

ZPI_AdminTools

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Chapter 1

Namespace Index

1.1 Namespace List

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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Chapter 4

Namespace Documentation

4.1 Package pl.edu.agh.zpi.admintools

Admin tool module for android.

Packages

- package [connection](#)
Connection and packets module.
- package [listdata](#)
Data adapters and handlers.
- package [sensors](#)
Sensors data transfer objects (DTOs).
- package [utils](#)
Utilities module.

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](#)
Activity for interacting and handling agents stats data.
- class **ShortTextWatcher**
Text watcher for short text.
- class **ShortOnFocusChangeListener**
On focus change event listener for short text.

4.1.1 Detailed Description

Admin tool module for android. TODO obsługa headerTimeout - teraz zawiesza się przy próbie zalogowania

4.2 Package pl.edu.agh.zpi.admintools.connection

Connection and packets module.

Packages

- package [packets](#)
Packets submodule.

Classes

- class [ConnectionTask](#)
Handle connection events.
- class [Header](#)
Packet header configuration and utility functions.

4.2.1 Detailed Description

Connection and packets module.

4.3 Package pl.edu.agh.zpi.admintools.connection.packets

Packets submodule.

Classes

- interface [IPacket](#)
Packet data base interface.
- class [PacketAgentsData](#)
Combined agents data.
- class [PacketAuthKey](#)
Authentication packet.
- class [PacketConfig](#)
Agent configuration.
- class [PacketConfigRequest](#)
Requet for agent configuration.
- class [PacketKeyReply](#)
Packet with authentication key.
- class [PacketKeyRequest](#)
Packet request for authentication key.
- class [PacketReply](#)
Packet with request reply value.
- class [PacketStart](#)
Starting packet.

- class [PacketStatsReply](#)
Reply for stats request.
- class [PacketStatsRequest](#)
Stats request from agent.
- class [ServiceConfig](#)
Service simple configuration.

4.3.1 Detailed Description

Packets submodule.

4.4 Package `pl.edu.agh.zpi.admintools.listdata`

Data adapters and handlers.

Classes

- class [AgentArrayAdapter](#)
Adapter for AgentData arrays for easy agent data visualization.
- class [ChartsSurface](#)
Surface for displaying charts data.

4.4.1 Detailed Description

Data adapters and handlers.

4.5 Package `pl.edu.agh.zpi.admintools.sensors`

Sensors data transfer objects (DTOs).

Classes

- class [AgentData](#)
Agent data structure as serializable POJO.
- class [DiskUsageData](#)
Disc usage data structure as serializable POJO.
- class [SensorsData](#)
Sensors data structure as serializable POJO.
- class [ServiceData](#)
Service data structure as serializable POJO.

4.5.1 Detailed Description

Sensors data transfer objects (DTOs).

4.6 Package pl.edu.agh.zpi.admintools.utils

Utilities module.

Classes

- interface [Handable](#)
Used by handlers able to handle incoming message.
- class [IncomingHandler](#)
Incoming message handler.
- class [Vector2D](#)
Represents two-dimensional vector as point.

4.6.1 Detailed Description

Utilities module.

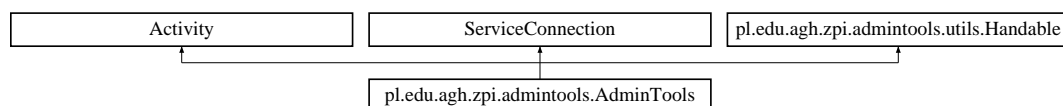
Chapter 5

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.

Definition at line 53 of file AdminTools.java.

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](#).

Definition at line 312 of file AdminTools.java.

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.

Definition at line 345 of file AdminTools.java.

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.

Definition at line 124 of file AdminTools.java.

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.

Definition at line 95 of file AdminTools.java.

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.

Definition at line 362 of file AdminTools.java.

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

Execute on activity destruction.

Returns

None.

Definition at line 278 of file AdminTools.java.

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.

Definition at line 373 of file AdminTools.java.

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

Execute on activity resume event.

Returns

None.

Definition at line 293 of file AdminTools.java.

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.

Definition at line 250 of file AdminTools.java.

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.

Definition at line 267 of file AdminTools.java.

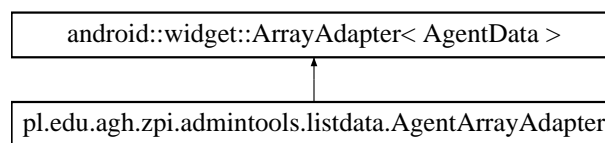
The documentation for this class was generated from the following file:

- 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.

Definition at line 41 of file AgentArrayAdapter.java.

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.
----------------	---------------------------------------

Definition at line 53 of file AgentArrayAdapter.java.

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.

Definition at line 66 of file AgentArrayAdapter.java.

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.

Definition at line 285 of file AgentArrayAdapter.java.

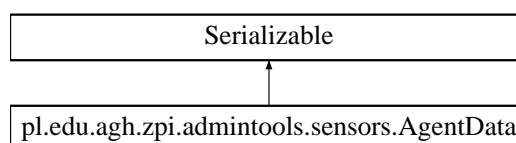
The documentation for this class was generated from the following file:

- `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.

Definition at line 14 of file AgentData.java.

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.

Definition at line 92 of file AgentData.java.

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.

Definition at line 36 of file AgentData.java.

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.

Definition at line 62 of file AgentData.java.

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

Get agent id.

Returns

Agent id.

Definition at line 53 of file AgentData.java.

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

Get agent name.

Returns

Agent name.

Definition at line 71 of file AgentData.java.

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.

Definition at line 104 of file AgentData.java.

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

Convert [AgentData](#) to string representation.

Returns

String representation.

Definition at line 81 of file AgentData.java.

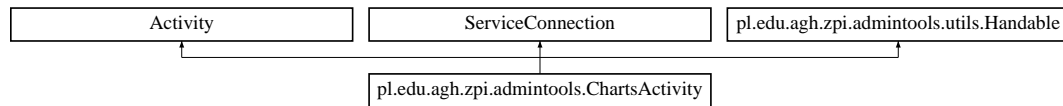
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/sensors/AgentData.java`

5.4 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.

5.4.1 Detailed Description

Activity for interacting and handling charts visualization.

Definition at line 46 of file ChartsActivity.java.

5.4.2 Member Function Documentation

5.4.2.1 `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](#).

Definition at line 198 of file ChartsActivity.java.

5.4.2.2 `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.

Definition at line 82 of file ChartsActivity.java.

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

Execute on activity destruction.

Returns

None.

Definition at line 157 of file ChartsActivity.java.

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

Execute on activity resume event.

Returns

None.

Definition at line 180 of file ChartsActivity.java.

5.4.2.5 `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.

Definition at line 229 of file ChartsActivity.java.

5.4.2.6 `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.

Definition at line 244 of file ChartsActivity.java.

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

Execute on activity stop event.

Returns

None.

Definition at line 171 of file ChartsActivity.java.

5.4.2.8 `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.

Definition at line 306 of file ChartsActivity.java.

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

Set charts data type.

Parameters

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

Returns

None.

Definition at line 392 of file ChartsActivity.java.

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

Set charts date.

Parameters

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

Returns

None.

Definition at line 376 of file ChartsActivity.java.

5.4.2.11 `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.

Definition at line 255 of file ChartsActivity.java.

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

Update charts date.

Returns

None.

Definition at line 350 of file ChartsActivity.java.

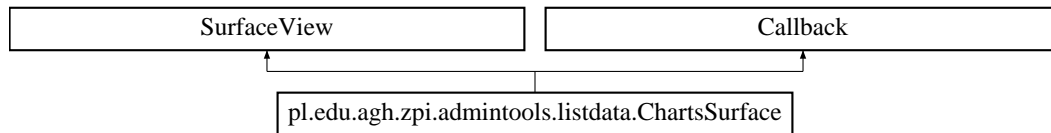
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/ChartsActivity.java`

5.5 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.

5.5.1 Detailed Description

Surface for displaying charts data.

Definition at line 24 of file ChartsSurface.java.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 `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).

Definition at line 42 of file ChartsSurface.java.

5.5.3 Member Function Documentation

5.5.3.1 `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.

Definition at line 88 of file ChartsSurface.java.

5.5.3.2 `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.

Definition at line 58 of file ChartsSurface.java.

5.5.3.3 `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.

Definition at line 69 of file ChartsSurface.java.

5.5.3.4 `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.

Definition at line 79 of file ChartsSurface.java.

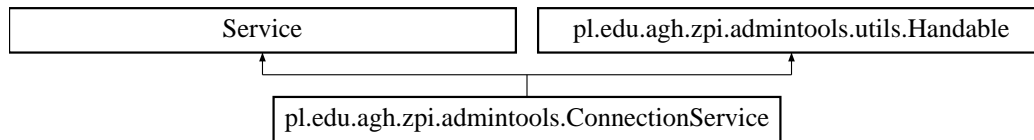
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/listdata/ChartsSurface.java`

5.6 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.

5.6.1 Detailed Description

Service for handling connection events and messages.

Definition at line 24 of file ConnectionService.java.

5.6.2 Member Function Documentation

5.6.2.1 `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](#).

Definition at line 90 of file ConnectionService.java.

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

Execute on service bind.

Returns

New binder.

Definition at line 80 of file ConnectionService.java.

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

Executed on service creation.

Returns

None.

Definition at line 68 of file ConnectionService.java.

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

Execute on service destruction.

Returns

None.

Definition at line 159 of file ConnectionService.java.

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

Execute on service unbinding.

Returns

If succeeded.

Definition at line 147 of file ConnectionService.java.

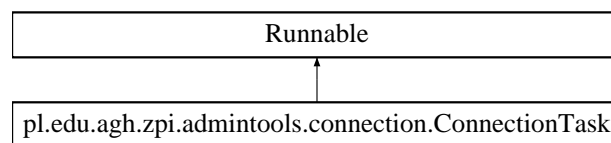
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/ConnectionService.java

5.7 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.

5.7.1 Detailed Description

Handle connection events.

Definition at line 35 of file ConnectionTask.java.

5.7.2 Member Function Documentation

5.7.2.1 `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.

Definition at line 356 of file ConnectionTask.java.

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

Disconnect from connected host.

Returns

None.

Definition at line 379 of file ConnectionTask.java.

5.7.2.3 `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.

Definition at line 419 of file ConnectionTask.java.

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

Start connection task handling routine in different thread.

Returns

None.

Definition at line 79 of file ConnectionTask.java.

5.7.2.5 `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.

Definition at line 408 of file ConnectionTask.java.

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

Stop connection task handling routine.

Returns

None.

Definition at line 389 of file ConnectionTask.java.

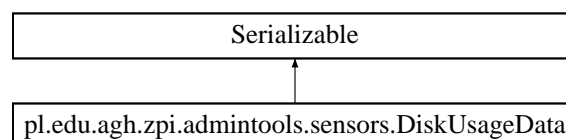
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/ConnectionTask.java

5.8 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.

5.8.1 Detailed Description

Disc usage data structure as serializable POJO.

Definition at line 10 of file `DiskUsageData.java`.

5.8.2 Member Function Documentation

5.8.2.1 `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.

Definition at line 29 of file `DiskUsageData.java`.

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

Get disc name.

Returns

Disc name.

Definition at line 45 of file `DiskUsageData.java`.

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

Get total available space on disc.

Returns

Total space.

Definition at line 54 of file `DiskUsageData.java`.

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

Get used space on disc.

Returns

Used space.

Definition at line 63 of file DiskUsageData.java.

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

Convert [DiskUsageData](#) to string representation.

Returns

String representation.

Definition at line 73 of file DiskUsageData.java.

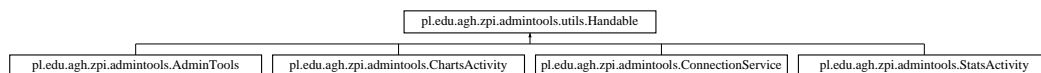
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/sensors/DiskUsageData.java`

5.9 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.

5.9.1 Detailed Description

Used by handlers able to handle incoming message.

Definition at line 9 of file Handable.java.

5.9.2 Member Function Documentation

5.9.2.1 `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:

- [src/pl/edu/agh/zpi/admintools/utils/Handable.java](#)

5.10 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.*

5.10.1 Detailed Description

Packet header configuration and utility functions.

Definition at line 10 of file Header.java.

5.10.2 Constructor & Destructor Documentation

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

Constructor, set header type and size.

Parameters

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

Definition at line 61 of file Header.java.

5.10.3 Member Function Documentation

5.10.3.1 `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.

Definition at line 128 of file Header.java.

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

Get header size.

Returns

[Header](#) size.

Definition at line 107 of file Header.java.

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

Get header type flag.

Returns

[Header](#) type flag.

Definition at line 99 of file Header.java.

5.10.3.4 `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.

Definition at line 72 of file Header.java.

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

Set header size.

Parameters

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

Returns

None.

Definition at line 91 of file Header.java.

5.10.3.6 `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.

Definition at line 82 of file Header.java.

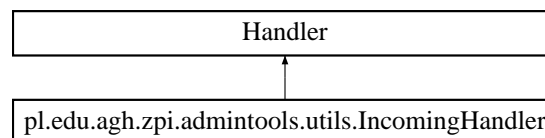
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/Header.java

5.11 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.

5.11.1 Detailed Description

Incoming message handler.

Definition at line 10 of file IncomingHandler.java.

5.11.2 Constructor & Destructor Documentation

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

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

Parameters

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

Definition at line 18 of file IncomingHandler.java.

5.11.3 Member Function Documentation

5.11.3.1 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.

Definition at line 28 of file IncomingHandler.java.

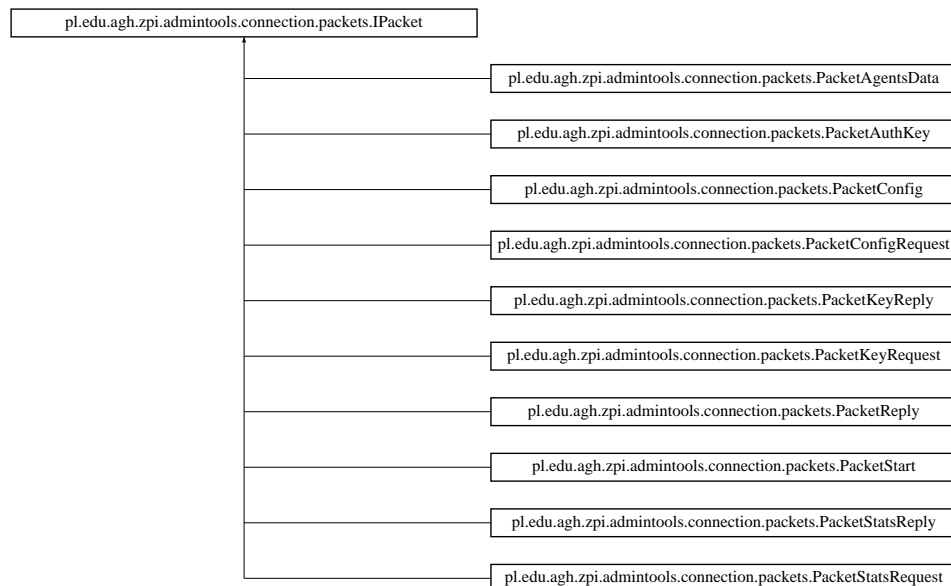
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/utis/IncomingHandler.java

5.12 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.

5.12.1 Detailed Description

Packet data base interface.

Definition at line 11 of file IPacket.java.

5.12.2 Member Function Documentation

5.12.2.1 `public void pl.edu.agh.zpi.admintools.connection.packets.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](#).

5.12.2.2 public byte pl.edu.agh.zpi.admintools.connection.packets.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](#).

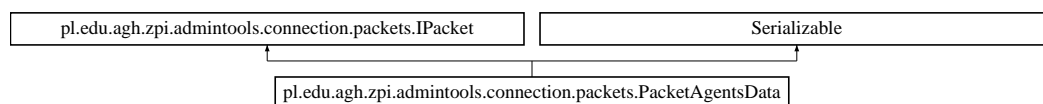
The documentation for this interface was generated from the following file:

- [src/pl/edu/agh/zpi/admintools/connection/packets/IPacket.java](#)

5.13 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.

5.13.1 Detailed Description

Combined agents data.

Definition at line 15 of file PacketAgentsData.java.

5.13.2 Member Function Documentation

5.13.2.1 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](#).

Definition at line 53 of file PacketAgentsData.java.

5.13.2.2 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.

Definition at line 42 of file PacketAgentsData.java.

5.13.2.3 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](#).

Definition at line 68 of file PacketAgentsData.java.

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

Human readable string representation of packet.

Returns

Packet as string.

Definition at line 78 of file PacketAgentsData.java.

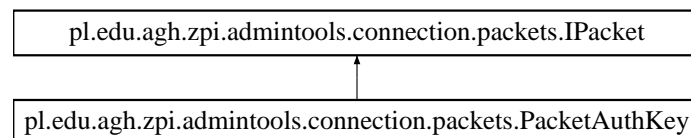
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/packets/PacketAgentsData.java

5.14 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.

5.14.1 Detailed Description

Authentication packet.

Definition at line 12 of file PacketAuthKey.java.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 `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.

Definition at line 31 of file PacketAuthKey.java.

5.14.3 Member Function Documentation

5.14.3.1 `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](#).

Definition at line 64 of file PacketAuthKey.java.

5.14.3.2 `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](#).

Definition at line 72 of file PacketAuthKey.java.

5.14.3.3 `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.

Definition at line 51 of file PacketAuthKey.java.

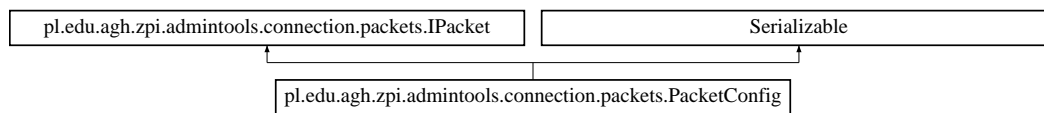
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PackageAuthKey.java`

5.15 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.

5.15.1 Detailed Description

Agent configuration.

Definition at line 14 of file PacketConfig.java.

5.15.2 Constructor & Destructor Documentation

- 5.15.2.1 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>	Tempeprature path.
<i>tempDivider</i>	Tempeprature divider.
<i>servicesConfig</i>	List of services configuration.
<i>interval</i>	Time interval.
<i>name</i>	Agent name.

Definition at line 43 of file PacketConfig.java.

5.15.3 Member Function Documentation

5.15.3.1 `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.

Definition at line 109 of file PacketConfig.java.

5.15.3.2 `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](#).

Definition at line 84 of file PacketConfig.java.

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

Get agent id.

Returns

Agent id.

Definition at line 122 of file PacketConfig.java.

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

Get agent time interval.

Returns

Time interval.

Definition at line 154 of file PacketConfig.java.

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

Get agent name.

Returns

Agent name.

Definition at line 162 of file PacketConfig.java.

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

Get whole services configuration list.

Returns

Services configuration list.

Definition at line 146 of file PacketConfig.java.

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

Get temperature divider.

Returns

Temperature divider.

Definition at line 138 of file PacketConfig.java.

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

Get temperature path.

Returns

Temperature path.

Definition at line 130 of file PacketConfig.java.

5.15.3.9 `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](#).

Definition at line 114 of file PacketConfig.java.

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

Human readable string representation of packet.

Returns

Packet as string.

Definition at line 172 of file PacketConfig.java.

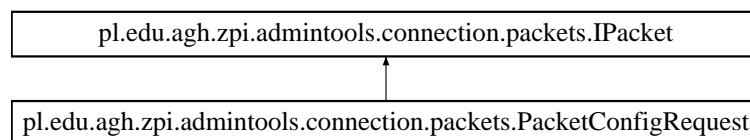
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PacketConfig.java`

5.16 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.

5.16.1 Detailed Description

Requet for agent configuration.

Definition at line 12 of file PacketConfigRequest.java.

5.16.2 Constructor & Destructor Documentation

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

Constructor, set agent id.

Parameters

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

Definition at line 29 of file PacketConfigRequest.java.

5.16.3 Member Function Documentation

5.16.3.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketConfigRequest.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](#).

Definition at line 42 of file PacketConfigRequest.java.

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

Get agent id.

Returns

Agent id.

Definition at line 52 of file PacketConfigRequest.java.

5.16.3.3 `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](#).

Definition at line 57 of file PacketConfigRequest.java.

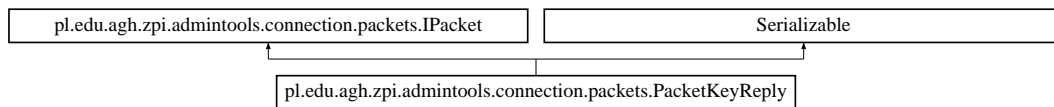
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PacketConfigRequest.java`

5.17 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.

5.17.1 Detailed Description

Packet with authentication key.

Definition at line 12 of file PacketKeyReply.java.

5.17.2 Member Function Documentation

5.17.2.1 `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](#).

Definition at line 33 of file PacketKeyReply.java.

5.17.2.2 `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](#).

Definition at line 39 of file PacketKeyReply.java.

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

Human readable string representation of packet.

Returns

Packet as string.

Definition at line 48 of file PacketKeyReply.java.

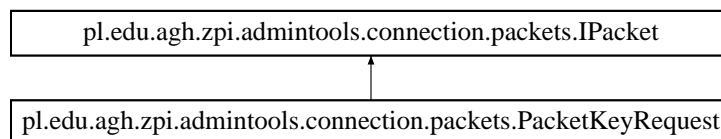
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PacketKeyReply.java`

5.18 [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.

5.18.1 Detailed Description

Packet request for authentication key.

Definition at line 9 of file PacketKeyRequest.java.

5.18.2 Member Function Documentation

5.18.2.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketKeyRequest.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](#).

Definition at line 24 of file PacketKeyRequest.java.

5.18.2.2 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](#).

Definition at line 28 of file PacketKeyRequest.java.

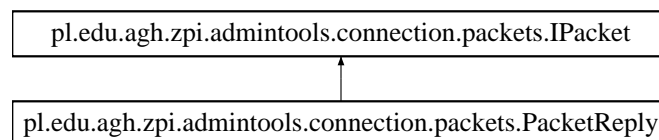
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/packets/PacketKeyRequest.java

5.19 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.

5.19.1 Detailed Description

Packet with request reply value.

Definition at line 12 of file PacketReply.java.

5.19.2 Member Function Documentation

5.19.2.1 void pl.edu.agh.zpi.admintools.connection.packets.PacketReply.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](#).

Definition at line 42 of file PacketReply.java.

5.19.2.2 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](#).

Definition at line 49 of file PacketReply.java.

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

Get reply value.

Returns

Reply value.

Definition at line 29 of file PacketReply.java.

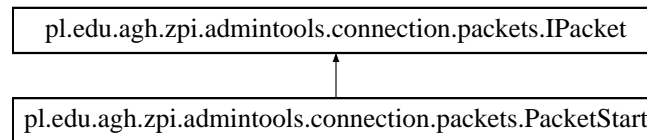
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PacketReply.java`

5.20 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.

5.20.1 Detailed Description

Starting packet.

Definition at line 12 of file PacketStart.java.

5.20.2 Constructor & Destructor Documentation

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

Constructor, set time interval.

Parameters

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

Definition at line 26 of file PacketStart.java.

5.20.3 Member Function Documentation

5.20.3.1 `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](#).

Definition at line 39 of file PacketStart.java.

5.20.3.2 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](#).

Definition at line 46 of file PacketStart.java.

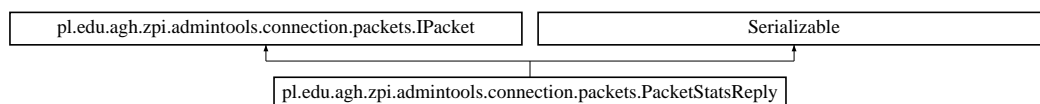
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/packets/PacketStart.java

5.21 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.

5.21.1 Detailed Description

Reply for stats request.

Definition at line 16 of file PacketStatsReply.java.

5.21.2 Member Function Documentation

5.21.2.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsReply.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](#).

Definition at line 38 of file PacketStatsReply.java.

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

Get list with given points.

Returns

List with points.

Definition at line 52 of file PacketStatsReply.java.

5.21.2.3 `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](#).

Definition at line 56 of file PacketStatsReply.java.

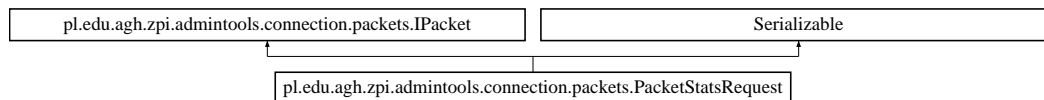
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/PacketStatsReply.java`

5.22 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.

5.22.1 Detailed Description

Stats request from agent.

Definition at line 13 of file PacketStatsRequest.java.

5.22.2 Member Function Documentation

5.22.2.1 `void pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.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](#).

Definition at line 57 of file PacketStatsRequest.java.

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

Get agent with stats id.

Returns

Agent id.

Definition at line 118 of file PacketStatsRequest.java.

5.22.2.3 `public byte pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getDataType ()` `[inline]`

Get data type flag.

Returns

Type flag.

Definition at line 150 of file PacketStatsRequest.java.

5.22.2.4 `public String pl.edu.agh.zpi.admintools.connection.packets.PacketStatsRequest.getDiskName ()` `[inline]`

Get disc name.

Returns

Disc name.

Definition at line 158 of file PacketStatsRequest.java.

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

Get stats end date.

Returns

End date.

Definition at line 134 of file PacketStatsRequest.java.

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

Get stats points.

Returns

Stats points.

Definition at line 142 of file PacketStatsRequest.java.

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

Get stats start date.

Returns

Start date.

Definition at line 126 of file PacketStatsRequest.java.

5.22.2.8 `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](#).

Definition at line 163 of file PacketStatsRequest.java.

5.22.2.9 `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.

Definition at line 65 of file PacketStatsRequest.java.

5.22.2.10 `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.

Definition at line 101 of file PacketStatsRequest.java.

5.22.2.11 `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.

Definition at line 110 of file PacketStatsRequest.java.

5.22.2.12 `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.

Definition at line 83 of file PacketStatsRequest.java.

5.22.2.13 `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.

Definition at line 92 of file PacketStatsRequest.java.

5.22.2.14 `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.

Definition at line 74 of file PacketStatsRequest.java.

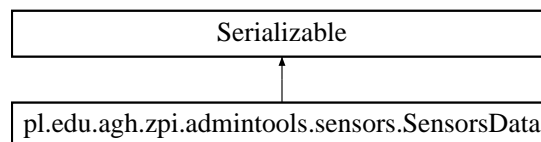
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/connection/packets/PacketStatsRequest.java

5.23 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.

5.23.1 Detailed Description

Sensors data structure as serializable POJO.

Definition at line 11 of file SensorsData.java.

5.23.2 Member Function Documentation

5.23.2.1 **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.

Definition at line 42 of file SensorsData.java.

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

Get currently CPU usage.

Returns

Percent CPU usage.

Definition at line 83 of file SensorsData.java.

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

Get all discs usage.

Returns

List of discs usage.

Definition at line 119 of file SensorsData.java.

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

Get size of currently free RAM memory.

Returns

Free RAM.

Definition at line 101 of file SensorsData.java.

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

Get services basic data.

Returns

List of services data.

Definition at line 128 of file SensorsData.java.

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

Get current CPU temperature.

Returns

CPU temperature.

Definition at line 65 of file SensorsData.java.

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

Get total size of RAM memory.

Returns

Total RAM.

Definition at line 92 of file SensorsData.java.

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

Get system uptime from last restart.

Returns

System uptime.

Definition at line 110 of file SensorsData.java.

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

Check if CPU temperature measurement is valid.

Returns

Is CPU temperature valid.

Definition at line 74 of file SensorsData.java.

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

Convert [SensorsData](#) to string representation.

Returns

String representation.

Definition at line 138 of file SensorsData.java.

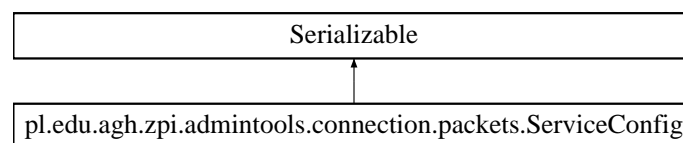
The documentation for this class was generated from the following file:

- src/pl/edu/agh/zpi/admintools/sensors/SensorsData.java

5.24 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)

5.24.1 Detailed Description

Service simple configuration.

Definition at line 11 of file ServiceConfig.java.

5.24.2 Constructor & Destructor Documentation

- 5.24.2.1 `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.

Definition at line 27 of file ServiceConfig.java.

5.24.3 Member Function Documentation

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

Get service name.

Returns

Service name.

Definition at line 64 of file ServiceConfig.java.

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

Get service port.

Returns

Service port.

Definition at line 80 of file ServiceConfig.java.

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

Get service configuration data size.

Returns

Service conf size.

Definition at line 88 of file ServiceConfig.java.

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

Human readable string representation of packet.

Returns

Packet as string.

Definition at line 97 of file ServiceConfig.java.

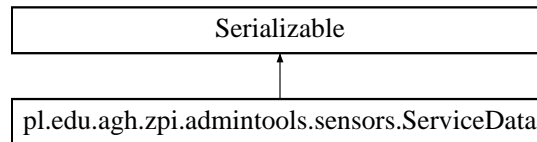
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/connection/packets/ServiceConfig.java`

5.25 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.

5.25.1 Detailed Description

Service data structure as serializable POJO.

Definition at line 10 of file ServiceData.java.

5.25.2 Member Function Documentation

5.25.2.1 **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.

Definition at line 27 of file ServiceData.java.

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

Get service name.

Returns

Service name.

Definition at line 42 of file ServiceData.java.

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

Check service availability.

Returns

If available.

Definition at line 51 of file ServiceData.java.

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

Convert [ServiceData](#) to string representation.

Returns

String representation.

Definition at line 61 of file ServiceData.java.

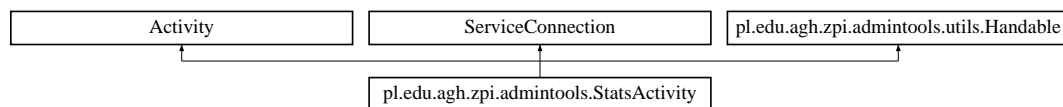
The documentation for this class was generated from the following file:

- `src/pl/edu/agh/zpi/admintools/sensors/ServiceData.java`

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

Activity for interacting and handling agents stats data.

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
Temperature alert threshold.
- static double [HDDAlertLevel](#) = 0.95
HDD usage alert percent threshold.

Protected Member Functions

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

5.26.1 Detailed Description

Activity for interacting and handling agents stats data.

Definition at line 56 of file StatsActivity.java.

5.26.2 Member Function Documentation

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

active alert.

Parameters

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

Returns

None.

Definition at line 658 of file StatsActivity.java.

5.26.2.2 `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](#).

Definition at line 204 of file StatsActivity.java.

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

list buttons.

Parameters

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

Returns

None.

Definition at line 303 of file StatsActivity.java.

5.26.2.4 `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.

Definition at line 588 of file StatsActivity.java.

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

activity creation.

Parameters

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

Returns

None.

Definition at line 91 of file StatsActivity.java.

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

creation of options menu.

Parameters

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

Returns

true.

Definition at line 457 of file StatsActivity.java.

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

Returns

None.

Definition at line 163 of file StatsActivity.java.

5.26.2.8 `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.

Definition at line 561 of file StatsActivity.java.

5.26.2.9 `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.

Definition at line 468 of file StatsActivity.java.

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

None.

Definition at line 187 of file StatsActivity.java.

5.26.2.11 `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.

Definition at line 140 of file StatsActivity.java.

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

on service disconnection.

Parameters

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

Returns

None.

Definition at line 152 of file StatsActivity.java.

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

None.

Definition at line 177 of file StatsActivity.java.

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

Parameters

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

Returns

None.

Definition at line 552 of file StatsActivity.java.

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

- `src/pl/edu/agh/zpi/admintools/StatsActivity.java`

5.27 `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.

5.27.1 Detailed Description

Represents two-dimensional vector as point.

Definition at line 13 of file Vector2D.java.

5.27.2 Constructor & Destructor Documentation

5.27.2.1 `public pl.edu.agh.zpi.admintools.utils.Vector2D.Vector2D (float x, float y)` `[inline]`

Constructor, sets coordinates.

Parameters

x	X coordinate.
y	Y coordinate.

Definition at line 33 of file Vector2D.java.

5.27.3 Member Function Documentation

5.27.3.1 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.add (Vector2D vec)` `[inline]`

Add vector to current vector.

Parameters

vec	Vector2D to add.
---------------------	----------------------------------

Returns

None.

Definition at line 65 of file Vector2D.java.

5.27.3.2 `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.

Definition at line 102 of file Vector2D.java.

5.27.3.3 `public float pl.edu.agh.zpi.admintools.utils.Vector2D.length () [inline]`

Calculate length (magnitued) of current vector.

Returns

Length of vector.

Definition at line 84 of file Vector2D.java.

5.27.3.4 `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.

Definition at line 43 of file Vector2D.java.

5.27.3.5 `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.

Definition at line 54 of file Vector2D.java.

5.27.3.6 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.norm () [inline]`

Normalize current vector.

Returns

None.

Definition at line 92 of file Vector2D.java.

5.27.3.7 `public void pl.edu.agh.zpi.admintools.utils.Vector2D.sub (Vector2D vec) [inline]`

Subtract vector from current vector.

Parameters

<code>vec</code>	Vector2D to subtract.
------------------	---------------------------------------

Returns

None.

Definition at line 75 of file Vector2D.java.

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

- `src/pl/edu/agh/zpi/admintools/utils/Vector2D.java`

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