_pos`
Buffer cursor.

5.24.1 Detailed Description

Object able to serialize himself into/from `buffer_t` class.

5.24.2 Member Function Documentation

5.24.2.1 `template<typename T > template< typename T > bool ISerializable::append (buffer_t & buf, T & val)`
[inline]

Append parametrized value to end of buffer.

Parameters

out	<i>buf</i>	Target buffer.
in	<i>val</i>	Value to append.

Returns

If succeeded.

5.24.2.2 `bool ISerializable::append (buffer_t & buf, string & val)` [inline]

Append string to end of buffer.

Parameters

out	<i>buf</i>	Target buffer.
in	<i>val</i>	String to append.

Returns

If succeeded.

5.24.2.3 `template<typename T > template< typename T > bool ISerializable::fetch (buffer_t & buf, T & val)` [inline]

Fetch parametrized data from buffer last position.

Parameters

in	<i>buf</i>	Source buffer.
out	<i>val</i>	Fetches value.

Returns

If succeeded.

5.24.2.4 `bool ISerializable::fetch (buffer_t & buf, string & val)` `[inline]`

Fetch string from buffer last position.

Parameters

in	buf	Source buffer.
out	val	Fetches string.

Returns

If succeeded.

5.24.2.5 bool ISerializable::fromBuffer (buffer_t & buf) [pure virtual]

Fill object data with given buffer.

Parameters

in	buf	Buffer with object data.
----	-----	--------------------------

Returns

If succeeded.

Implemented in [TPacketStatsReply](#), [TPacketStatsRequest](#), [TPacketConfigRequest](#), [TPacketConfig](#), [TPacketKeyReply](#), [TPacketAgentsData](#), [TPacketAgentData](#), [TPacketStart](#), [TPacketReply](#), [TSensorsData](#), [TPacketAuth](#), [TService](#), and [TDiskUsage](#).

5.24.2.6 void ISerializable::toBuffer (buffer_t & buf) [pure virtual]

Convert object to byte buffer.

Parameters

out	buf	Byte buffer representation of object.
-----	-----	---------------------------------------

Returns

None.

Implemented in [TPacketStatsReply](#), [TPacketStatsRequest](#), [TPacketConfigRequest](#), [TPacketConfig](#), [TPacketKeyReply](#), [TPacketAgentsData](#), [TPacketAgentData](#), [TPacketStart](#), [TPacketReply](#), [TSensorsData](#), [TPacketAuth](#), [TService](#), and [TDiskUsage](#).

The documentation for this interface was generated from the following file:

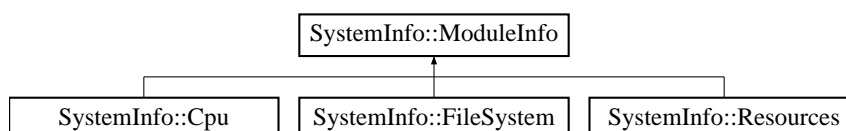
- D:/Programowanie/Projekty/ZPI/common/common.h

5.25 SystemInfo::ModuleInfo Class Reference

Pure abstract class for module info ([Cpu](#), Memory etc.).

```
#include <ModuleInfo.h>
```

Inheritance diagram for SystemInfo::ModuleInfo:



Public Member Functions

- virtual void [displayCombinedInfo](#) ()=0
Display full informations from module instance.
- void [displayModuleHeader](#) (std::string name)
Display given module header using standard output (std::cout).
- void [displayGroupHeader](#) (std::string name)
Display given group header using standard output (std::cout).
- template<typename T >
void [displaySingleInfo](#) (std::string description, T value)
Display single information as pair of label and parameterized value.
- template<typename T , typename V >
void [displayPairInfo](#) (std::string description, T current, V max)
Display single information as pair of label and parameterized pair value of current/max status.

5.25.1 Detailed Description

Pure abstract class for module info ([Cpu](#), Memory etc.).

Provides method for easy displaying / forming system informations.

5.25.2 Member Function Documentation

5.25.2.1 void SystemInfo::ModuleInfo::displayCombinedInfo () [pure virtual]

Display full informations from module instance.

Returns

None.

Implemented in [SystemInfo::FileSystem](#), [SystemInfo::Cpu](#), and [SystemInfo::Resources](#).

5.25.2.2 void SystemInfo::ModuleInfo::displayGroupHeader (std::string name) [inline]

Display given group header using standard output (std::cout).

Parameters

<i>name</i>	Group header to display.
-------------	--------------------------

Returns

None.

5.25.2.3 void SystemInfo::ModuleInfo::displayModuleHeader (std::string name) [inline]

Display given module header using standard output (std::cout).

Parameters

<i>name</i>	Header to display.
-------------	--------------------

Returns

None.

5.25.2.4 `template<typename T , typename V > template< typename T, typename V > void SystemInfo::ModuleInfo::displayPairInfo (std::string description, T current, V max) [inline]`

Display single information as pair of label and parameterized pair value of current/max status.

Parameters

<i>description</i>	Description label for value.
<i>current</i>	Parameterized current value to display.
<i>max</i>	Parameterized maximum value to display.

Returns

None.

5.25.2.5 `template<typename T > template< typename T > void SystemInfo::ModuleInfo::displaySingleInfo (std::string description, T value) [inline]`

Display single information as pair of label and parameterized value.

Parameters

<i>description</i>	Description label for value.
<i>value</i>	Parameterized value to display.

Returns

None;

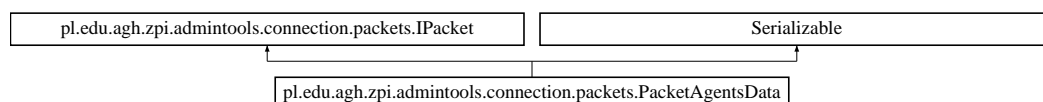
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/ModuleInfo.h

5.26 pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData Class Reference

Combined agents data.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData:

**Public Member Functions**

- [PacketAgentsData \(\)](#)
Default constructor, do nothing.

- [AgentData](#)[] **getAgentsArray** ()
- ArrayList< [AgentData](#) > **getAgentsList** ()
Get all agents data as array list.
- byte[] **toByteArray** ()
- void **fromByteArray** (byte[] array)
Fill object with byte data.
- byte **getType** ()
Get packet type.
- String **toString** ()
Human readable string representation of packet.

Static Public Attributes

- static final String [PACKET_AGENTS_DATA](#) = "pl.edu.agh.zpi.admintools.connection.packets.PACKET_AGENTS_DATA"
Packet full class type.

5.26.1 Detailed Description

Combined agents data.

5.26.2 Member Function Documentation

5.26.2.1 void [pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData.fromByteArray](#) (byte[] array) [inline]

Fill object with byte data.

Parameters

in	array	Byte data as array.
----	-------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.26.2.2 public ArrayList< [AgentData](#) > [pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData.getAgentsList](#) () [inline]

Get all agents data as array list.

Returns

Array list of agents data.

5.26.2.3 byte [pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData.getType](#) () [inline]

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.26.2.4 `public String pl.edu.agh.zpi.admintools.connection.packets.PacketAgentsData.toString () [inline]`

Human readable string representation of packet.

Returns

Packet as string.

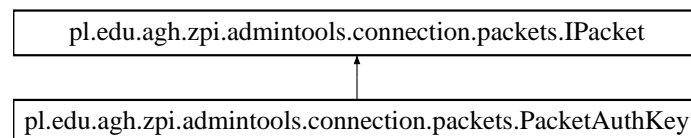
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PackageAgentsData.java

5.27 pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey Class Reference

Authentication packet.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey:



Public Member Functions

- `PacketAuthKey ()`
Default constructor, do nothing.
- `PacketAuthKey (byte[] key, boolean sendConfig)`
Constructor, sets key and config flag.
- `byte[] getKey ()`
- `void setKey (byte[] key)`
Set current authentication key.
- `byte[] toByteArray ()`
- `void fromByteArray (byte[] array)`
Fill object with byte data.
- `byte getType ()`
Get packet type.

5.27.1 Detailed Description

Authentication packet.

5.27.2 Constructor & Destructor Documentation

5.27.2.1 `public pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey.PacketAuthKey (byte[] key, boolean sendConfig) [inline]`

Constructor, sets key and config flag.

Parameters

<i>key</i>	Authentication key.
<i>sendConfig</i>	Send config flag.

5.27.3 Member Function Documentation

5.27.3.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey.fromByteArray (byte[] array) [inline]`

Fill object with byte data.

Parameters

<i>in</i>	<i>array</i>	Byte data as array.
-----------	--------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.27.3.2 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey.getType () [inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.27.3.3 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketAuthKey.setKey (byte[] key) [inline]`

Set current authentication key.

Parameters

<i>key</i>	Auth key.
------------	-----------

Returns

None.

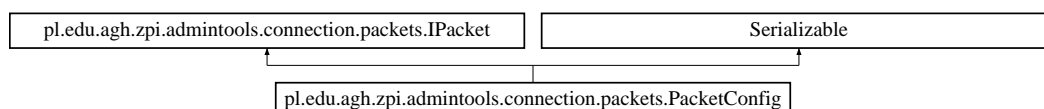
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PackageAuthKey.java

5.28 pl.edu.agh.zpi.admintools.connection.packets.PacketConfig Class Reference

Agent configuration.

Inheritance diagram for `pl.edu.agh.zpi.admintools.connection.packets.PacketConfig`:



Public Member Functions

- [PacketConfig](#) ()
Default constructor, do nothing.
- [PacketConfig](#) (short agentId, String tempPath, short tempDivider, ArrayList< [ServiceConfig](#) > servicesConfig, short interval, String name)
Constructor, set variables value from given parameters.
- byte[] [toByteArray](#) ()
- void [fromByteArray](#) (byte[] array)
Fill object with byte data.
- void [addServiceConfig](#) ([ServiceConfig](#) sc)
Add single service configuration.
- byte [getType](#) ()
Get packet type.
- short [getAgentId](#) ()
Get agent id.
- String [getTempPath](#) ()
Get temperature path.
- short [getTempDivider](#) ()
Get temperature divider.
- ArrayList< [ServiceConfig](#) > [getServicesConfig](#) ()
Get whole services configuration list.
- short [getInterval](#) ()
Get agent time interval.
- String [getName](#) ()
Get agent name.
- String [toString](#) ()
Human readable string representation of packet.

Static Public Attributes

- static final String [PACKET_CONFIG](#) = "pl.edu.agh.zpi.admintools.connection.packets.PACKET_CONFIG"
Packet full class type.

5.28.1 Detailed Description

Agent configuration.

5.28.2 Constructor & Destructor Documentation

5.28.2.1 `public pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.PacketConfig (short agentId, String tempPath, short tempDivider, ArrayList< ServiceConfig > servicesConfig, short interval, String name) [inline]`

Constructor, set variables value from given parameters.

Parameters

<i>agentId</i>	Agent id.
----------------	-----------

<i>tempPath</i>	Temperature path.
<i>tempDivider</i>	Temperature divider.
<i>servicesConfig</i>	List of services configuration.
<i>interval</i>	Time interval.
<i>name</i>	Agent name.

5.28.3 Member Function Documentation

5.28.3.1 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.addServiceConfig (ServiceConfig sc)`
`[inline]`

Add single service configuration.

Parameters

<i>sc</i>	Service configuration data.
-----------	-----------------------------

Returns

None.

5.28.3.2 `void pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.fromByteArray (byte[] array)` `[inline]`

Fill object with byte data.

Parameters

<i>in</i>	<i>array</i>	Byte data as array.
-----------	--------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.28.3.3 `public short pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getAgentId ()` `[inline]`

Get agent id.

Returns

Agent id.

5.28.3.4 `public short pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getInterval ()` `[inline]`

Get agent time interval.

Returns

Time interval.

5.28.3.5 `public String pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getName () [inline]`

Get agent name.

Returns

Agent name.

5.28.3.6 `public ArrayList< ServiceConfig > pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getServicesConfig () [inline]`

Get whole services configuration list.

Returns

Services configuration list.

5.28.3.7 `public short pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getTempDivider () [inline]`

Get temperature divider.

Returns

Temperature divider.

5.28.3.8 `public String pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getTempPath () [inline]`

Get temperature path.

Returns

Temperature path.

5.28.3.9 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.getType () [inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.28.3.10 `public String pl.edu.agh.zpi.admintools.connection.packets.PacketConfig.toString () [inline]`

Human readable string representation of packet.

Returns

Packet as string.

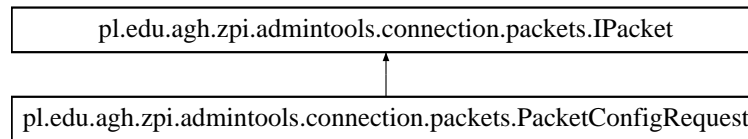
The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketConfig.java`

5.29 pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest Class Reference

Requet for agent configuration.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest:



Public Member Functions

- [PacketConfigRequest \(\)](#)
Default constructor, do nothing.
- [PacketConfigRequest \(short agentId\)](#)
Constructor, set agent id.
- [byte\[\] toByteArray \(\)](#)
- [void fromByteArray \(byte\[\] array\)](#)
Fill object with byte data.
- [short getAgentId \(\)](#)
Get agent id.
- [byte getType \(\)](#)
Get packet type.

Static Public Attributes

- [static final String ID = "pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.id"](#)
Packet full class type.

5.29.1 Detailed Description

Requet for agent configuration.

5.29.2 Constructor & Destructor Documentation

5.29.2.1 `public pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.PacketConfigRequest (short agentId)`
`[inline]`

Constructor, set agent id.

Parameters

<i>agentId</i>	Agent id value.
----------------	-----------------

5.29.3 Member Function Documentation

5.29.3.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.fromByteArray (byte[] array)`
`[inline]`

Fill object with byte data.

Parameters

in	array	Byte data as array.
----	-------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.29.3.2 `public short pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.getAgentId () [inline]`

Get agent id.

Returns

Agent id.

5.29.3.3 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.getType () [inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

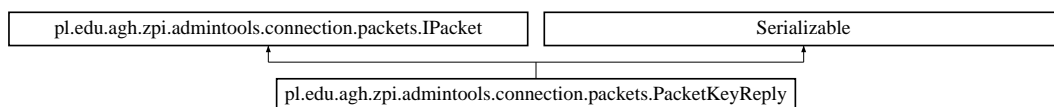
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketConfigRequest.java

5.30 pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply Class Reference

Packet with authentication key.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply:



Public Member Functions

- [PacketKeyReply](#) ()
Default constructor, do nothing.
- `byte[]` [toByteArray](#) ()
- `void` [fromByteArray](#) (`byte[]` array)
Fill object with byte data.
- `byte` [getType](#) ()
Get packet type.
- `String` [toString](#) ()
Human readable string representation of packet.

Static Public Attributes

- static final String [PACKET_KEY_REPLY](#) = "pl.edu.agh.zpi.admintools.connection.packets.PACKET_KEY_REPLY"

Packet full class type.

5.30.1 Detailed Description

Packet with authentication key.

5.30.2 Member Function Documentation

5.30.2.1 void [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply.fromByteArray](#) ([byte\[\] array](#)) [[inline](#)]

Fill object with byte data.

Parameters

in	array	Byte data as array.
--------------------	-----------------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.30.2.2 byte [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply.getType](#) () [[inline](#)]

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.30.2.3 public String [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyReply.toString](#) () [[inline](#)]

Human readable string representation of packet.

Returns

Packet as string.

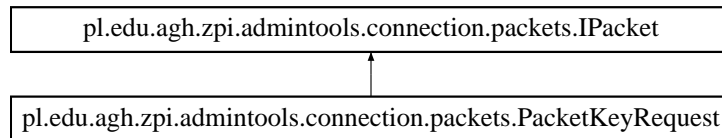
The documentation for this class was generated from the following file:

- [D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PackageKeyReply.java](#)

5.31 [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest](#) Class Reference

Packet request for authentication key.

Inheritance diagram for [pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest](#):



Public Member Functions

- [PacketKeyRequest \(\)](#)
Default constructor, do nothing.
- [byte\[\] toByteArray \(\)](#)
- [void fromByteArray \(byte\[\] array\)](#)
Fill object with byte data.
- [byte getType \(\)](#)
Get packet type.

5.31.1 Detailed Description

Packet request for authentication key.

5.31.2 Member Function Documentation

5.31.2.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest.fromByteArray (byte[] array) [inline]`

Fill object with byte data.

Parameters

<code>in</code>	<code>array</code>	Byte data as array.
-----------------	--------------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.31.2.2 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest.getType () [inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

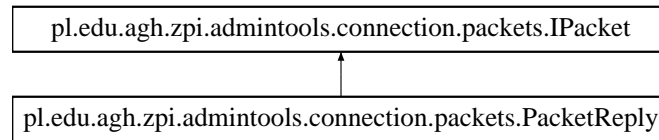
The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PackageKeyRequest.java`

5.32 pl.edu.agh.zpi.admintools.connection.packets.PacketReply Class Reference

Packet with request reply value.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketReply:



Public Member Functions

- [PacketReply](#) ()
Default constructor, do nothing.
- int [getValue](#) ()
Get reply value.
- byte[] [toByteArray](#) ()
- void [fromByteArray](#) (byte[] array)
Fill object with byte data.
- byte [getType](#) ()
Get packet type.

Static Public Attributes

- static final int [NO_AUTH](#) = 0
No authentication flag value.

5.32.1 Detailed Description

Packet with request reply value.

5.32.2 Member Function Documentation

5.32.2.1 void pl.edu.agh.zpi.admintools.connection.packets.PacketReply.fromByteArray (byte[] array) `[inline]`

Fill object with byte data.

Parameters

<code>in</code>	<code>array</code>	Byte data as array.
-----------------	--------------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.32.2.2 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketReply.getType ()` `[inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.32.2.3 `public int pl.edu.agh.zpi.admintools.connection.packets.PacketReply.getValue ()` `[inline]`

Get reply value.

Returns

Reply value.

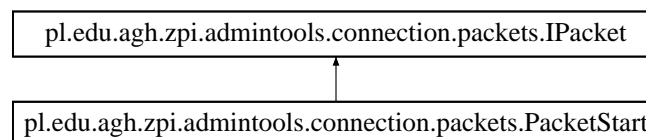
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PackageReply.java

5.33 pl.edu.agh.zpi.admintools.connection.packets.PacketStart Class Reference

Starting packet.

Inheritance diagram for `pl.edu.agh.zpi.admintools.connection.packets.PacketStart`:



Public Member Functions

- [PacketStart](#) ()
Default constructor, do nothing.
- [PacketStart](#) (short interval)
Constructor, set time interval.
- `byte[] toByteArray ()`
- `void fromByteArray (byte[] array)`
Fill object with byte data.
- `byte getType ()`
Get packet type.

5.33.1 Detailed Description

Starting packet.

5.33.2 Constructor & Destructor Documentation

5.33.2.1 `public pl.edu.agh.zpi.admintools.connection.packets.PacketStart.PacketStart (short interval) [inline]`

Constructor, set time interval.

Parameters

<i>interval</i>	Time interval.
-----------------	----------------

5.33.3 Member Function Documentation

5.33.3.1 void `pl.edu.agh.zpi.admintools.connection.packets.PacketStart.fromByteArray (byte[] array)` `[inline]`

Fill object with byte data.

Parameters

<i>in</i>	<i>array</i>	Byte data as array.
-----------	--------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.33.3.2 byte `pl.edu.agh.zpi.admintools.connection.packets.PacketStart.getType ()` `[inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

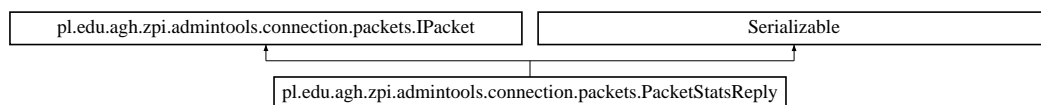
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketStart.java

5.34 pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply Class Reference

Reply for stats request.

Inheritance diagram for `pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply`:



Public Member Functions

- [PacketStatsReply \(\)](#)
Default constructor, do nothing.
- void [fromByteArray \(byte\[\] array\)](#)
Fill object with byte data.
- `ArrayList< Float >` [getPoints \(\)](#)
Get list with given points.
- byte [getType \(\)](#)
Get packet type.
- `byte[]` [toByteArray \(\)](#)

Static Public Attributes

- static final String [PACKET_STATS_REPLY](#) = "pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply.PACKET_STATS_REPLY"
Packet full class type.
- static int [CPU](#) = 0
CPU data flag.
- static int [RAM](#) = 1
RAM memory data flag.
- static int [TEMP](#) = 2
TEMPerature data flag.
- static int [DISK](#) = 3
Disc data flag.

5.34.1 Detailed Description

Reply for stats request.

5.34.2 Member Function Documentation

5.34.2.1 void [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply.fromByteArray \(byte\[\] array \)](#) [[inline](#)]

Fill object with byte data.

Parameters

in	array	Byte data as array.
----	-------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.34.2.2 public [ArrayList< Float > pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply.getPoints \(\)](#) [[inline](#)]

Get list with given points.

Returns

List with points.

5.34.2.3 byte [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply.getType \(\)](#) [[inline](#)]

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

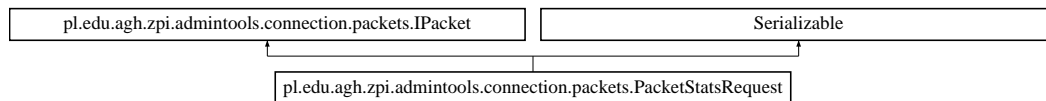
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketStatsReply.java

5.35 pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest Class Reference

Stats request from agent.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest:



Public Member Functions

- [PacketStatsRequest](#) ()
Default constructor, do nothing.
- `byte[]` [toByteArray](#) ()
- `void` [fromByteArray](#) (`byte[]` array)
Fill object with byte data.
- `void` [setAgentId](#) (`short` agentId)
Set agent with stats id.
- `void` [setStartDate](#) (`int` startDate)
Set stats start date.
- `void` [setEndDate](#) (`int` endDate)
Set stats end date.
- `void` [setPoints](#) (`short` points)
Set stats points.
- `void` [setDataType](#) (`byte` dataType)
Set data type flag.
- `void` [setDiskName](#) (`String` diskName)
Set disc name.
- `short` [getAgentId](#) ()
Get agent with stats id.
- `int` [getStartDate](#) ()
Get stats start date.
- `int` [getEndDate](#) ()
Get stats end date.
- `short` [getPoints](#) ()
Get stats points.
- `byte` [getDataType](#) ()
Get data type flag.
- `String` [getDiskName](#) ()
Get disc name.
- `byte` [getType](#) ()
Get packet type.

Static Public Attributes

- `static final String` [PACKET_STATS_REQUEST](#) = "pl.edu.agh.zpi.admintools.connection.packets.PACKET_CONFIG"
Packet full class type.
- `static final byte` [CPU](#) = 0

CPU data flag.

- static final byte [RAM](#) = 1

RAM memory data flag.

- static final byte [TEMP](#) = 2

TEMPerature data flag.

- static final byte [DISK](#) = 3

Disc data flag.

5.35.1 Detailed Description

Stats request from agent.

5.35.2 Member Function Documentation

5.35.2.1 void [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.fromByteArray \(byte\[\] array \)](#) [[inline](#)]

Fill object with byte data.

Parameters

in	<i>array</i>	Byte data as array.
----	--------------	---------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.35.2.2 public short [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getAgentId \(\)](#) [[inline](#)]

Get agent with stats id.

Returns

Agent id.

5.35.2.3 public byte [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getDataType \(\)](#) [[inline](#)]

Get data type flag.

Returns

Type flag.

5.35.2.4 public String [pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getDiskName \(\)](#) [[inline](#)]

Get disc name.

Returns

Disc name.

5.35.2.5 `public int pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getEndDate () [inline]`

Get stats end date.

Returns

End date.

5.35.2.6 `public short pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getPoints () [inline]`

Get stats points.

Returns

Stats points.

5.35.2.7 `public int pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getStartDate () [inline]`

Get stats start date.

Returns

Start date.

5.35.2.8 `byte pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getType () [inline]`

Get packet type.

Returns

Packet type.

Implements [pl.edu.agh.zpi.admintools.connection.packets.IPacket](#).

5.35.2.9 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setAgentId (short agentId) [inline]`

Set agent with stats id.

Parameters

<i>agentId</i>	Agent id.
----------------	-----------

Returns

None.

5.35.2.10 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setDataType (byte dataType) [inline]`

Set data type flag.

Parameters

<i>dataType</i>	Type flag.
-----------------	------------

Returns

None.

5.35.2.11 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setDiskName (String diskName)`
[inline]

Set disc name.

Parameters

<i>diskName</i>	Disc name.
-----------------	------------

Returns

None.

5.35.2.12 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setEndDate (int endDate)`
[inline]

Set stats end date.

Parameters

<i>endDate</i>	Stats end date.
----------------	-----------------

Returns

None.

5.35.2.13 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setPoints (short points)`
[inline]

Set stats points.

Parameters

<i>points</i>	Stats points.
---------------	---------------

Returns

None.

5.35.2.14 `public void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.setStartDate (int startDate)`
[inline]

Set stats start date.

Parameters

<i>startDate</i>	Stats start date.
------------------	-------------------

Returns

None.

The documentation for this class was generated from the following file:

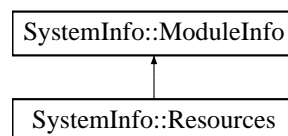
- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketStatsRequest.java

5.36 SystemInfo::Resources Class Reference

Contains current resources status and its limits.

```
#include <Resources.h>
```

Inheritance diagram for SystemInfo::Resources:



Public Member Functions

- [Resources](#) ()
Default constructor, zeroes resource variables.
- void [displayCombinedInfo](#) ()
Display all informations about resources using standard output (std::cout).

Public Attributes

- uint64 [cpuCurrent](#)
Current cpu resource.
- uint64 [cpuMax](#)
Limit of cpu resource.
- uint64 [fileSizeCurrent](#)
Current file size.
- uint64 [fileSizeMax](#)
Limit of file size.
- uint64 [pipeSizeCurrent](#)
Current pipe buffer size.
- uint64 [pipeSizeMax](#)
Limit of pipe buffer size.
- uint64 [dataCurrent](#)
Current data size.
- uint64 [dataMax](#)
Limit of data size.

- uint64 [stackCurrent](#)
Current stack use.
- uint64 [stackMax](#)
Limit of use of stack.
- uint64 [coreCurrent](#)
Current core resource.
- uint64 [coreMax](#)
Limit of core resource.
- uint64 [memoryCurrent](#)
Current memory use.
- uint64 [memoryMax](#)
Limit of memory use.
- uint64 [processesCurrent](#)
Current processes resource.
- uint64 [processesMax](#)
Limit of processes resource.
- uint64 [openFilesCurrent](#)
Current opened files resource.
- uint64 [openFilesMax](#)
Limit of opened files resource at once.
- uint64 [virtualMemoryCurrent](#)
Current virtual memory resource.
- uint64 [virtualMemoryMax](#)
Limit of virtual memory resource.

5.36.1 Detailed Description

Contains current resources status and its limits.

5.36.2 Member Function Documentation

5.36.2.1 void SystemInfo::Resources::displayCombinedInfo () [inline], [virtual]

Display all informations about resources using standard output (std::cout).

Returns

None

Implements [SystemInfo::ModuleInfo](#).

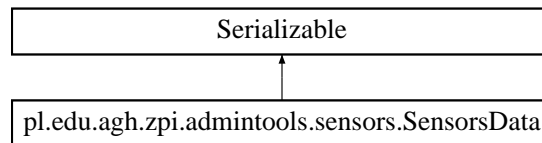
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/Resources.h

5.37 pl.edu.agh.zpi.admintools.sensors.SensorsData Class Reference

Sensors data structure as serializable POJO.

Inheritance diagram for pl.edu.agh.zpi.admintools.sensors.SensorsData:



Public Member Functions

- float [getTemp](#) ()
Get current CPU temperature.
- boolean [isTempValid](#) ()
Check if CPU temperature measurement is valid.
- float [getCpuUsage](#) ()
Get currently CPU usage.
- long [getTotalRam](#) ()
Get total size of RAM memory.
- long [getFreeRam](#) ()
Get size of currently free RAM memory.
- int [getUptime](#) ()
Get system uptime from last restart.
- ArrayList< [DiskUsageData](#) > [getDiskUsages](#) ()
Get all discs usage.
- ArrayList< [ServiceData](#) > [getServices](#) ()
Get services basic data.
- String [toString](#) ()
Convert [SensorsData](#) to string representation.

Static Public Member Functions

- static [SensorsData fromByteBuffer](#) (ByteBuffer buffer)
Fill sensors data with given byte buffer.

5.37.1 Detailed Description

Sensors data structure as serializable POJO.

5.37.2 Member Function Documentation

5.37.2.1 `public static SensorsData pl.edu.agh.zpi.admintools.sensors.SensorsData.fromByteBuffer (ByteBuffer buffer)`
`[inline], [static]`

Fill sensors data with given byte buffer.

Parameters

<i>buffer</i>	Byte buffer with sensors data.
---------------	--------------------------------

Returns

Converted [ServiceData](#) object.

5.37.2.2 `public float pl.edu.agh.zpi.admintools.sensors.SensorsData.getCpuUsage () [inline]`

Get currently CPU usage.

Returns

Percent CPU usage.

5.37.2.3 `public ArrayList< DiskUsageData > pl.edu.agh.zpi.admintools.sensors.SensorsData.getDiskUsages () [inline]`

Get all discs usage.

Returns

List of discs usage.

5.37.2.4 `public long pl.edu.agh.zpi.admintools.sensors.SensorsData.getFreeRam () [inline]`

Get size of currently free RAM memory.

Returns

Free RAM.

5.37.2.5 `public ArrayList< ServiceData > pl.edu.agh.zpi.admintools.sensors.SensorsData.getServices () [inline]`

Get services basic data.

Returns

List of services data.

5.37.2.6 `public float pl.edu.agh.zpi.admintools.sensors.SensorsData.getTemp () [inline]`

Get current CPU temperature.

Returns

CPU temperature.

5.37.2.7 `public long pl.edu.agh.zpi.admintools.sensors.SensorsData.getTotalRam () [inline]`

Get total size of RAM memory.

Returns

Total RAM.

5.37.2.8 `public int pl.edu.agh.zpi.admintools.sensors.SensorsData.getUptime () [inline]`

Get system uptime from last restart.

Returns

System uptime.

5.37.2.9 `public boolean pl.edu.agh.zpi.admintools.sensors.SensorsData.isTempValid () [inline]`

Check if CPU temperature measurement is valid.

Returns

Is CPU temperature valid.

5.37.2.10 `public String pl.edu.agh.zpi.admintools.sensors.SensorsData.toString () [inline]`

Convert [SensorsData](#) to string representation.

Returns

String representation.

The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/SensorsData.java`

5.38 WinAgent::Server Class Reference

Represents server connected to.

```
#include <serverWin.h>
```

Public Member Functions

- [Server](#) ()
Constructor, zeroes data.
- [~Server](#) ()
Destructor, do nothing.
- void [setup](#) (const string &host, int port, const string &key)
Set server connection data and authentication key.
- void [process](#) ()
Process connection events.
- bool [isValid](#) ()
Check if connection is valid (agent connected to server).
- bool [configChanged](#) ()
Check if configuration change is needed.
- void [configApplied](#) ()
Set configuration change flag if new config applied.
- bool [sendPacket](#) ([IPacket](#) &packet)
Send given packet to server.

- void `connectServer` ()
Connect to server.
- `TPacketConfig` & `getConfig` ()
Get current agent-server configuration.

5.38.1 Detailed Description

Represents server connected to.

5.38.2 Member Function Documentation

5.38.2.1 void `Server::configApplied` () [`inline`]

Set configuration change flag if new config applied.

Returns

None.

5.38.2.2 bool `Server::configChanged` () [`inline`]

Check if configuration change is needed.

Returns

If change needed.

5.38.2.3 void `Server::connectServer` ()

Connect to server.

Returns

None.

5.38.2.4 `TPacketConfig` & `Server::getConfig` () [`inline`]

Get current agent-server configuration.

Returns

Current configuration.

5.38.2.5 bool `Server::isValid` () [`inline`]

Check if connection is valid (agent connected to server).

Returns

If connected.

5.38.2.6 void Server::process ()

Process connection events.

Returns

None.

5.38.2.7 bool Server::sendPacket (IPacket & packet)

Send given packet to server.

Parameters

<i>packet</i>	Packet to send.
---------------	-----------------

Returns

If succeeded.

5.38.2.8 void Server::setup (const string & host, int port, const string & key)

Set server connection data and authentication key.

Parameters

<i>host</i>	Host address.
<i>port</i>	Host port.
<i>key</i>	Authentication key.

Returns

None.

The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/agent_win/src/serverWin.h
- D:/Programowanie/Projekty/ZPI/agent_win/src/serverWin.cpp

5.39 Server Class Reference

Represents server connected to.

```
#include <server.h>
```

Public Member Functions

- [Server](#) ()
Constructor, zeroes data.
- [~Server](#) ()
Destructor, do nothing.
- void [setup](#) (const string &host, int port, const string &key)
Set server connection data and authentication key.
- void [process](#) ()

- Process connection events.*
- bool `isValid ()`
Check if connection is valid (agent connected to server).
- bool `configChanged ()`
Check if configuration change is needed.
- void `configApplied ()`
Set configuration change flag if new config applied.
- bool `sendPacket (IPacket &packet)`
Send given packet to server.
- `TPacketConfig & getConfig ()`
Get current agent-server configuration.
- bool `readPacket (int replyType, IPacket &p, int timeout)`

5.39.1 Detailed Description

Represents server connected to.

5.39.2 Member Function Documentation

5.39.2.1 void Server::configApplied () [inline]

Set configuration change flag if new config applied.

Returns

None.

5.39.2.2 bool Server::configChanged () [inline]

Check if configuration change is needed.

Returns

If change needed.

5.39.2.3 TPacketConfig & Server::getConfig () [inline]

Get current agent-server configuration.

Returns

Current configuration.

5.39.2.4 bool Server::isValid () [inline]

Check if connection is valid (agent connected to server).

Returns

If connected.

5.39.2.5 void Server::process ()

Process connection events.

Returns

None.

5.39.2.6 bool Server::sendPacket (IPacket & packet)

Send given packet to server.

Parameters

<i>packet</i>	Packet to send.
---------------	-----------------

Returns

If succeeded.

5.39.2.7 void Server::setup (const string & host, int port, const string & key)

Set server connection data and authentication key.

Parameters

<i>host</i>	Host address.
<i>port</i>	Host port.
<i>key</i>	Authentication key.

Returns

None.

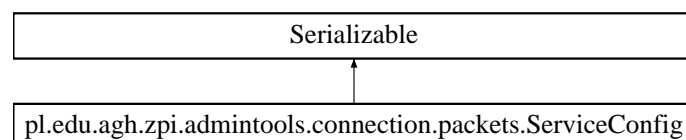
The documentation for this class was generated from the following files:

- D:/Programowanie/Projekty/ZPI/agent_lin/server.h
- D:/Programowanie/Projekty/ZPI/agent_lin/server.cpp

5.40 pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig Class Reference

Service simple configuration.

Inheritance diagram for pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig:



Public Member Functions

- [ServiceConfig](#) (String name, boolean isTCP, short port)

Constructor, sets configurations variables.

- byte[] **toByteArray** ()
- String **getName** ()

Get service name.

- boolean **isTCP** ()
- short **getPort** ()

Get service port.

- short **getSize** ()

Get service configuration data size.

- String **toString** ()

Human readable string representation of packet.

Static Public Member Functions

- static **ServiceConfig fromByteBuffer** (ByteBuffer bArray)

5.40.1 Detailed Description

Service simple configuration.

5.40.2 Constructor & Destructor Documentation

- 5.40.2.1 **public pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig.ServiceConfig (String name, boolean isTCP, short port) [inline]**

Constructor, sets configurations variables.

Parameters

<i>name</i>	Service name.
<i>isTCP</i>	Service type (TCP/UDP).
<i>port</i>	Service running port.

5.40.3 Member Function Documentation

- 5.40.3.1 **public String pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig.getName () [inline]**

Get service name.

Returns

Service name.

- 5.40.3.2 **public short pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig.getPort () [inline]**

Get service port.

Returns

Service port.

5.40.3.3 `public short pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig.getSize () [inline]`

Get service configuration data size.

Returns

Service conf size.

5.40.3.4 `public String pl.edu.agh.zpi.admintools.connection.packets.ServiceConfig.toString () [inline]`

Human readable string representation of packet.

Returns

Packet as string.

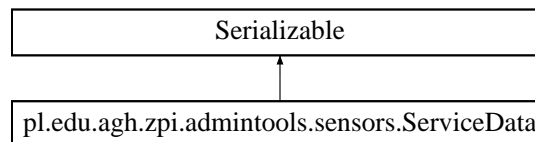
The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/Service-Config.java

5.41 pl.edu.agh.zpi.admintools.sensors.ServiceData Class Reference

Service data structure as serializable POJO.

Inheritance diagram for pl.edu.agh.zpi.admintools.sensors.ServiceData:



Public Member Functions

- String [getName](#) ()
Get service name.
- boolean [isAvailable](#) ()
Check service availability.
- String [toString](#) ()
Convert [ServiceData](#) to string representation.

Static Public Member Functions

- static [ServiceData fromByteBuffer](#) (ByteBuffer buffer)
Fill service data with given byte buffer.

5.41.1 Detailed Description

Service data structure as serializable POJO.

5.41.2 Member Function Documentation

5.41.2.1 `public static ServiceData pl.edu.agh.zpi.admintools.sensors.ServiceData.fromByteBuffer (ByteBuffer buffer)`
`[inline], [static]`

Fill service data with given byte buffer.

Parameters

<i>buffer</i>	Byte buffer with service.
---------------	---------------------------

Returns

Converted [ServiceData](#) object.

5.41.2.2 `public String pl.edu.agh.zpi.admintools.sensors.ServiceData.getName () [inline]`

Get service name.

Returns

Service name.

5.41.2.3 `public boolean pl.edu.agh.zpi.admintools.sensors.ServiceData.isAvailable () [inline]`

Check service availability.

Returns

If available.

5.41.2.4 `public String pl.edu.agh.zpi.admintools.sensors.ServiceData.toString () [inline]`

Convert [ServiceData](#) to string representation.

Returns

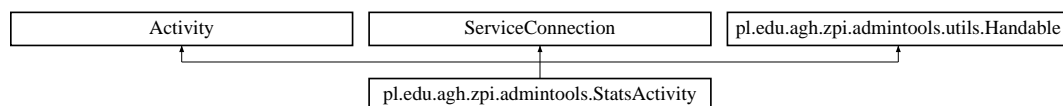
String representation.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/ServiceData.java

5.42 pl.edu.agh.zpi.admintools.StatsActivity Class Reference

Inheritance diagram for pl.edu.agh.zpi.admintools.StatsActivity:



Public Member Functions

- void [onCreate](#) (Bundle savedInstanceState)
- void [onServiceConnected](#) (ComponentName name, IBinder service)
Execute on service connection.
- void [onServiceDisconnected](#) (ComponentName name)
- void [handleMessage](#) (Message msg)

- void [manageAgentListButtons](#) (View view)
- boolean [onCreateOptionsMenu](#) (Menu menu)
- boolean [onOptionsItemSelected](#) (MenuItem item)
- void [toggleTable](#) (View view)
- void [onDialogConfigButtonClicked](#) (View view)
- void [findAgentByAlert](#) (final View view)

Static Public Attributes

- static double **tempAlertLevel** = 85
- static double **HDDAlertLevel** = 0.95

Protected Member Functions

- void [onDestroy](#) ()
- void [onStop](#) ()
- void [onResume](#) ()
- void [onActivityResult](#) (int requestCode, int resultCode, Intent data)

5.42.1 Detailed Description

for interacting and handling agents stats data.

5.42.2 Member Function Documentation

5.42.2.1 `public void pl.edu.agh.zpi.admintools.StatsActivity.findAgentByAlert (final View view)` `[inline]`

active alert.

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

5.42.2.2 `public void pl.edu.agh.zpi.admintools.StatsActivity.handleMessage (Message msg)` `[inline]`

Parameters

<i>msg</i>	Message to handle.
------------	--------------------

Returns

None.

Implements [pl.edu.agh.zpi.admintools.utils.Handable](#).

5.42.2.3 `public void pl.edu.agh.zpi.admintools.StatsActivity.manageAgentListButtons (View view)` `[inline]`

list buttons.

Parameters

<i>view</i>	Agent data view.
-------------	------------------

Returns

None.

5.42.2.4 `protected void pl.edu.agh.zpi.admintools.StatsActivity.onActivityResult (int requestCode, int resultCode, Intent data)` `[inline]`, `[protected]`

`requestCode` Request code.

Parameters

<i>resultCode</i>	Result code.
<i>data</i>	Result data.

Returns

None.

5.42.2.5 `public void pl.edu.agh.zpi.admintools.StatsActivity.onCreate (Bundle savedInstanceState)` `[inline]`

activity creation.

Parameters

<i>savedInstanceState</i>	Saved state.
---------------------------	--------------

Returns

None.

5.42.2.6 `public boolean pl.edu.agh.zpi.admintools.StatsActivity.onCreateOptionsMenu (Menu menu)` `[inline]`

creation of options menu.

Parameters

<i>menu</i>	Menu data.
-------------	------------

Returns

true.

5.42.2.7 `protected void pl.edu.agh.zpi.admintools.StatsActivity.onDestroy ()` `[inline]`, `[protected]`

Returns

None.

5.42.2.8 `public void pl.edu.agh.zpi.admintools.StatsActivity.onDialogConfigButtonClicked (View view)` `[inline]`

dialog configuration button was clicked.

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

5.42.2.9 `public boolean pl.edu.agh.zpi.admintools.StatsActivity.onOptionsItemSelected (MenuItem item) [inline]`

menu options item selection.

Parameters

<i>item</i>	Selected menu item.
-------------	---------------------

Returns

If selected.

5.42.2.10 `protected void pl.edu.agh.zpi.admintools.StatsActivity.onResume () [inline], [protected]`

None.

5.42.2.11 `public void pl.edu.agh.zpi.admintools.StatsActivity.onServiceConnected (ComponentName name, IBinder service) [inline]`

Execute on service connection.

Parameters

<i>name</i>	Component name.
<i>service</i>	Msg binder.

Returns

None.

5.42.2.12 `public void pl.edu.agh.zpi.admintools.StatsActivity.onServiceDisconnected (ComponentName name) [inline]`

on service disconnection.

Parameters

<i>name</i>	Component name.
-------------	-----------------

Returns

None.

5.42.2.13 `protected void pl.edu.agh.zpi.admintools.StatsActivity.onStop () [inline], [protected]`

None.

5.42.2.14 `public void pl.edu.agh.zpi.admintools.StatsActivity.toggleTable (View view) [inline]`

Parameters

<i>view</i>	Current View.
-------------	---------------

Returns

None.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/StatsActivity.java

5.43 TAgentData Class Reference

Agent data from one moment.

```
#include <agents.h>
```

Public Attributes

- uint32_t [time](#)
Data time.
- TPacketAgentData [packet](#)
Agent data packet.

5.43.1 Detailed Description

Agent data from one moment.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/server/agents.h

5.44 TDBAgent Class Reference

Client-agent DTO for database use.

```
#include <db.h>
```

Public Attributes

- int [id](#)
Agent id.
- string [name](#)
Agent name.
- vector< [TDBService](#) > [services](#)
List of agent services.
- string [tempPath](#)
Temperature path.
- int [tempDivider](#)
Temperature divider.
- int [interval](#)
Time interval.

5.44.1 Detailed Description

Client-agent DTO for database use.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/server/db.h

5.45 TDBService Class Reference

Service DTO for database use.

```
#include <db.h>
```

Public Attributes

- string [name](#)
Service name.
- bool [tcp](#)
Service transport type (TCP/UDP).
- int [port](#)
Service port number.

5.45.1 Detailed Description

Service DTO for database use.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/server/db.h

5.46 TSensorsRecord::TDisk Struct Reference

Simple disc data.

```
#include <db.h>
```

Public Attributes

- string [name](#)
Disc name.
- double [usage](#)
Percent disc usage.

5.46.1 Detailed Description

Simple disc data.

The documentation for this struct was generated from the following file:

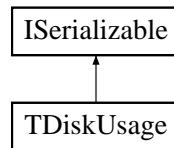
- D:/Programowanie/Projekty/ZPI/server/db.h

5.47 TDiskUsage Class Reference

Information about disc usage.

```
#include <sensors.h>
```

Inheritance diagram for TDiskUsage:



Public Member Functions

- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- string [name](#)
Disc name.
- uint64_t [totalSpace](#)
Total available space on disc.
- uint64_t [usedSpace](#)
Used space on disc.

Additional Inherited Members

5.47.1 Detailed Description

Information about disc usage.

5.47.2 Member Function Documentation

5.47.2.1 bool TDiskUsage::fromBuffer ([buffer_t](#) & *buf*) [inline], [virtual]

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.47.2.2 `void TDiskUsage::toBuffer(buffer_t & buf)` `[inline]`, `[virtual]`

Get byte buffer representation.

Parameters

<code>out</code>	<code>buf</code>	Target buffer.
------------------	------------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/common/sensors.h`

5.48 THeader Struct Reference

Packet header.

```
#include <packets.h>
```

Public Attributes

- [uint8_t type](#)
Packet type.
- [uint16_t size](#)
Packet size.

5.48.1 Detailed Description

Packet header.

The documentation for this struct was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/common/packets.h`

5.49 Timer Class Reference

Counts steps between the time interval.

```
#include <kutils.h>
```

Public Member Functions

- [Timer](#) ()
Default constructor, zeroes time interval.
- void [setInterval](#) (uint32_t interval)
Set interval to count to given value.
- bool [process](#) ()
Check if interval passed.

5.49.1 Detailed Description

Counts steps between the time interval.

5.49.2 Member Function Documentation

5.49.2.1 `bool Timer::process ()` `[inline]`

Check if interval passed.

Returns

If passed.

5.49.2.2 `void Timer::setInterval (uint32_t interval)` `[inline]`

Set interval to count to given value.

Parameters

<i>interval</i>	Time interval.
-----------------	----------------

Returns

None.

The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/common/kutils.h`

5.50 `SystemInfo::Cpu::Times` Struct Reference

Represents times that `Cpu` used on various operations and states.

```
#include <Cpu.h>
```

Public Member Functions

- `Times ()`
Default constructor, zeroes times variables.

Public Attributes

- uint64 `user`
Time spent outside kernel.
- uint64 `sys`
Time spent inside kernel.
- uint64 `nice`
Nice time.
- uint64 `idle`
Time spent idleing, without jobs.
- uint64 `wait`
Time spent waiting for other tasks.
- uint64 `irq`
Time spent on handling hardware irq (interrupt).
- uint64 `soft_irq`
Time spent on handling software irq (interrupt).

- uint64 [stolen](#)
Time stolen.
- uint64 [total](#)
Total time spent on every tasks.

5.50.1 Detailed Description

Represents times that [Cpu](#) used on various operations and states.

The documentation for this struct was generated from the following file:

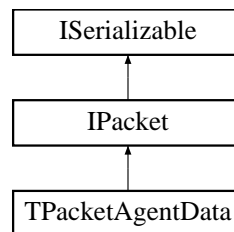
- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/Cpu.h

5.51 TPacketAgentData Class Reference

Data from agent.

```
#include <packets.h>
```

Inheritance diagram for TPacketAgentData:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- uint16_t [id](#)
Packet id.
- uint8_t [oldData](#)
Old data.
- string [name](#)
Agent name.
- [TSensorsData](#) [data](#)
Sensors data.

Additional Inherited Members

5.51.1 Detailed Description

Data from agent.

5.51.2 Member Function Documentation

5.51.2.1 `bool TPacketAgentData::fromBuffer (buffer_t & buf)` `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.51.2.2 `int TPacketAgentData::getType ()` `[inline]`, `[virtual]`

Get packet type.

Returns

PACKET_AGENTDATA.

Implements [IPacket](#).

5.51.2.3 `void TPacketAgentData::toBuffer (buffer_t & buf)` `[inline]`, `[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

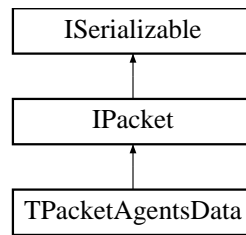
- `D:/Programowanie/Projekty/ZPI/common/packets.h`

5.52 TPacketAgentsData Class Reference

Combined agents data.

```
#include <packets.h>
```

Inheritance diagram for TPacketAgentsData:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- vector< [TPacketAgentData](#) > [agents](#)
Agents data.

Additional Inherited Members

5.52.1 Detailed Description

Combined agents data.

5.52.2 Member Function Documentation

5.52.2.1 bool [TPacketAgentsData::fromBuffer](#) ([buffer_t](#) & *buf*) [inline],[virtual]

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.52.2.2 int [TPacketAgentsData::getType](#) () [inline],[virtual]

Get packet type.

Returns

PACKET_AGENTS_DATA.

Implements [IPacket](#).

5.52.2.3 void TPacketAgentsData::toBuffer (*buffer_t* & *buf*) [inline], [virtual]

Get byte buffer representation.

Parameters

<code>out</code>	<code>buf</code>	Target buffer.
------------------	------------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

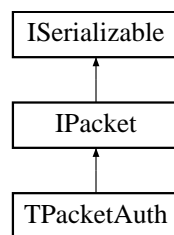
- `D:/Programowanie/Projekty/ZPI/common/packets.h`

5.53 TPacketAuth Class Reference

Authentication packet.

```
#include <packets.h>
```

Inheritance diagram for TPacketAuth:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- char [key](#) [16]
Key.
- uint8_t [sendConfig](#)
[Config](#) data.

Additional Inherited Members

5.53.1 Detailed Description

Authentication packet.

5.53.2 Member Function Documentation

5.53.2.1 `bool TPacketAuth::fromBuffer (buffer_t & buf)` `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.53.2.2 `int TPacketAuth::getType ()` `[inline],[virtual]`

Get packet type.

Returns

PACKET_AUTH.

Implements [IPacket](#).

5.53.2.3 `void TPacketAuth::toBuffer (buffer_t & buf)` `[inline],[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

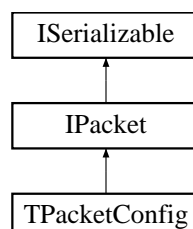
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.54 TPacketConfig Class Reference

Agent configuration.

```
#include <packets.h>
```

Inheritance diagram for TPacketConfig:



Classes

- struct [TService](#)
Networ service data.

Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- uint16_t [agentId](#)
Agent id.
- string [tempPath](#)
Temperature path.
- uint16_t [tempDivider](#)
Temperature divider.
- vector< [TPacketConfig::TService](#) > [services](#)
Agent services.
- uint16_t [interval](#)
Time interval.
- string [name](#)
Agent name.

Additional Inherited Members

5.54.1 Detailed Description

Agent configuration.

5.54.2 Member Function Documentation

5.54.2.1 bool [TPacketConfig::fromBuffer](#) ([buffer_t](#) & *buf*) [\[inline\]](#), [\[virtual\]](#)

Fill object with buffer data.

Parameters

in	buf	Buffer data.
--------------------	---------------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.54.2.2 int [TPacketConfig::getType](#) () [\[inline\]](#), [\[virtual\]](#)

Get packet type.

Returns

PACKET_CONFIG.

Implements [IPacket](#).

5.54.2.3 void TPacketConfig::toBuffer (buffer_t & buf) [inline],[virtual]

Get byte buffer representation.

Parameters

out	buf	Target buffer.
-----	-----	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

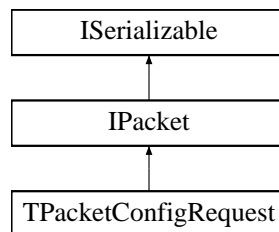
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.55 TPacketConfigRequest Class Reference

Requet for agent configuration.

```
#include <packets.h>
```

Inheritance diagram for TPacketConfigRequest:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) (buffer_t &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) (buffer_t &buf)
Fill object with buffer data.

Public Attributes

- uint16_t [agentId](#)
Requested agent id.

Additional Inherited Members

5.55.1 Detailed Description

Requet for agent configuration.

5.55.2 Member Function Documentation

5.55.2.1 `bool TPacketConfigRequest::fromBuffer (buffer_t & buf) [inline],[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.55.2.2 `int TPacketConfigRequest::getType () [inline],[virtual]`

Get packet type.

Returns

PACKET_CONFIG_REQUEST.

Implements [IPacket](#).

5.55.2.3 `void TPacketConfigRequest::toBuffer (buffer_t & buf) [inline],[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

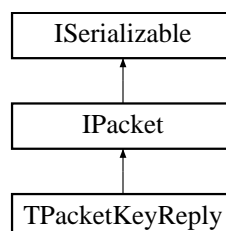
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.56 TPacketKeyReply Class Reference

Packet with authentication key.

```
#include <packets.h>
```

Inheritance diagram for TPacketKeyReply:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- char [key](#) [16]
Key.

Additional Inherited Members

5.56.1 Detailed Description

Packet with authentication key.

5.56.2 Member Function Documentation

5.56.2.1 bool TPacketKeyReply::fromBuffer ([buffer_t](#) & *buf*) [inline],[virtual]

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.56.2.2 int TPacketKeyReply::getType () [inline],[virtual]

Get packet type.

Returns

PACKET_KEY_REPLY.

Implements [IPacket](#).

5.56.2.3 void TPacketKeyReply::toBuffer ([buffer_t](#) & *buf*) [inline],[virtual]

Get byte buffer representation.

Parameters

<code>out</code>	<code>buf</code>	Target buffer.
------------------	------------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

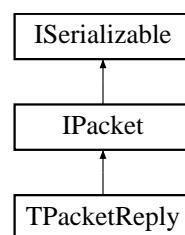
- `D:/Programowanie/Projekty/ZPI/common/packets.h`

5.57 TPacketReply Class Reference

Reply packet.

```
#include <packets.h>
```

Inheritance diagram for TPacketReply:

**Public Member Functions**

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- int [value](#)
Reply value.

Additional Inherited Members

5.57.1 Detailed Description

Reply packet.

5.57.2 Member Function Documentation

5.57.2.1 `bool TPacketReply::fromBuffer (buffer_t & buf)` `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.57.2.2 `int TPacketReply::getType () [inline],[virtual]`

Get packet type.

Returns

PACKET_REPLY.

Implements [IPacket](#).

5.57.2.3 `void TPacketReply::toBuffer (buffer_t & buf) [inline],[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

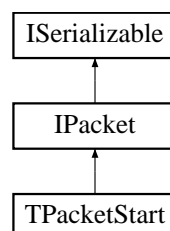
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.58 TPacketStart Class Reference

Starting packet.

```
#include <packets.h>
```

Inheritance diagram for TPacketStart:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- uint16_t [interval](#)
Time interval.

Additional Inherited Members

5.58.1 Detailed Description

Starting packet.

5.58.2 Member Function Documentation

5.58.2.1 bool TPacketStart::fromBuffer ([buffer_t](#) & *buf*) [inline], [virtual]

Fill object with buffer data.

Parameters

in	buf	Buffer data.
--------------------	---------------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.58.2.2 int TPacketStart::getType () [inline], [virtual]

Get packet type.

Returns

PACKET_START.

Implements [IPacket](#).

5.58.2.3 void TPacketStart::toBuffer ([buffer_t](#) & *buf*) [inline], [virtual]

Get byte buffer representation.

Parameters

<code>out</code>	<code>buf</code>	Target buffer.
------------------	------------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

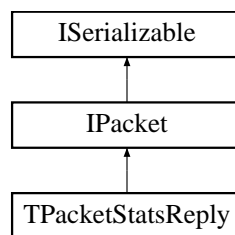
- `D:/Programowanie/Projekty/ZPI/common/packets.h`

5.59 TPacketStatsReply Class Reference

Reply for stats request.

```
#include <packets.h>
```

Inheritance diagram for TPacketStatsReply:



Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- `vector< float >` [points](#)
Given points.

Additional Inherited Members

5.59.1 Detailed Description

Reply for stats request.

5.59.2 Member Function Documentation

5.59.2.1 `bool TPacketStatsReply::fromBuffer (buffer_t & buf)` `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.59.2.2 `int TPacketStatsReply::getType () [inline],[virtual]`

Get packet type.

Returns

PACKET_STATS_REPLY.

Implements [IPacket](#).

5.59.2.3 `void TPacketStatsReply::toBuffer (buffer_t & buf) [inline],[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

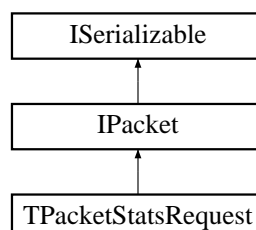
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.60 TPacketStatsRequest Class Reference

Stats request from agent.

```
#include <packets.h>
```

Inheritance diagram for TPacketStatsRequest:

**Public Types**

- enum [EType](#) { **CPU** = 0, **RAM**, **TEMP**, **DISK** }
Statistic types based on origin.

Public Member Functions

- virtual int [getType](#) ()
Get packet type.
- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- uint16_t [agentId](#)
Agent id.
- uint32_t [startDate](#)
Start date.
- uint32_t [endDate](#)
End date.
- uint16_t [points](#)
Number of points.
- [EType](#) [type](#)
Stats type.
- string [diskName](#)
Disc name.

Additional Inherited Members

5.60.1 Detailed Description

Stats request from agent.

5.60.2 Member Function Documentation

5.60.2.1 bool TPacketStatsRequest::fromBuffer ([buffer_t](#) & *buf*) [inline],[virtual]

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.60.2.2 int TPacketStatsRequest::getType () [inline],[virtual]

Get packet type.

Returns

PACKET_STATS_REQUEST.

Implements [IPacket](#).

5.60.2.3 void TPacketStatsRequest::toBuffer (**buffer_t** & *buf*) [inline],[virtual]

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

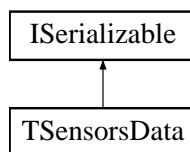
- D:/Programowanie/Projekty/ZPI/common/packets.h

5.61 TSensorsData Class Reference

Data from agent sensors.

```
#include <sensors.h>
```

Inheritance diagram for TSensorsData:



Public Member Functions

- virtual void [toBuffer](#) ([buffer_t](#) &buf)
Get byte buffer representation.
- virtual bool [fromBuffer](#) ([buffer_t](#) &buf)
Fill object with buffer data.

Public Attributes

- uint32_t [timestamp](#)
Time of data acquisition.
- float [temp](#)
Cpu temperature.
- bool [tempValid](#)
Cpu temperature correctness.
- float [cpuUsage](#)
Cpu percent usage.
- uint64_t [totalRam](#)
Available RAM.
- uint64_t [freeRam](#)
Not used RAM.
- uint32_t [uptime](#)

- *System uptime.*
vector< [TDiskUsage](#) > [disksUsage](#)
List of discs usage.
- vector< [TService](#) > [services](#)
List of running services.

Additional Inherited Members

5.61.1 Detailed Description

Data from agent sensors.

5.61.2 Member Function Documentation

5.61.2.1 bool TSensorsData::fromBuffer ([buffer_t](#) & *buf*) `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<i>in</i>	<i>buf</i>	Buffer data.
-----------	------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.61.2.2 void TSensorsData::toBuffer ([buffer_t](#) & *buf*) `[inline]`, `[virtual]`

Get byte buffer representation.

Parameters

<i>out</i>	<i>buf</i>	Target buffer.
------------	------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/common/sensors.h`

5.62 TSensorsRecord Class Reference

Client-agent sensors DTO for database use.

```
#include <db.h>
```

Classes

- struct [TDisk](#)
Simple disc data.

Public Attributes

- int `id`
Agent id.
- uint32_t `timestamp`
Time of sensors read.
- double `temp`
Temperature value.
- double `cpuUsage`
Cpu percent usage.
- double `ramUsage`
RAM percent usage.
- vector< `TDisk` > `disks`
List of discs data.

5.62.1 Detailed Description

Client-agent sensors DTO for database use.

The documentation for this class was generated from the following file:

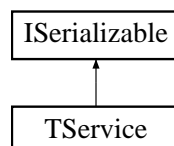
- D:/Programowanie/Projekty/ZPI/server/db.h

5.63 TService Class Reference

Information about service.

```
#include <sensors.h>
```

Inheritance diagram for TService:



Public Member Functions

- virtual void `toBuffer` (`buffer_t` &buf)
Get byte buffer representation.
- virtual bool `fromBuffer` (`buffer_t` &buf)
Fill object with buffer data.

Public Attributes

- string `name`
Service name.
- bool `available`
Service availability.

Additional Inherited Members

5.63.1 Detailed Description

Information about service.

5.63.2 Member Function Documentation

5.63.2.1 bool TService::fromBuffer (`buffer_t & buf`) `[inline]`, `[virtual]`

Fill object with buffer data.

Parameters

<code>in</code>	<code>buf</code>	Buffer data.
-----------------	------------------	--------------

Returns

If succeeded.

Implements [ISerializable](#).

5.63.2.2 void TService::toBuffer (`buffer_t & buf`) `[inline]`, `[virtual]`

Get byte buffer representation.

Parameters

<code>out</code>	<code>buf</code>	Target buffer.
------------------	------------------	----------------

Returns

None.

Implements [ISerializable](#).

The documentation for this class was generated from the following file:

- `D:/Programowanie/Projekty/ZPI/common/sensors.h`

5.64 TPacketConfig::TService Struct Reference

Networ service data.

```
#include <packets.h>
```

Public Attributes

- string [name](#)
Service name.
- bool [tcp](#)
Service transport type (TCP/UDP)
- uint16_t [port](#)
Service port.

5.64.1 Detailed Description

Networ service data.

The documentation for this struct was generated from the following file:

- D:/Programowanie/Projekty/ZPI/common/packets.h

5.65 SystemInfo::FileSystem::Usage Struct Reference

Informations about usage of directory/devie.

```
#include <FileSystem.h>
```

Public Member Functions

- [Usage](#) ()
Default constructor, zeroing usage informations.

Public Attributes

- `std::string` [dir](#)
Directory/disc name for usage informations.
- `double` [percent_use](#)
Percent use of directory/disc.
- `uint64` [total](#)
Total memory assigned to disc.
- `uint64` [free](#)
Free memory on disc.
- `uint64` [used](#)
Memory used on disc.
- `uint64` [avail](#)
Memory available on disc.
- `uint64` [files](#)
Memory used by files.
- `uint64` [free_files](#)
Memory not used by files.
- `uint64` [disc_reads](#)
Number of disc reads operation.
- `uint64` [disc_writes](#)
Number of disc writes operation.
- `uint64` [disc_write_bytes](#)
Number of bytes writed.
- `uint64` [disc_read_bytes](#)
Number of bytes readed.
- `uint64` [disc_rtime](#)
Time spent on read.
- `uint64` [disc_wtime](#)
Time spent on write.
- `uint64` [disc_qtime](#)
Time spent in queue.

- uint64 [disc_time](#)
Total time.
- uint64 [disc_snaptime](#)
Snap time.
- double [disc_service_time](#)
Disc service time.
- double [disc_queue](#)
Number of disc queues.

5.65.1 Detailed Description

Informations about usage of directory/devie.

The documentation for this struct was generated from the following file:

- D:/Programowanie/Projekty/ZPI/agent_win/src/SystemInfo/FileSystem.h

5.66 pl.edu.agh.zpi.admintools.utils.Vector2D Class Reference

Represents two-dimensional vector as point.

Public Member Functions

- [Vector2D](#) ()
Default constructor. Zeroes coordinates.
- [Vector2D](#) (float x, float y)
Constructor, sets coordinates.
- void [mul](#) (float val)
Multiply vector by scalar.
- void [add](#) ([Vector2D](#) vec)
Add vector to current vector.
- void [sub](#) ([Vector2D](#) vec)
Subtract vector from current vector.
- float [length](#) ()
Calculate length (magnitued) of current vector.
- void [norm](#) ()
Normalize current vector.
- [PointF](#) [getPointF](#) ()
Create PointF instance from current vector coordinates.

Static Public Member Functions

- static [Vector2D](#) [mul](#) ([Vector2D](#) a, float b)
Create new vector as result of multiplication of vector and scalar.

Public Attributes

- float [x](#)
X coordinate.
- float [y](#)
Y coordinate.

5.66.1 Detailed Description

Represents two-dimensional vector as point.

5.66.2 Constructor & Destructor Documentation

5.66.2.1 `public pl.edu.agh.zpi.admintools.utils.Vector2D.Vector2D (float x, float y)` `[inline]`

Constructor, sets coordinates.

Parameters

<code>x</code>	X coordinate.
<code>y</code>	Y coordinate.

5.66.3 Member Function Documentation

5.66.3.1 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.add (Vector2D vec)` `[inline]`

Add vector to current vector.

Parameters

<code>vec</code>	Vector2D to add.
------------------	----------------------------------

Returns

None.

5.66.3.2 `public PointF pl.edu.agh.zpi.admintools.utils.Vector2D.getPointF ()` `[inline]`

Create PointF instance from current vector coordinates.

Returns

Instance of PointF filled with vector coordinates.

5.66.3.3 `public float pl.edu.agh.zpi.admintools.utils.Vector2D.length ()` `[inline]`

Calculate length (magnitued) of current vector.

Returns

Length of vector.

5.66.3.4 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.mul (float val)` `[inline]`

Multiply vector by scalar.

Parameters

<i>val</i>	Scalar to multiply by.
------------	------------------------

Returns

None.

5.66.3.5 `public static Vector2D pl.edu.agh.zpi.admintools.utils.Vector2D.mul (Vector2D a, float b) [inline],
[static]`

Create new vector as result of multiplication of vector and scalar.

Parameters

<i>a</i>	Vector to multiply.
<i>b</i>	Scalar to multiplay by.

Returns

Instance of [Vector2D](#) as result of multiplication.

5.66.3.6 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.norm () [inline]`

Normalize current vector.

Returns

None.

5.66.3.7 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.sub (Vector2D vec) [inline]`

Subtract vector from current vector.

Parameters

<i>vec</i>	Vector2D to subtract.
------------	---------------------------------------

Returns

None.

The documentation for this class was generated from the following file:

- D:/Programowanie/Projekty/ZPI/client/AdminTools/src/pl/edu/agh/zpi/admintools/utils/Vector2D.java

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