ZPI_AdminTools

1.0

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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.

4.7 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.

4.7.1 Detailed Description

System information gathering module.

4.8 WinAgent Namespace Reference

Windows agent module.

Classes

- class Server

  Represents server connected to.

Functions

- int recvallWin (SOCKET sockfd, void *data, int size, int timeout)
  Receive data from given socket.
- uint32_t getTicks ()
  Get time elapsed since Epoch in milliseconds.
- vector< string > explode (const string &str, const string &delim)
  Split given text by delimiter.
- void usleep (__int64 usec)
  holds for usec microseconds

4.8.1 Detailed Description

Windows agent module.

4.8.2 Function Documentation

4.8.2.1 vector< string > WinAgent::explode (const string & *str,* const string & *delim*)

Split given text by delimiter.

Parameters

str	Text to explode.
delim	Delimiter.

Returns

Splitted strings.

4.8.2.2 uint32_t WinAgent::getTicks ( )

Get time elapsed since Epoch in milliseconds.

Returns

Time elapsed in milliseconds.

4.8.2.3 int WinAgent::recvallWin (SOCKET *sockfd,* void * *data,* int *size,* int *timeout*)

Receive data from given socket.

Parameters

sockfd	Socket descriptor.
data	Pointer to received data.
size	Number of bytes to be read.
timeout	Time to wait for data.

Returns

Size of received data.

4.8.2.4 void WinAgent::usleep (__int64 *usec*)

holds for usec microseconds

Parameters

usec	microseconds

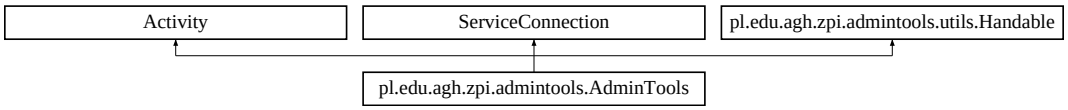
Chapter 5

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 reasume 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

msg	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

requestCode	Request code.
resultCode	Result code.

data	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

view	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

savedInstance-State	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

menu	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

item	Selected menu item.

Returns

If selected.

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

Execute on activity reasume 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

name	Component name.
service	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

name	Component name.

Returns

None.

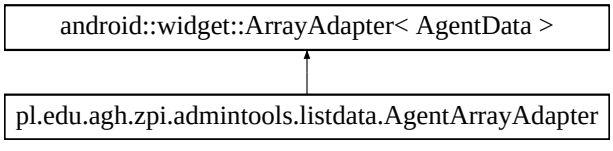
The documentation for this class was generated from the following file:

- 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

context	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

position	Agent data index.
convertView	Source view.
parent	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

position	Agent data index.
agent	Agent data.
isAlerted	Flag with alert information.

Returns

None.

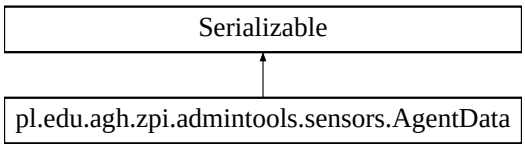
The documentation for this class was generated from the following file:

- 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

o	Object to check.

Returns

If equlas.

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

buffer	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

agent	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:

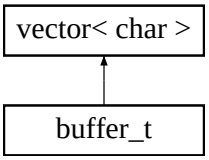
- client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/AgentData.java

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.
- template<typename T >
  bool fetch (T &val)
  Fetch parametrized data from buffer last position.
- bool fetch (string &val)
  Fetch string from buffer last position.
- void rewind ()
  Reset internal pointer.

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

val	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

array	Data to append.

Returns

If succeeded.

5.4.2.3 template<typename T > template< typename T > bool buffer_t::fetch (T & *val*) [inline]

Fetch parametrized data from buffer last position.

Parameters

out	*val*	Fetched value.

Returns

If succeeded.

5.4.2.4 bool buffer_t::fetch (string & *val*) [inline]

Fetch string from buffer last position.

Parameters

out	*val*	Fetched string.

Returns

If succeeded.

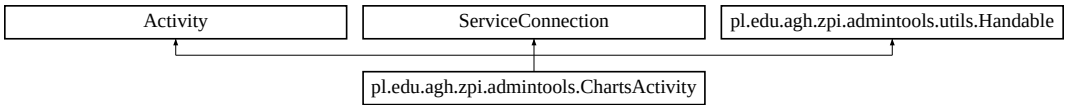
The documentation for this class was generated from the following file:

- 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 reasume 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

msg	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

savedInstance-State	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 reasume 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

name	Component name.
service	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

name	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

minVal	Minimal axis value.
maxVal	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

view	Current View.

Returns

None.

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

Set charts date.

Parameters

view	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

view	Submitted view.

Returns

None.

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

Update charts date.

Returns

None.

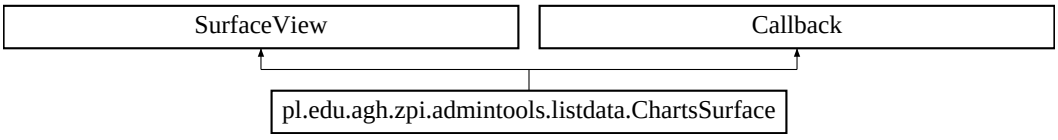
The documentation for this class was generated from the following file:

- 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

context	Context with env global informations.
attrs	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

data	List with series of data.
type	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

holder	Surface holder class.
format	Surface format.
width	Surface width.
height	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

holder	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

holder	Surface holder class.

Returns

None.

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

- 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

fd	Socket descriptor.
ip	Client ip address.
port	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:

- server/client.h
- 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

path	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

key	Key connected with wanted value.
def	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

key	Key connected with wanted value.
def	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

key	Key to check.

Returns

If contained.

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

Save configuration to given file.

Parameters

path	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

key	Key connected with inserted value.
val	Inserted value.

Returns

None.

Parameters

key	Key connected with inserted value.
value	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

key	Key connected with inserted value.
value	Inserted value.

Returns

None.

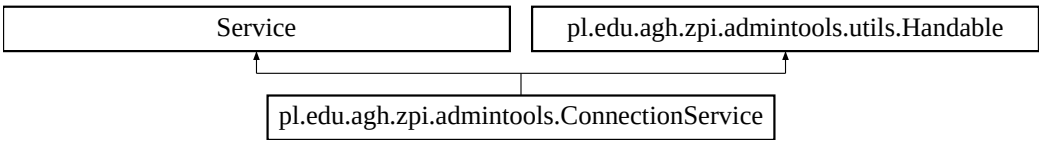
The documentation for this class was generated from the following files:

- common/config.h
- common/configWin.h
- common/config.cpp
- 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.

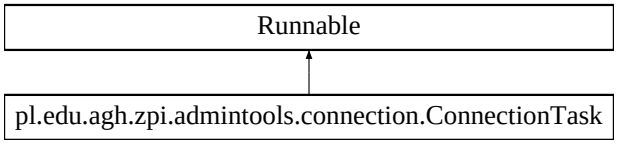
The documentation for this class was generated from the following file:

- 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

host	Host address.
port	Host port.
key	Agent authentication key.
interval	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

packet	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

activity-Messenger	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:

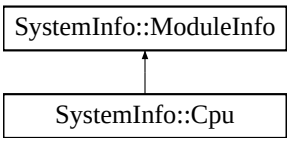
- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/ConnectionTask.java

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:

- 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)

  Isert many data from sensors connected to given agent id.
- static bool insertRecords (const TDBAgent &agent, const vector< TSensorsData > &data)

  Isert 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 void close ()

  Close 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	*id*	Agent id to check.
out	*agent*	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	*key*	Key to check.
out	*agent*	Agent data.

Returns

If succeeded.

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

Generate new key for agent.

Parameters

out	*key*	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	*agentId*	Agent-owner of sensors data.
in	*startDate*	Interval start time.
in	*endDate*	Interval end time.
out	*records*	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

agentId	Agent-owner of sensors data.
data	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

agent	Agent-owner of sensors data.
data	Sensors data.

Returns

If succeeded.

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

Isert many data from sensors connected to given agent id.

Parameters

agentId	Agent-owner of sensors datas.
data	List of sensors datas.

Returns

If succeeded.

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

Isert many data from sensors connected to given agent.

Parameters

agent	Agent-owner of sensors datas.
data	List of sensors datas.

Returns

If succeeded.

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

Open file with database.

Parameters

path	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

in	*agent*	Agent data to update with existing agent id.

Returns

If succeeded.

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

- server/db.h
- 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:

- 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:

- 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 temeprature.
- 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 temeprature.

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.

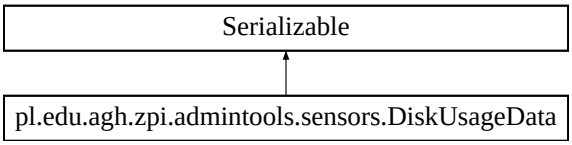
The documentation for this class was generated from the following files:

- agent_win/src/SystemInfo/DiagnosticMgr.h
- 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

buffer	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:

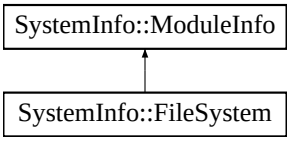
- client/AdminTools/src/pl/edu/agh/zpi/admintools/sensors/DiskUsageData.java

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

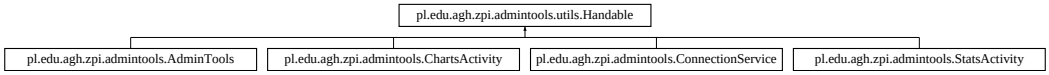
The documentation for this class was generated from the following file:

- 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

msg	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:

- 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

type	Header type.
size	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

array	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

type	Header type.
size	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

size	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

type	Header type flag.

Returns

None.

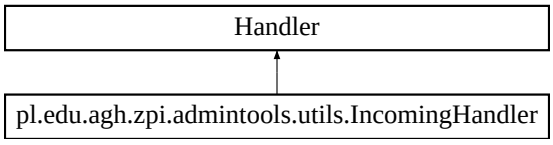
The documentation for this class was generated from the following file:

- 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

handable	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

msg	Message to handle.

Returns

None.

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

- 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

cpuData	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

cpuData	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

fsData	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

fsData	Sigar file system usage data.
dirName	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

resData	Sigar resources data.

Returns

Resources data.

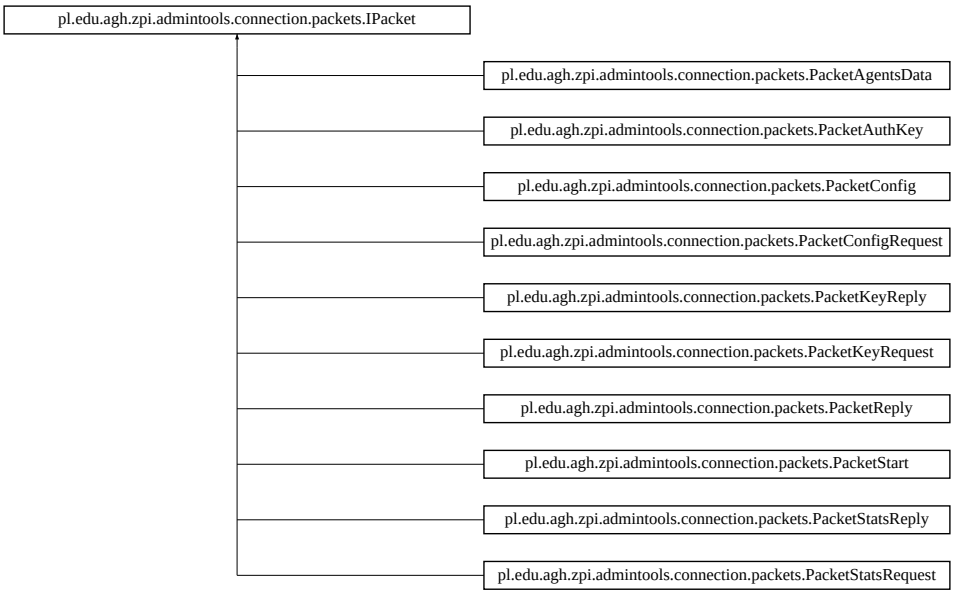
The documentation for this class was generated from the following files:

- agent_win/src/SystemInfo/InfoMapper.h
- 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:

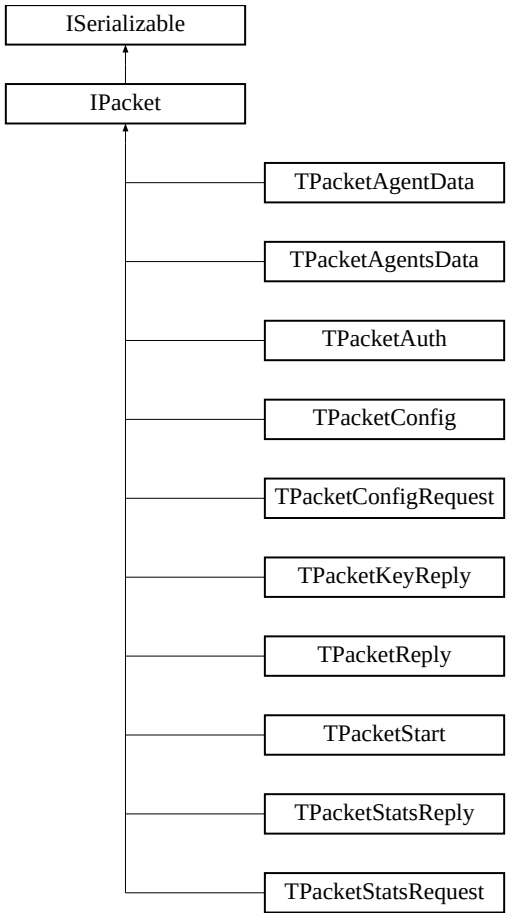
- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/IPacket.java

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:

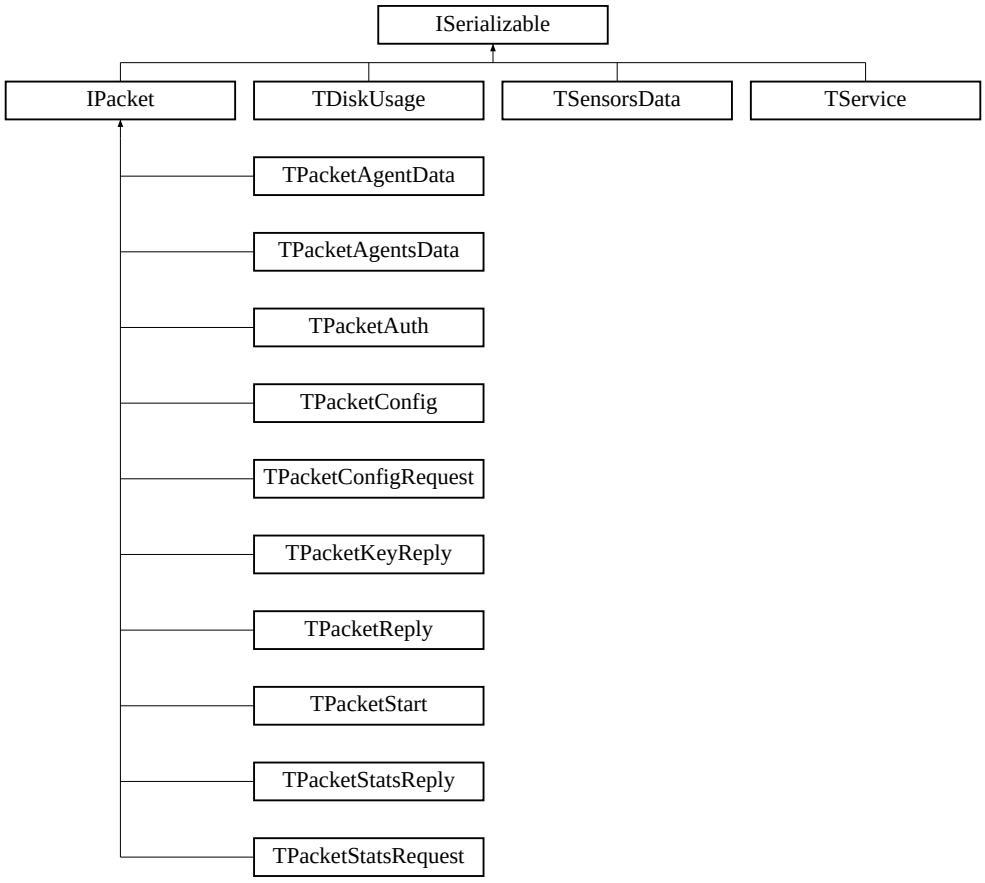
- common/packets.h

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	*buf*	Target buffer.
in	*val*	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	*buf*	Target buffer.
in	*val*	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	*buf*	Source buffer.
out	*val*	Fetched 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*	Fetched 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:

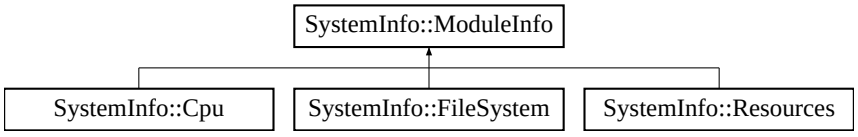
- common/common.h

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 signle 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 / formating 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

name	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

name	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 signle information as pair of label and parameterized pair value of current/max status.

Parameters

description	Description label for value.
current	Parameterized current value to display.
max	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

description	Description label for value.
value	Parameterized value to display.

Returns

None;

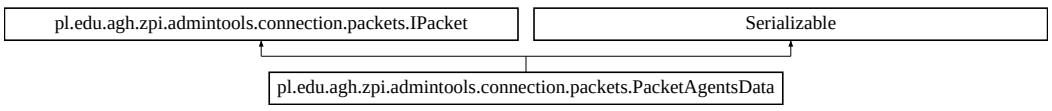
The documentation for this class was generated from the following file:

- 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.

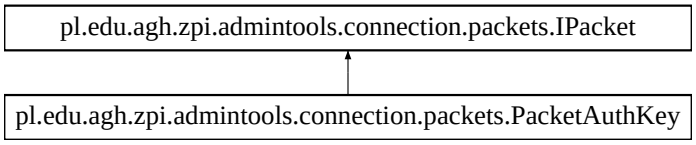
The documentation for this class was generated from the following file:

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

key	Authentication key.
sendConfig	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

in	*array*	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

key	Auth key.

Returns

None.

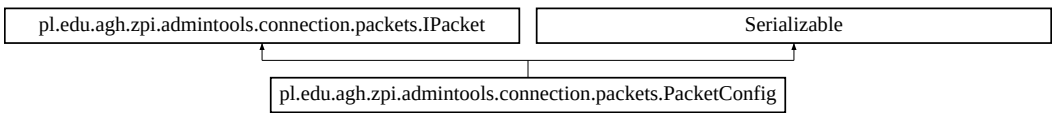
The documentation for this class was generated from the following file:

- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketAuthKey.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

agentId	Agent id.

tempPath	Temeprature path.
tempDivider	Temeprature divider.
servicesConfig	List of services configuration.
interval	Time interval.
name	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

sc	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

in	*array*	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.

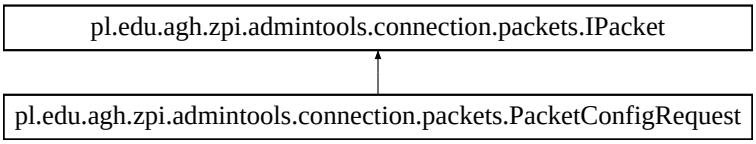
The documentation for this class was generated from the following file:

- 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

agentId	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.

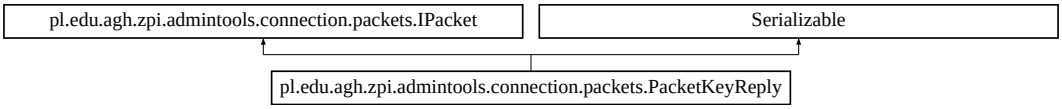
The documentation for this class was generated from the following file:

- 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.

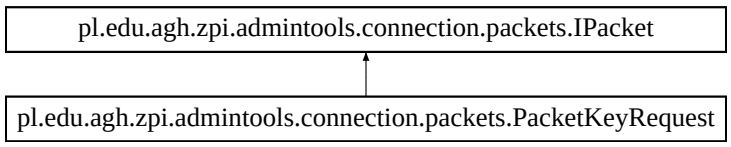
The documentation for this class was generated from the following file:

- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketKeyReply.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

in	*array*	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.

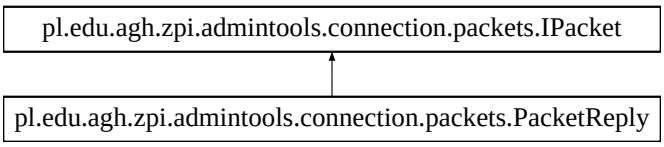
The documentation for this class was generated from the following file:

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

in	*array*	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.

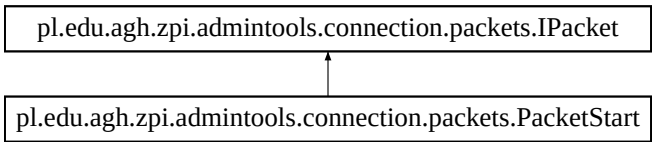
The documentation for this class was generated from the following file:

- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketReply.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

interval	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

in	*array*	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.

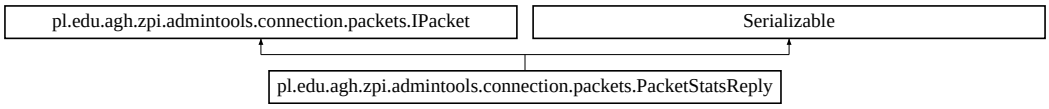
The documentation for this class was generated from the following file:

- 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.

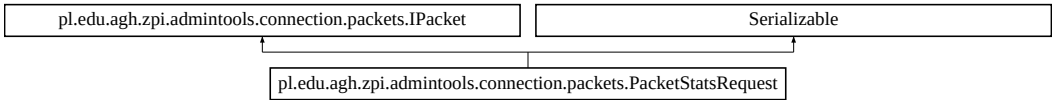
The documentation for this class was generated from the following file:

- 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	*array*	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

agentId	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

dataType	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

diskName	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

endDate	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

points	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

startDate	Stats start date.

Returns

None.

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

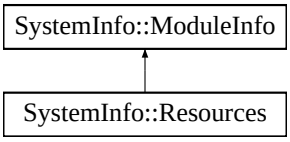
- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/PacketStatsRequest.java

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 ()

  Dispaly 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

  Curent 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]

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

Returns

None

Implements SystemInfo::ModuleInfo.

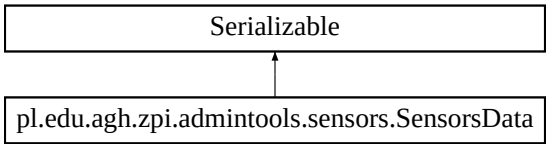
The documentation for this class was generated from the following file:

- 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

buffer	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:

- 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

packet	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

host	Host address.
port	Host port.
key	Authentication key.

Returns

None.

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

- agent_win/src/serverWin.h
- 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

packet	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

host	Host address.
port	Host port.
key	Authentication key.

Returns

None.

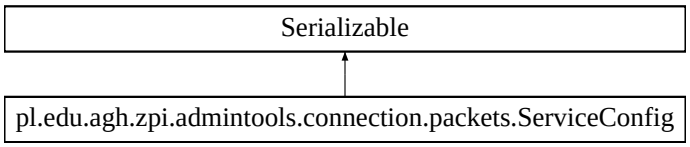
The documentation for this class was generated from the following files:

- agent_lin/server.h
- 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

name	Service name.
isTCP	Service type (TCP/UDP).
port	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.

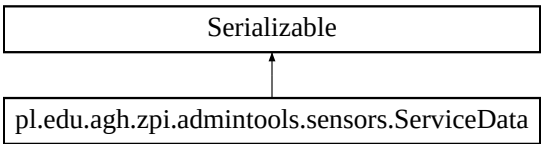
The documentation for this class was generated from the following file:

- client/AdminTools/src/pl/edu/agh/zpi/admintools/connection/packets/ServiceConfig.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

buffer	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.

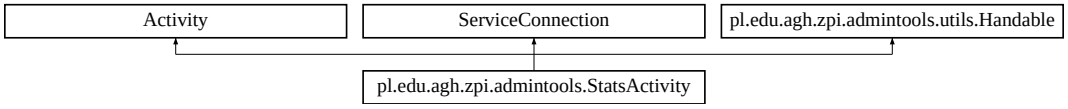
The documentation for this class was generated from the following file:

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

5.42 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)

5.42.1 Detailed Description

Activity 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

view	Current View.

Returns

None.

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

Parameters

msg	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

view	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

resultCode	Result code.
data	Result data.

Returns

None.

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

activity creation.

Parameters

savedInstance-State	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

menu	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

view	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

item	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

name	Component name.
service	Msg binder.

Returns

None.

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

on service disconnection.

Parameters

name	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

view	Current View.

Returns

None.

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

- 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:

- 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:

- 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 tranport 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:

- 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:

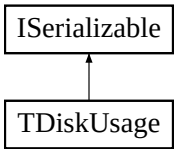
- server/db.h

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

in	*buf*	Buffer data.

Returns

If succeeded.

Implements ISerializable.

5.47.2.2 void TDiskUsage::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:

- 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:

- 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

interval	Time interval.

Returns

None.

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

- 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:

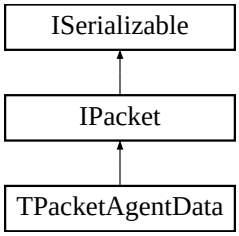
- agent_win/src/SystemInfo/Cpu.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

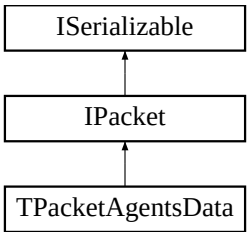
- common/packets.h

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

in	*buf*	Buffer data.

Returns

If succeeded.

Implements ISerializable.

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

Get packet type.

Returns

PACKET_AGENTSDATA.

Implements IPacket.

5.52.2.3 void TPacketAgentsData::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:

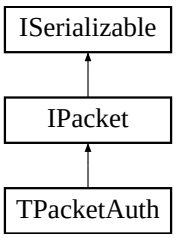
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

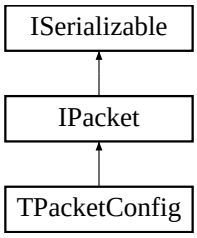
- common/packets.h

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:

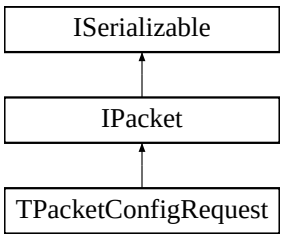
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

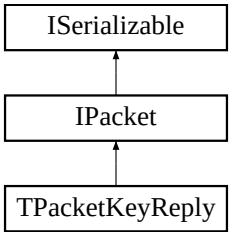
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

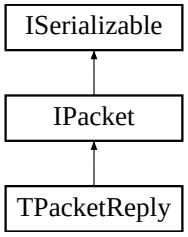
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

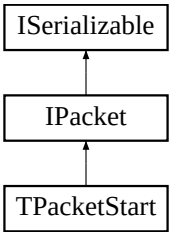
- common/packets.h

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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

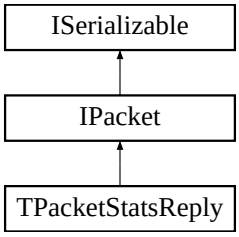
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

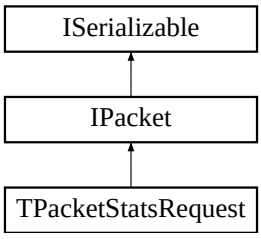
- common/packets.h

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

in	*buf*	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

out	*buf*	Target buffer.

Returns

None.

Implements ISerializable.

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

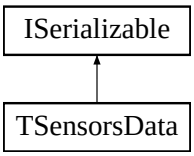
- common/packets.h

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

in	*buf*	Buffer data.

Returns

If succeeded.

Implements ISerializable.

5.61.2.2 void TSensorsData::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:

- 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:

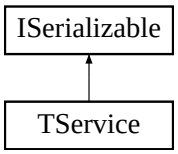
- server/db.h

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

in	*buf*	Buffer data.

Returns

If succeeded.

Implements ISerializable.

5.63.2.2 void TService::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:

- 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:

- 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:

- 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

x	X coordinate.
y	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

vec	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

val	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

a	Vector to multiply.
b	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

vec	Vector2D to subtract.

Returns

None.

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

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

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