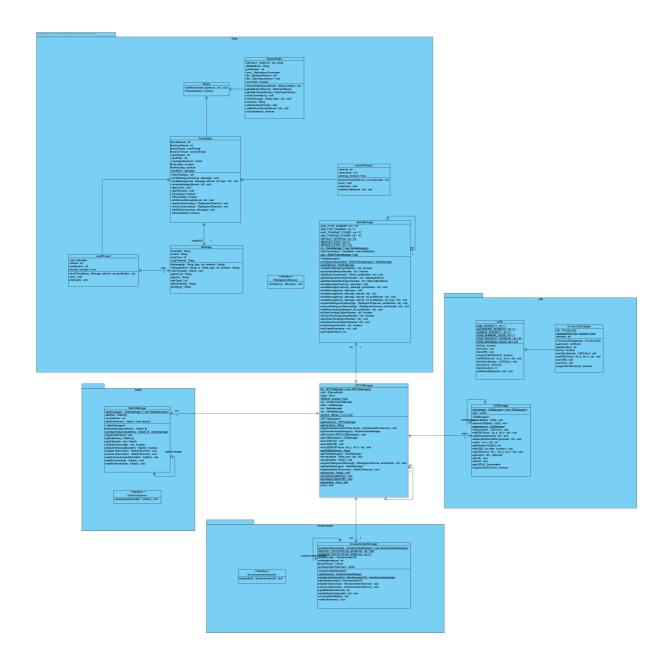


Class Diagram JETTQ



Summary

Name	Documentation
Radio	
StreamRadio	StreamRadio class handles the data stream through the Radio Stream Connection @author JETTQ
■ IRadio	Abstract class for using the SPOT's radio. @author JETTQ
GramRadio	GramRadio class 4 States - Null - Just Sending - Just Receiving - Sending and Receiving @author navien21
recieveThread	This thread class handles the receiving of messages @author JETTQ
RadioManager	Manager class for the SPOT's radio. Used by JETTQManager. @author JETTQ
Message	This class represents a message that is sent from one SPOT to another. It has to and from fields, as well as a String for the content and a type which is represented by an int (User defines it's meaning). @author JETTQ
sendThread	This thread class handles the sending of messages. @author JETTQ
■ IRadiogramObserver	Interface for a GramRadio observer. @author JETTQ
i LED	
ILED	Abstract class for using the LEDs on the SPOT. Implements only the setIntensity method. @author JETTQ [jettq@wpi.edu] @date 09-28-08
TriColorLEDAdapter	The TriColorLEDAdapter extends ILED and handles the Tricolor LEDs on the SPOT. It turns them on and off and adjusts their color. @author JETTQ [jettq@wpi.edu] @date 09-28-08
E LEDManager	The LEDManager class handles the use of the LEDs. @author JETTQ [jettq@wpi.edu] @date 09-28-08
Switch	
SwitchManager	Manager class for the SPOT's switches @author JETTQ [jettq@wpi.edu]
■ ISwitchObserver	Interface for a switch observer @author JETTQ [jettq@wpi.edu]
JETTQManager	Main class of the JETTQ framework. The majority of the SPOT's functionality can be accessed through this. It also holds managers for the LED, Radio, Switch, and Accelerometer components. @author JETTQ [jettq@wpi.edu] @date 09-28-08 CS4233-Team Project
Accelerometer	
AccelerometerManager	Manager class for the SPOT's accelerometer. @author JETTQ [jettq@wpi.edu] @date 09-28-08
■ IAccelerometerObserver	Observer interface for the SPOT's accelerometer @author JETTQ [jettq@wpi.edu] @date 10-10-08

Details

Radio

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
GramRadio	GramRadio class 4 States - Null - Just Sending - Just Receiving - Sending and Receiving @author navien21
IRadio	Abstract class for using the SPOT's radio. @author JETTQ
■ IRadiogramObserver	Interface for a GramRadio observer. @author JETTQ
Message	This class represents a message that is sent from one SPOT to another. It has to and from fields, as well as a String for the content and a type which is represented by an int (User defines it's meaning). @author JETTQ
RadioManager	Manager class for the SPOT's radio. Used by JETTQManager. @author JETTQ
StreamRadio	StreamRadio class handles the data stream through the Radio Stream Connection @author JETTQ

StreamRadio

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	StreamRadio class handles the data stream through the Radio Stream Connection @author JETTQ

private DEFAULT_TIMEOUT : int			
Initial Value	2000		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private IEEEaddress : String			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private portNumber : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private conn	private conn : com.sun.spot.io.j2me.radiostream.RadiostreamConnection			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private dis :	private dis : java.io.DataInputStream			
Initial Value	null			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private dos : java.io.DataOutputStream			
Initial Value	null		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private connected : boolean			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

public StreamRadio (ieeeAddress : String, portNum : int)			
Parameters	ieeeAddress		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
	portNum		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Default constructor. Starts a RadioStreamConnection between this SPOT and the one pointed to by the ieeeAddress @param ieeeAddress String address of the SPOT to stream to @param portNum int representing the port to connect on @throws Exception		
Ordered	false		
Unique	true		
Query	false		

public getDataInputStream () : java.io.DataInputStream		
Static	false	
Leaf	false	
Documentation	Function retrieves the Data Input Stream for the Stream Radio @return DataInputStream	
Ordered	false	
Unique	true	
Query	false	

public getDataOutputStream (): java.io.DataOutputStream		
Static	false	
Leaf	false	
Documentation	Function retrieves the Data Output Stream for the Stream Radio @return DataOutputStream	
Ordered	false	
Unique	true	
Query	false	

public closeConnection () : void			
Static	false		
Leaf	false		
Documentation	Close a RadiostreamConnection		
Ordered	false		
Unique	true		
Query	false		

public send (message : String, value : int) : void			
Parameters	message		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
	value		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Function sends a stream to the Spot on a RadiostreamConnection @param message @param value @throws IOException if an error in the stream @throws NoRouteException		
Ordered	false		
Unique	true		
Query	false		

public receive (): String		
Static	false	
Leaf	false	
Documentation	Function retrieves a stream from another Spot @return the received stream	
Ordered	false	
Unique	true	
Query	false	

public startSendingThread () : void		
Static	false	
Leaf	false	
Documentation	This thread class handles the sending of messages	
Ordered	false	
Unique	true	
Query	false	

package setRetrieveInterval (interval : int) : void			
Parameters	interval		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Function sets the time interval for receiving messages		
Ordered	false		
Unique	true		
Query	false		

package isGuaranteed () : boolean		
Static	false	
Leaf	false	
Documentation	Check if the destination IEEE Address is valid @return true if the given IEEE address is valid; otherwise false	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unamed Generalization		
From	■ IRadio	
Substitutable	false	
Visibility	Unspecified	

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\StreamRadio.java		
Description	Source	
Туре	File	

IRadio

Name	Value	
Active	false	
Business Model	false	
Visibility	package	
Leaf	false	
Root	false	
Documentation	Abstract class for using the SPOT's radio. @author JETTQ	

Operations

package setRetrieveInterval (interval : int) : void		
Parameters	interval	
	Multiplicity	Unspecified
	Туре	o int
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

package isGuaranteed () : boolean			
Static	false		
Leaf	false		
Documentation	Returns whether the radio transmission is guaranteed or not. The transmission is guaranteed if it is a StreamRadio or a GramRadio that is not broadcasting @return guaranteed true if ACKing		
Ordered	false		
Unique	true		
Query	false		

Relationships

Unamed Generalization		
То	■ GramRadio	
Substitutable	false	
Visibility	Unspecified	

Unamed Generalization		
То	StreamRadio	
Substitutable	false	
Visibility	Unspecified	

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\IRadio.java				
Description	Description Source			
Туре	File			

GramRadio

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	GramRadio class 4 States - Null - Just Sending - Just Receiving - Sending and Receiving @author navien21

Children

Name	Documentation
recieveThread	This thread class handles the receiving of messages @author JETTQ
sendThread	This thread class handles the sending of messages. @author JETTQ

protected sendInterval : int					
Getter	alse Setter false				
Derived	false				
Multiplicity	Unspecified				
Aggregation	None				

protected receiveInterval : int					
Getter	alse Setter false				
Derived	false				
Multiplicity	Unspecified				
Aggregation	None				

protected sendThread : sendThread				
Getter	false Setter false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			·

protected receiveThread : recieveThread				
Getter	false Setter false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

package portNumber : int				
Documenta	Documentation port number			
Getter	fals	e Setter false		
Derived	Derived false			
Multiplicity Unspecified				
Aggregatio	Aggregation None			

package spotHops : int				
Getter	alse Setter false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

package messageReceivers : java.util.Vector				
Documentation		a list of devices which will receive the message		
Getter	false		Setter	false
Derived		false		
Multiplicity		Unspecified		
Aggregation		None		

protected isSending : boolean				
Documentation		status of sending and receiving		
Getter	Getter false		Setter	false
Derived		false		
Multiplicity		Unspecified		
Aggregation		None		

protected isReceiving : boolean				
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private sendMSG : Message			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation None			

package GramRadio (pn : int)		
Parameters	pn	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Constructor of a gram radio connection @param pn port number used for the gram radio connection	
Ordered	false	
Unique	true	
Query	false	

package sendMessageOnce (msg : Message) : void			
Parameters	msg		
	Multiplicity	Unspecified	
	Туре	Message	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Broadcast a single message. This method does not try to re-send the message. @param msg Message object to broadcast		
Ordered	false		
Unique	true		
Query	false		

package sendMe	ssage (msg : N	Message, interval : int, hops : int) : void
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	interval	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
	hops	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Function sends a Datagram message to another device @param msg message to be sent @param interval time interval of sending a message @param hops **IGNORED** Not implemented in this file release.	
Ordered	false	
Unique	true	
Query	false	

package recieveMessage (interval : int) : void		
Parameters	interval	
	Multiplicity Unspecified	
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Function retrieves a Datagram message from other devices @param interval time interval of receiving a message	
Ordered	false	
Unique	true	
Query	false	

package stopSend () : void		
Static	false	
Leaf	false	
Documentation	Function stops sending the message	
Ordered	false	
Unique	true	
Query	false	

package stopReceive () : void		
Static	false	
Leaf	false	
Documentation	Function stops receiving the message	
Ordered	false	
Unique	true	
Query	false	

package isSending () : boolean		
Static	false	
Leaf	false	
Documentation	Check if the device is still sending the message @return true if the device is sending a message; otherwise false	
Ordered	false	
Unique	true	
Query	false	

package isReceiv	package isReceiving (): boolean		
Static	false		
Leaf	false		
Documentation	Check if the device is still receiving the message @return true if the device is receiving a message; otherwise false		
Ordered	false		
Unique	true		
Query	false		

package setRetrieveInterval (interval : int) : void				
Parameters	interval			
	Multiplicity	Unspecified		
	Туре	o int		
	Direction inout			
Static	false			
Leaf	false			
Documentation	Function sets the time interval for retrieving the message @param interval new time interval for retrieving the message			
Ordered	false			
Unique	true			
Query	false			

package registerObserver (irgo : IRadiogramObserver) : void					
Parameters	irgo				
	Multiplicity Unspecified				
	Туре	Type IRadiogramObserver			
	Direction	inout			
Static	false				
Leaf	false				
Documentation	Register a Radiogram observer @param irgo a RadiogramObserver to be registered				
Ordered	false				
Unique	true				
Query	false				

package removeObserver (irgo : IRadiogramObserver) : void					
Parameters	irgo				
	Multiplicity	Unspecified			
	Туре	■ IRadiogramObserver			
	Direction	Direction inout			
Static	false				
Leaf	false				
Documentation	Remove a Radiogram observer @param irgo a RadiogramObserver to be remove				
Ordered	false				
Unique	true				
Query	false				

package notifyObservers (msg : Message) : void			
Parameters	msg		
	Multiplicity	Unspecified	
	Туре	Message	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Notify the Observer @param msg new message		
Ordered	false		
Unique	true		
Query	false		

package isGuaranteed () : boolean		
Static	false	
Leaf	false	
Documentation	Check if the destination IEEE Address is valid Is not implemented in this release @return true if a valid IEEE address is specified; otherwise false	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unamed Gener	Unamed Generalization		
From	■ IRadio		
Substitutable	false		
Visibility	Unspecified		

Unamed Association				
To (sendMSG)	Name	Value		
	End Model Element	Message		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	true		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\GramRadio.java		
Description	Source	
Туре	File	

recieveThread

Name	Value
Active	false
Business Model	false
Visibility	private
Leaf	false
Root	false
Documentation	This thread class handles the receiving of messages @author JETTQ

package interval : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

package portnumber : int			
Getter	alse Setter false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

public running : boolean			
Initial Value	true		
Getter	alse Setter false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

public recieveTh	public recieveThread (interval : int, portnumber : int)			
Parameters	interval			
	Multiplicity	Unspecified		
	Туре	int int		
	Direction	inout		
	portnumber			
	Multiplicity	Unspecified		
	Туре	o int		
	Direction	inout		
Static	false			
Leaf	false			
Documentation	Default constructor @param interval Time in milliseconds to check for a message again @param portnumber Port to check for messages			
Ordered	false			
Unique	true			
Query	false			

public run () : voi	public run () : void			
Static	false			
Leaf	false			
Documentation	The run method sets up the connection, checks for messages, and notifies any observers when a message is received.			
Ordered	false			
Unique	true			
Query	false			

public interrupt (public interrupt (): void			
Static	false			
Leaf	false			
Documentation	Stops checking for messages.			
Ordered	false			
Unique	true			
Query	false			

public setInterval (interval : int) : void				
Parameters	interval			
	Multiplicity	Unspecified		
	Туре	o int		
	Direction inout			
Static	false			
Leaf	false			
Documentation	Sets the interval to check for messages. @param interval Time in milliseconds to re-check.			
Ordered	false			
Unique	true			
Query	false			

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\GramRadio.java				
Description	on Source			
Туре	File			

RadioManager

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	Manager class for the SPOT's radio. Used by JETTQManager. @author JETTQ

private MAX_PORT_NUMBER : int				
Initial Value	127			
Getter	alse Setter false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private MIN_PORT_NUMBER : int				
Initial Value	0			
Getter	alse Setter false		false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private MAX_TRANSMIT_POWER : int				
Initial Value	32			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private MIN_TRANSMIT_POWER : int				
Initial Value	-32			
Getter	alse Setter false			
Derived	false	false		
Multiplicity	Unspecified			
Aggregation	None			

private DEFAULT_INTERVAL : int				
Documenta	tion	default time interval for receiving a message		
Initial Value	!	50		
Getter	fals	е	Setter	false
Derived false				
Multiplicity Unspecified				
Aggregation	ı	None		

private DEFAULT_HOPS : int					
Initial Value	0	0			
Getter	false	alse Setter false			
Derived	false	false			
Multiplicity	Unspecified				
Aggregation	None				

private DEFAULT_PORT : int			
Initial Value	101		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private rm : RadioManager				
Initial Value	new RadioManager()	new RadioManager()		
Getter	alse Setter false		false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private radioConnections : java.util.Hashtable				
Initial Value	new Hashtable()			
Getter	false	alse Setter false		
Derived	false	false		
Multiplicity	Unspecified			
Aggregation	None			

private rpm : com.sun.spot.peripheral.radio.lRadioPolicyManager				
Initial Value	null			
Getter	false	alse Setter false		
Derived	false	false		
Multiplicity	Unspecified			
Aggregation	None			

package RadioManager ()		
Static	false	
Leaf	false	
Documentation	Default Constructor	
Ordered	false	
Unique	true	
Query	false	

public configureInstance (irpm : com.sun.spot.peripheral.radio.lRadioPolicyManager) : RadioManager			
Parameters	irpm		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.peripheral.radio.IRadioPolicyManager	
	Direction	inout	
Static	false		
Leaf	false		
Ordered	false		
Unique	true		
Query	false		

public getInstance () : RadioManager		
Static	false	
Leaf	false	
Documentation	Returns an instance of the RadioManager @return This RadioManager	
Ordered	false	
Unique	true	
Query	false	

private isValidPortNumber (portNumber : int) : boolean		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Check if the given port number is valid @param portNumber port number to be checked @return true if the port number is valid; otherwise false	
Ordered	false	
Unique	true	
Query	false	

public portlsAvailable (portNumber : int) : boolean		
Parameters portNumber		
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Checks to see if the given port is available @param portNumber Port to check @return true if the port is available, false otherwise	
Ordered	false	
Unique	true	
Query	false	

public addRadio	Connection (ir	: IRadio, portNumber : int) : void
Parameters	ir	
	Multiplicity	Unspecified
	Туре	■ IRadio
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Adds a radio connection to the list of connections @param ir IRadio to connect @param portNumber Port to connect on	
Ordered	false	
Unique	true	
Query	false	

public getDataInputStream (portNumber : int) : java.io.DataInputStream		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	o int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Gets the DataInputStream to steam to another SPOT @param portNumber Port to stream on @return DataInputStream to write to	
Ordered	false	
Unique	true	
Query	false	

public getDataOutputStream (portNumber : int) : java.io.DataOutputStream		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Gets the DataOutputStream for a stream from another SPOT @param portNumber Port to stream on @return DataOutputStream to read from	
Ordered	false	
Unique	true	
Query	false	

public sendMessageOnce (msg : Message) : void		
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
Static	false	
Leaf	false	
Documentation	Sends a message without re-sending on the default port. @param msg Message object to send	
Ordered	false	
Unique	true	
Query	false	

public sendMess	ageOnce (msg	: Message, portNumber : int) : void
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Send a message without re-sending on the specified port @param msg Message object to send. @param portNumber Port to send on.	
Ordered	false	
Unique	true	
Query	false	

public sendMessage (msg : Message) : void		
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
Static	false	
Leaf	false	
Documentation	Broadcasts a message with a default re-send interval on the default port. @param msg Message object to send.	
Ordered	false	
Unique	true	
Query	false	

public sendMessage (msg : Message, interval : int) : void		
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	interval	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Broadcasts a message with the specified re-send interval on the default port. @param msg Message object to send @param interval Time in milliseconds to resend.	
Ordered	false	
Unique	true	
Query	false	

public sendMess	age (msg : Me	ssage, interval : int, portNumber : int) : void
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	interval	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
	(1)	
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Sends a message on the specified port with the specified re-send interval @param msg Message object to send @param interval Time in milliseconds to re-send @param portNumber Port to send on	
Ordered	false	
Unique	true	
Query	false	

public sendMess	age (msg : Me	ssage, interval : int, portNumber : int, hops : int) : void
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	interval	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
		int int
	Туре	
	Direction	inout
	hops	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Broadcasts a message on the GramRadio @param msg Message object to send @param interval Time in milliseconds to re-send @param portNumber Port to broadcast on @param hops Not implemented in this file release.	
Ordered	false	
Unique	true	
Query	false	

public registerRa	adiogramLister	ner (irgo : IRadiogramObserver, portNumber : int) : void
Parameters	irgo	
	Multiplicity	Unspecified
	Туре	■ IRadiogramObserver
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Registers a listener to the GramRadio on a given port @param irgo IRadiogramObserver to register @param portNumber Port to listen on	
Ordered	false	
Unique	true	
Query	false	

public removeRa	diogramObser	ver (irgo : IRadiogramObserver, portNumber : int) : void	
Parameters	irgo		
	Multiplicity	Unspecified	
	Туре	■ IRadiogramObserver	
	Direction	inout	
	portNumber		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Removes the given listener from the given port @param irgo IRadiogramObserver to remove @param portNumber Port to stop listening on		
Ordered	false		
Unique	true		
Query	false		

public setRetrieveInterval (interval : int, portNumber : int) : void		
Parameters	interval	
	Multiplicity	Unspecified
	Туре	o int
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Sets the message retrieval interval @param interval Time in milliseconds to retrieve messages @param portNumber Port to retrieve on	
Ordered	false	
Unique	true	
Query	false	

public isGramSendingOn (portNumber : int) : boolean		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Checks if the GramRadio is sending on the given port @param portNumber Port to check @return true if the GramRadio is sending on the port, false otherwise	
Ordered	false	
Unique	true	
Query	false	

public isGramReceivingOn (portNumber : int) : boolean		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	o int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Checks if the GramRadio is receiving on the given port @param portNumber Port to check @return true if the GramRadio is receiving on the port, false otherwise	
Ordered	false	
Unique	true	
Query	false	

public stopGramSending (portNumber : int) : void		
Parameters	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Tells the GramRadio to stop sending on the given port @param portNumber Port to stop sending on	
Ordered	false	
Unique	true	
Query	false	

public stopGramReceiving (portNumber : int) : void			
Parameters	portNumber		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Tells the GramRadio to stop receiving on a given port @param portNumber Port to stop receiving on		
Ordered	false		
Unique	true		
Query	false		

public resetPort (portNumber : int) : boolean			
Parameters	portNumber		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Closes the connection on the specified port. @param portNumber Port to close @return true if a connection is closed, false otherwise		
Ordered	false		
Unique	true		
Query	false		

public setOutputPower (pow : int) : void				
Parameters	pow			
	Multiplicity	Unspecified		
	Туре	int int		
	Direction	Direction inout		
Static	false			
Leaf	false			
Documentation	Function sets the output power of the radio to the given value @param pow The new output power level			
Ordered	false			
Unique	true			
Query	false			

public getOutputPower (): int			
Static	false		
Leaf	false		
Documentation	Function return the current output power of the radio @return int representing the output power		
Ordered	false		
Unique	true		
Query	false		

Relationships

Haramarah A	Unamed Association				
Unamed A	Association				
To (rm)	Name	Value			
	End Model Element	RadioManager			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	1			
	Visibility	private			
	Aggregation Kind	None			
	Navigable	true			
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				

Unamed A	Unamed Association			
From	Name	Value		
	End Model Element	JETTQManager		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	private		
	Aggregation Kind	None		
	Navigable false			
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			

Unamed A	Unamed Association				
From	Name	Value			
	End Model Element	RadioManager			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	Unspecified			
	Visibility	private			
	Aggregation Kind	None			
	Navigable	false			
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\RadioManager.java		
Description	Source	
Туре	File	

Message

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	This class represents a message that is sent from one SPOT to another. It has to and from fields, as well as a String for the content and a type which is represented by an int (User defines it's meaning). @author JETTQ

private fromAddr : String				
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private toAddr : String				
Getter	alse Setter false			
Derived	false	false		
Multiplicity	Unspecified			
Aggregation	None			

private msgType : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private msgContents : String					
Getter	false	Setter	false		
Derived	false				
Multiplicity	Unspecified				
Aggregation	None				

public Message (to : String, type : int, contents : String)				
Parameters	to . String, typ	e . III., contents . String)		
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	type			
	Multiplicity	Unspecified		
	Туре	o int		
	Direction	inout		
	contents			
	contents			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
Static	false			
Leaf	false			
Documentation	Default public constructor @param to IEEE address of the SPOT the message is being sent to @param type Type of the message. @param contents String content of the message			
Ordered	false			
Unique	true			
Query	false			

package Message (from : String, to : String, type : int, contents : String)						
Parameters	from					
	Multiplicity	Unspecified				
	Туре	String				
	Direction	inout				
	to					
	Multiplicity	Unspecified				
	Туре	String				
	Direction	inout				
	type					
	Multiplicity	Unspecified				
	Туре	o int				
	Direction	inout				
	contents					
	Multiplicity	Unspecified				
	Туре	String				
	Direction	inout				
Static	false					
Leaf	false					
Ordered	false					
Unique	true					
Query	false					

package setFrom (addr : String) : void				
Parameters	addr			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
Static	false			
Leaf	false			
Documentation	Sets the from address @param addr IEEE address of the SPOT sending the message.			
Ordered	false			
Unique	true			
Query	false			

public getFrom () : String		
Static	false	
Leaf	false	
Documentation	Get the from address @return IEEE address of the SPOT sending the message	
Ordered	false	
Unique	true	
Query	false	

public getTo () : 5	public getTo () : String		
Static	false		
Leaf	false		
Documentation	Get the to address @return IEEE address of the SPOT the message is being sent to		
Ordered	false		
Unique	true		
Query	false		

public getType () : int		
Static	false	
Leaf	false	
Documentation	Get the type of the message @return Type of message	
Ordered	false	
Unique	true	
Query	false	

public getContents () : String		
Static	false	
Leaf	false	
Documentation	Get the contents of the message @return String representing the contents	
Ordered	false	
Unique	true	
Query	false	

public toString ()	: String
Static	false
Leaf	false
Documentation	Prints the message in the following form: =====MSG===== To: [toAddr] From: [fromAddr] Type: [type] Contents: [msgContents] =====END=====
Ordered	false
Unique	true
Query	false

Unamed A	Unamed Association		
From	Name	Value	
	End Model Element	GramRadio	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed A	Unamed Association		
From	Name	Value	
	End Model Element	sendThread	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\Message.java		
Description	Source	
Туре	File	

sendThread

Name	Value
Active	false
Business Model	false
Visibility	private
Leaf	false
Root	false
Documentation	This thread class handles the sending of messages. @author JETTQ

package msg : Message			
Getter	false Setter		false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

package interval : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

package portNumber : int			
Getter	false Setter false		false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private running : boolean			
Initial Value	true		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

package sendThread (msg : Message, interval : int, portNumber : int)		
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
	interval	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
portNum		
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Default constructor @param msg Message object to send @param interval Time in milliseconds to resend @param portNumber Port to send on	
Ordered	false	
Unique	true	
Query	false	

public run () : void		
Static	false	
Leaf	false	
Documentation	The run method sets up the connection and sends the message.	
Ordered	false	
Unique	true	
Query	false	

public interrupt () : void		
Static	false	
Leaf	false	
Documentation	Stops the sending	
Ordered	false	
Unique	true	
Query	false	

Unamed As	Unamed Association		
To (msg)	Name	Value	
	End Model Element	Message	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	package	
	Aggregation Kind	None	
	Navigable	true	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\GramRadio.java	
Description	Source
Туре	File

IRadiogramObserver

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Stereotypes	Interface
Documentation	Interface for a GramRadio observer. @author JETTQ

public update (msg : Message) : void		
Parameters	msg	
	Multiplicity	Unspecified
	Туре	Message
	Direction	inout
Static	false	
Leaf	false	
Documentation	Updates when a message is sent or received. @param msg Message object being sent or received	
Ordered	false	
Unique	true	
Query	false	

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Radio\lRadiogramObserver.java		
Description	Source	
Туре	File	

LED

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
ILED	Abstract class for using the LEDs on the SPOT. Implements only the setIntensity method. @author JETTQ [jettq@wpi.edu] @date 09-28-08
E LEDManager	The LEDManager class handles the use of the LEDs. @author JETTQ [jettq@wpi.edu] @date 09-28-08
TriColorLEDAdapter	The TriColorLEDAdapter extends ILED and handles the Tricolor LEDs on the SPOT. It turns them on and off and adjusts their color. @author JETTQ [jettq@wpi.edu] @date 09-28-08



Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	Abstract class for using the LEDs on the SPOT. Implements only the setIntensity method. @author JETTQ [jettq@wpi.edu] @date 09-28-08

public DIM_II	public DIM_INTENSITY : int				
Initial Value	1	1			
Getter	false	alse Setter false			
Derived	false	false			
Multiplicity	Unspecified				
Aggregation	None				

public MODE	public MODERATE_INTENSITY : int			
Initial Value	2			
Getter	alse Setter false		false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

public BRIGHT_INTENSITY : int			
Initial Value	3		
Getter	alse Setter false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

public RGB_MINIMUM_VALUE : int				
Initial Value	0	0		
Getter	false	Setter false		
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

public RGB_	public RGB_INTENSITY_INTERVAL : int			
Initial Value	85			
Getter	false	alse Setter false		
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

public RGB_MAXIMUM_VALUE : int				
Documentation MAX RGB / # intensity intervals				
Initial Value 255				
Getter	fals	е	Setter	false
Derived		false		
Multiplicity		Unspecified		
Aggregation		None		

public isOn () : boolean		
Static	false	
Leaf	false	
Documentation	Function determines whether or not the LED is ON @return True if on, False otherwise	
Ordered	false	
Unique	true	
Query	false	

public turnOn () : void		
Static	false	
Leaf	false	
Documentation	Function turns ON the LED	
Ordered	false	
Unique	true	
Query	false	

public turnOff ()	public turnOff (): void		
Static	false		
Leaf	false		
Documentation	Function turns OFF the LED		
Ordered	false		
Unique	true		
Query	false		

public supportsRGBColors () : boolean		
Static	false	
Leaf	false	
Documentation	Function determines if an LED supports RGB Color codes @return True if LED supports RGB color codes, false otherwise	
Ordered	false	
Unique	true	
Query	false	

public setRGBCc	olor (r : int, g : i	int, b : int) : void	
Parameters	r		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	g		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
	b		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Function sets the Color displayed by the LED @param r Int representing the RED color value (0-255) @param g Int representing the GREEN color value (0-255) @param b Int representing the BLUE color value (0-255)		
Ordered	false		
Unique	true		
Query	false		

public setColor (ledcolor : com.sun.spot.sensorboard.peripheral.LEDColor) : void			
Parameters	ledcolor		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.LEDColor	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Function set the Color as specified in the given LEDColor object @param ledcolor The LEDColor object containing the color to display		
Ordered	false		
Unique	true		
Query	false		

public getColor (public getColor () : com.sun.spot.sensorboard.peripheral.LEDColor		
Static	false		
Leaf	false		
Documentation	Function gets the current Color as a LEDColor object @return the LEDColor of the LED		
Ordered	false		
Unique	true		
Query	false		

public getIntensity (): int		
Static	false	
Leaf	false	
Documentation	Function retrieves the current display Intensity @return int representing how bright the LED is.	
Ordered	false	
Unique	true	
Query	false	

public setIntensity (intensity : int) : void		
Parameters	intensity	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Function sets the current display Intensity @param intensity The new Intensity	
Ordered	false	
Unique	true	
Query	false	

Unamed Generalization	
То	TriColorLEDAdapter
Substitutable	false
Visibility	Unspecified

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\LED\ILED.java		
Description	Source	
Туре	File	

TriColorLEDAdapter

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	The TriColorLEDAdapter extends ILED and handles the Tricolor LEDs on the SPOT. It turns them on and off and adjusts their color. @author JETTQ [jettq@wpi.edu] @date 09-28-08

Attributes

private itcl : com.sun.spot.sensorboard.peripheral.ITriColorLED			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private supportsRGBColor : boolean				
Initial Value	true			
Getter	false	Sette	r false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private intensity : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	tiplicity Unspecified		
Aggregation	None		

public TriColorLEDAdapter (tcl : com.sun.spot.sensorboard.peripheral.ITriColorLED)			
Parameters	tcl		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.ITriColorLED	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	TriColorLED constructor @param tcl the TriColor LED		
Ordered	false		
Unique	true		
Query	false		

public getColor () : com.sun.spot.sensorboard.peripheral.LEDColor		
Static	false	
Leaf	false	
Documentation	Gets the LED color of the TriColorLED @return the led color	
Ordered	false	
Unique	true	
Query	false	

public getIntensity () : int		
Static	false	
Leaf	false	
Documentation	Gets the intensity of the TriColorLED @return the intensity	
Ordered	false	
Unique	true	
Query	false	

public isOn () : boolean		
Static	false	
Leaf	false	
Documentation	Checks if the TriColorLED is on @return true if the TriColorLED is on, false if it is off	
Ordered	false	
Unique	true	
Query	false	

public setColor (ledcolor : com.sun.spot.sensorboard.peripheral.LEDColor) : void						
Parameters	ledcolor					
	Multiplicity	Multiplicity Unspecified				
	Туре	Гуре com.sun.spot.sensorboard.peripheral.LEDColor				
	Direction	Direction inout				
Static	false					
Leaf	false					
Documentation	Set the LED color of the TriColorLED @param ledcolor the led color that the TriColorLED will be set to					
Ordered	false					
Unique	true					
Query	false					

public setRGBColor (r : int, g : int, b : int) : void			
Parameters	r		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
	-		
	g Markindinia		
	Multiplicity	Unspecified	
	Туре	int	
	Direction	inout	
	b		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Sets the RGB color of the TriColorLED r the red value of the associated led g the green value of the associated led b the blue value of the associated led		
Ordered	false		
Unique	true		
Query	false		

public turnOff (): void		
Static	false	
Leaf	false	
Documentation	Turns off the TriColorLED	
Ordered	false	
Unique	true	
Query	false	

public turnOn () :	public turnOn () : void		
Static	false		
Leaf	false		
Documentation	Turns on the TriColorLED		
Ordered	false		
Unique	true		
Query	false		

public supportsRGBColors () : boolean		
Static	false	
Leaf	false	
Documentation	Verifies if the TriColorLED support RGB colors @return true if it does support rgb colors, false if it does not	
Ordered	false	
Unique	true	
Query	false	

Unamed Generalization	
From	■ ILED
Substitutable	false
Visibility	Unspecified

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\LED\TriColorLEDAdapter.java		
Description	Source	
Туре	File	

LEDManager

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	The LEDManager class handles the use of the LEDs. @author JETTQ [jettq@wpi.edu] @date 09-28-08

private ledmanager : LEDManager			
Initial Value	new LEDManager()		
Getter	slse Setter false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private leds : java.util.Vector			
Getter	false Setter false		false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private LE	private LEDManager ()		
Static	false		
Leaf	false		
Ordered	false		
Unique	true		
Query	false		

public addILED (iled : ILED) : void		
Parameters	iled	
	Multiplicity	Unspecified
	Туре	ILED
	Direction	inout
Static	false	
Leaf	false	
Documentation	Adds an ILed Element @param iled the ILed to be added	
Ordered	false	
Unique	true	
Query	false	

public removelLE	public removelLED (iled : ILED) : void		
Parameters	iled		
	Multiplicity	Unspecified	
	Туре	■ ILED	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Removes an ILed Element @param iled the ILed to be removed		
Ordered	false		
Unique	true		
Query	false		

public getInstance () : LEDManager		
Static	false	
Leaf	false	
Documentation	Function retrieves the LED Manager @return The LED Manager	
Ordered	false	
Unique	true	
Query	false	

public setColor (ledc : com.sun.spot.sensorboard.peripheral.LEDColor) : void		
Parameters	ledc	
	Multiplicity	Unspecified
	Туре	com.sun.spot.sensorboard.peripheral.LEDColor
	Direction	inout
Static	false	
Leaf	false	
Documentation	sets the color of the LED @param ledc the LED color	
Ordered	false	
Unique	true	
Query	false	

public setRGBCc	Color (r : int, g : int, b : int) : void		
Parameters	r		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
	g		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	b		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Sets the RGB color of an LED @param r the color of the red LED @param g the color of the green LED @param b the color of the blue LED		
Ordered	false		
Unique	true		
Query	false		

public setIntensity (intensity : int) : void		
Parameters	intensity	
	Multiplicity	Unspecified
	Туре	o int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Sets the intensity of all LEDs to the intensity value Presets are Dim = 1, Moderate = 2, High = 3 @param intensity	
Ordered	false	
Unique	true	
Query	false	

public displayNumberAsBinary (number : int) : void		
Parameters	number	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Function attempts to display the given number in binary using the LEDs @param number The number to be displayed in binary @throws Exception if number is negative or too large	
Ordered	false	
Unique	true	
Query	false	

package pow (x : int, y : int) : int			
Parameters	x		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	У		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	The Math.pow method because the Math package used by the SPOTS does not include this function. @param x the base of the exponent @param y The power to raise to @return An integer of x^y		
Ordered	false		
Unique	true		
Query	false		

public getNumberOfLEDs (): int		
Static	false	
Leaf	false	
Documentation	Function retrieves the number of LEDs managed @return Int the number of LEDs	
Ordered	false	
Unique	true	
Query	false	

public setLED (i	: int, state : boolean) : void		
Parameters	i		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	state		
	Multiplicity	Unspecified	
	Туре	boolean	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Turns an LED on or off based on a boolean value @param i Index of the LED to set @param state if true, turns the LED on, otherwise turns it off.		
Ordered	false		
Unique	true		
Query	false		

public setLEDCo	Color (i : int, r : int, g : int, b : int) : void		
Parameters	i		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
	r		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	g		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
	b		
	Multiplicity	Unspecified	
	Туре	o int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Set an LED's color to an RGB value @param i Index of the LED to set @param r Amount of red @param g Amount of green @param b Amount of blue		
Ordered	false		
Unique	true		
Query	false		

public getColor (i : int) : com.sun.spot.sensorboard.peripheral.LEDColor		
Parameters	i	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Get the color of a specific LED @param i Index of the LED to check @return LEDColor object for the specified LED	
Ordered	false	
Unique	true	
Query	false	

public allOff () : void		
Static	false	
Leaf	false	
Documentation	Function turns all LEDs off	
Ordered	false	
Unique	true	
Query	false	

public allOn (): void		
Static	alse	
Leaf	false	
Documentation	Function turns all LEDs on	
Ordered	false	
Unique	true	
Query	false	

public getLEDs () : java.util.Enumeration			
Static	alse		
Leaf	alse		
Documentation	Gets the possible LED elements @return the LED elements available for use		
Ordered	false		
Unique	true		
Query	false		

public supportsRGBColors () : boolean			
Static	alse		
Leaf	alse		
Documentation	Checks if RGB colors are supported @return true if they are, false if not		
Ordered	false		
Unique	true		
Query	false		

Unamed Association			
To (ledmanager)	Name	Value	
	End Model Element	E LEDManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	true	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed Association			
From	Name	Value	
	End Model Element	JETTQManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed Association			
From	Name	Value	
	End Model Element	E LEDManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\LED\LEDManager.java		
Description	Source	
Туре	File	

Switch

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
■ ISwitchObserver	Interface for a switch observer @author JETTQ [jettq@wpi.edu]
SwitchManager	Manager class for the SPOT's switches @author JETTQ [jettq@wpi.edu]

SwitchManager

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	Manager class for the SPOT's switches @author JETTQ [jettq@wpi.edu]

private switchmanager : SwitchManager				
Initial Value	new SwitchManager()			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private swit	ches	: com.sun.spot.sensorboard.periph	neral.ISwitch		
Documentation		Fix?			
Type Modifier					
Getter	fals	е	Setter	false	
Derived		false			
Multiplicity		Unspecified			
Aggregation		None			

private numSwitches : int				
Getter	false	Setter	false	
Derived	false			
Multiplicity Unspecified				
Aggregation	None			

private switchObservers : java.util.Vector				
Initial Value	e new Vector()			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation None				

package SwitchManager ()			
Static	false		
Leaf	false		
Documentation	Default Constructor		
Ordered	false		
Unique	true		
Query	false		

protected SwitchManager (switches : com.sun.spot.sensorboard.peripheral.ISwitch)			
Parameters	switches		
	Multiplicity	Unspecified	
	Type Modifier		
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Protected Contructor @param switches an array of ISwitches		
Ordered	false		
Unique	true		
Query	false		

public configureInstance (switches : com.sun.spot.sensorboard.peripheral.ISwitch) : SwitchManager			
Parameters	switches		
	Multiplicity	Unspecified	
	Type Modifier		
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Configures the manager for the given switches @param switches An array of ISwitches on the SPOT @return an instance of SwitchManager		
Ordered	false		
Unique	true		
Query	false		

private registerSwitches () : void			
Static	false		
Leaf	false		
Documentation	Sets up the manager to listen to the switches.		
Ordered	false		
Unique	true		
Query	false		

public getSwitches () : com.sun.spot.sensorboard.peripheral.ISwitch		
Static	false	
Leaf	false	
Documentation	Gets the switches being managed @return An array of ISwitches	
Type Modifier		
Ordered	false	
Unique	true	
Query	false	

public getSwitch (idx : int) : com.sun.spot.sensorboard.peripheral.ISwitch			
Parameters	idx		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Gets a specific switch @param idx Index of the switch to get @return ISwitch at the given index		
Ordered	false		
Unique	true		
Query	false		

public isSwitchPressed (idx : int) : boolean			
Parameters	idx		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Checks if a specific switch is pressed @param idx Index of the switch to check @return true if the switch is pressed, false otherwise		
Ordered	false		
Unique	true		
Query	false		

public isSwitchPressed (theswitch : com.sun.spot.sensorboard.peripheral.ISwitch) : boolean			
Parameters	theswitch		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Checks if a given switch is pressed @param theswitch An ISwitch object to check @return true if the ISwitch is pressed, false otherwise		
Ordered	false		
Unique	true		
Query	false		

public registerObserver (iso : ISwitchObserver) : void			
Parameters	iso		
	Multiplicity	Unspecified	
	Туре	■ ISwitchObserver	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Registers the observer for the switch		
Ordered	false		
Unique	true		
Query	false		

public removeObserver (iso : ISwitchObserver) : void		
Parameters	iso	
	Multiplicity	Unspecified
	Туре	■ ISwitchObserver
	Direction	inout
Static	false	
Leaf	false	
Documentation	Removes the observer for the switch @param iso the switch observer to be removed	
Ordered	false	
Unique	true	
Query	false	

public notifyObservers (updatedSwitch : com.sun.spot.sensorboard.peripheral.ISwitch) : void		
Parameters	updatedSwitch	
	Multiplicity	Unspecified
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch
	Direction	inout
Static	false	
Leaf	false	
Documentation	Notifies the observers of the switches @throws Exception if observers aren't properly notified	
Ordered	false	
Unique	true	
Query	false	

public switchPressed (sw : com.sun.spot.sensorboard.peripheral.ISwitch) : void		
Parameters	sw	
	Multiplicity	Unspecified
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch
	Direction	inout
Static	false	
Leaf	false	
Documentation	Notifies the observers that the switch was pressed @param sw ISwitch that was pressed	
Ordered	false	
Unique	true	
Query	false	

public switchReleased (sw : com.sun.spot.sensorboard.peripheral.ISwitch) : void		
Parameters	sw	
	Multiplicity	Unspecified
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch
	Direction	inout
Static	false	
Leaf	false	
Documentation	Notifies the observers that the switch was released. @param sw the ISwitch that was released.	
Ordered	false	
Unique	true	
Query	false	

Unamed Association		
To (switchmanager)	Name	Value
	End Model Element	SwitchManager
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	None
	Navigable	true
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unamed A	Jnamed Association		
From	Name	Value	
	End Model Element	JETTQManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed A	d Association		
From	Name	Value	
	End Model Element	SwitchManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Switch\SwitchManager.java		
Description	Source	
Туре	File	

ISwitchObserver

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Stereotypes	Interface
Documentation	Interface for a switch observer @author JETTQ [jettq@wpi.edu]

Operations

public update (updatedSwitch : com.sun.spot.sensorboard.peripheral.lSwitch) : void			
Parameters	updatedSwitch		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.ISwitch	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Update is called on any registered observers when the SwitchManager registers a change on the observed switch. @param updatedSwitch The ISwitch object that has changed @throws Exception If there are any errors updating the observer		
Ordered	false		
Unique	true		
Query	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Switch\ISwitchObserver.java		
Description	Source	
Type File		

IETTQManager

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	Main class of the JETTQ framework. The majority of the SPOT's functionality can be accessed through this. It also holds managers for the LED, Radio, Switch, and Accelerometer components. @author JETTQ [jettq@wpi.edu] @date 09-28-08 CS4233-Team Project

private jm : .	private jm : JETTQManager			
Initial Value	nitial Value new JETTQManager()			
Getter	false Setter false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

package edb : com.sun.spot.sensorboard.EDemoBoard			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

package isp	package ispot : com.sun.spot.peripheral.ISpot		
Getter	alse Setter false		false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private DEBU	private DEBUG : boolean			
Initial Value	true			
Getter	alse Setter false			
Derived	Derived false			
Multiplicity Unspecified				
Aggregation None				

private am :	private am : AccelerometerManager				
Getter	false Setter false		false		
Derived	false				
Multiplicity	Unspecified				
Aggregation	None				

private ledm	private ledm : LEDManager			
Documenta	Documentation private IOManager iom;			
Getter	fals	Setter false		
Derived	Derived false			
Multiplicity		Unspecified		
Aggregation		None		

private rm : RadioManager				
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	gation None			

private sm :	private sm : SwitchManager			
Getter	false Setter false		false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private versi	private version : String			
Initial Value	"1.2.11.0.0"			
Getter	alse Setter false		false	
Derived	false			
Multiplicity	y Unspecified			
Aggregation	None			

private JETTQMa	private JETTQManager ()	
Static	false	
Leaf	false	
Documentation	Private Constructor	
Ordered	false	
Unique	true	
Query	false	

public getInstance () : JETTQManager		
Static	false	
Leaf	false	
Documentation	Function retrieves the JETTQ Framework Manager @return JETTQManager object for the Framework	
Ordered	false	
Unique	true	
Query	false	

public getVersion	public getVersion () : String		
Static	false		
Leaf	false		
Documentation	Function returns the version number of the Framework @return String representing the Framework version		
Ordered	false		
Unique	true		
Query	false		

public registerAccelerometerObserver (iao : IAccelerometerObserver) : void		
Parameters	iao	
	Multiplicity	Unspecified
	Туре	■ IAccelerometerObserver
	Direction	inout
Static	false	
Leaf	false	
Documentation		observer for the accelerometer. @param iao an terObserver to register
Ordered	false	
Unique	true	
Query	false	

public getAccelerometerManager () : AccelerometerManager		
Static	false	
Leaf	false	
Documentation	Function retrieves the Accelerometer Manager @return AccelerometerManager object	
Ordered	false	
Unique	true	
Query	false	

private addTriColorLEDsToLEDManager () : void		
Static	false	
Leaf	false	
Documentation	Function converts the array of ITriColorLEDs to ILEDs and places them in the LEDManager	
Ordered	false	
Unique	true	
Query	false	

public getLEDManager (): LEDManager		
Static	false	
Leaf	false	
Documentation	Function retrieves the LED Manager @return LEDManager object	
Ordered	false	
Unique	true	
Query	false	

public turnLEDsOn () : void		
Static	false	
Leaf	false	
Documentation	Turns on all LEDs	
Ordered	false	
Unique	true	
Query	false	

public turnLEDsOff () : void		
Static	false	
Leaf	false	
Documentation	Turns off all LEDs	
Ordered	false	
Unique	true	
Query	false	

public setLEDsR	GBColor (r : in	t, g : int, b : int) : void
Parameters	r	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
	g	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
	b	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Sets the color of all LEDs to an RGB value @param r the amount of red @param g the amount of green @param b the amount of blue	
Ordered	false	
Unique	true	
Query	false	

public getIEEEAddress () : String		
Static	false	
Leaf	false	
Documentation	Gets the IEEE address of the SPOT's radio @return String that represents the IEEE address.	
Ordered	false	
Unique	true	
Query	false	

public getRadioManager () : RadioManager		
Static	false	
Leaf	false	
Documentation	Function retrieves the Radio Manager @return RadioManager object	
Ordered	false	
Unique	true	
Query	false	

public broadcast (str : String, port : int) : void			
Parameters	str		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
	port		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false	false	
Leaf	false		
Documentation	Broadcasts a string on a specified port @param str String you want to send @param port Port you want to send on		
Ordered	false		
Unique	true		
Query	false		

public broadcast (str : String) : void			
Parameters	str		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Broadcasts a string on the default port @param str String you want to send		
Ordered	false		
Unique	true		
Query	false		

public registerRadiogramListener (rgl : IRadiogramObserver, portNumber : int) : void		
Parameters	rgl	
	Multiplicity	Unspecified
	Туре	■ IRadiogramObserver
	Direction	inout
	portNumber	
	Multiplicity	Unspecified
	Туре	int int
	Direction	inout
Static	false	
Leaf	false	
Documentation	Registers a listener to the GramRadio @param rgl IRadiogramObserver to register @param portNumber Port to listen on	
Ordered	false	
Unique	true	
Query	false	

public getSwitchManager () : SwitchManager		
Static	false	
Leaf	false	
Documentation	Get the switch manager @return SwitchManager object	
Ordered	false	
Unique	true	
Query	false	

public registerSwitchObserver (iso : ISwitchObserver) : void			
Parameters	iso		
	Multiplicity	Unspecified	
	Туре	■ ISwitchObserver	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Registers the observer for the switch		
Ordered	false		
Unique	true		
Query	false		

public decho (msg : String) : void			
Parameters	msg		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Function to output given messages to standard output @param msg A String representing the message to be output.		
Ordered	false		
Unique	true		
Query	false		

public turnDebugOutputOn (): void		
Static	false	
Leaf	false	
Documentation	Function turns on the Debug output function	
Ordered	false	
Unique	true	
Query	false	

public turnDebugOutputOff (): void		
Static	false	
Leaf	false	
Documentation	Function turns off the Debug output function	
Ordered	false	
Unique	true	
Query	false	

public pause (time : long) : void			
Parameters	time		
	Multiplicity	Unspecified	
	Туре	long	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Pause for a specified time. @param time the number of milliseconds to pause		
Ordered	false		
Unique	true		
Query	false		

public run () : void	
Static	false
Leaf	false
Documentation	Easter Egg :p
Ordered	false
Unique	true
Query	false

Relationships

Unamed A	Unamed Association			
To (jm)	Name	Value		
	End Model Element	JETTQManager		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	true		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			

Unamed A	Unamed Association			
To (am)	Name	Value		
	End Model Element	AccelerometerManager		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	true		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			

Unamed Association			
To (ledm)	Name	Value	
	End Model Element	E LEDManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity 1		
	Visibility private		
	Aggregation Kind	None	
	Navigable	true	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed A	Unamed Association		
To (rm)	Name	Value	
	End Model Element	RadioManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	true	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed A	Unamed Association			
To (sm)	Name	Value		
	End Model Element	SwitchManager		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	true		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			

Unamed A	Unamed Association		
From	Name	Value	
	End Model Element	JETTQManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity Unspecified		
	Visibility private		
	Aggregation Kind	None	
	Navigable false		
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

References

C:\Document Codding\new	C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\JETTQManager.java	
Description	Source	
Туре	File	

Accelerometer

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation	
AccelerometerManager	Manager class for the SPOT's accelerometer. @author JETTQ [jettq@wpi.edu] @date 09-28-08	
[IAccelerometerObserver	Observer interface for the SPOT's accelerometer @author JETTQ [jettq@wpi.edu] @date 10-10-08	

AccelerometerManager

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Documentation	Manager class for the SPOT's accelerometer. @author JETTQ [jettq@wpi.edu] @date 09-28-08

Attributes

private accelerometermanager : AccelerometerManager				
Initial Value	new AccelerometerManager()			
Getter	false	alse Setter false		
Derived	false			
Multiplicity	y Unspecified			
Aggregation	None			

private DEFA	private DEFAULT_NOTIFICATION_INTERVAL : int				
Initial Value	500				
Getter	false	Setter	false		
Derived	erived false				
Multiplicity	city Unspecified				
Aggregation	None				

private MINI	private MINIMUM_NOTIFICATION_INTERVAL : int			
Documentation		500 milliseconds = 0.5 seconds		
Initial Value		5		
Getter	fals	е	Setter	false
Derived		false		
Multiplicity		Unspecified		
Aggregation		None		

private accelerometer : com.sun.spot.sensorboard.peripheral.lAccelerometer3D				
Documenta	Documentation 5 milliseconds			
Getter	fals	se Setter false		false
Derived		false		
Multiplicity		Unspecified		
Aggregation		None		

private notificationInterval : int			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

protected accelThread : Thread			
Getter	alse Setter false		false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private accelerometerObservers : java.util.Vector				
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

Operations

private Accelero	private AccelerometerManager ()		
Static	false		
Leaf	alse		
Documentation	Private Constructor		
Ordered	false		
Unique	true		
Query	false		

public getInstance () : AccelerometerManager		
Static	false	
Leaf	false	
Documentation	Get this instance of the AccelerometerManager @return AccelerometerManager	
Ordered	false	
Unique	true	
Query	false	

public configureInstance (ia3d : com.sun.spot.sensorboard.peripheral.IAccelerometer3D) : AccelerometerManager			
Parameters	ia3d		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.IAccelerometer3D	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Configures the Accelerometer manager with the specified IAccelerometer3D @param ia3d the IAccelerometer3D for the manager to use @return AccelerometerManager configured to the IAccelerometer3D		
Ordered	false		
Unique	true		
Query	false		

public getAccelerometer () : com.sun.spot.sensorboard.peripheral.IAccelerometer3D		
Static	false	
Leaf	false	
Documentation	Function retrieves the accelerometer @return IAccelerometer3D object representing the Accelerometer	
Ordered	false	
Unique	true	
Query	false	

public registerObserver (iao : IAccelerometerObserver) : void		
Parameters	iao	
	Multiplicity	Unspecified
	Туре	■ IAccelerometerObserver
	Direction	inout
Static	false	
Leaf	false	
Documentation	Registers the observer for the accelerometer	
Ordered	false	
Unique	true	
Query	false	

public removeObserver (iao : IAccelerometerObserver) : void			
Parameters	iao		
	Multiplicity	Unspecified	
	Туре	■ IAccelerometerObserver	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Removes the observer for the accelerometer @param iao the accelerometer observer to be removed		
Ordered	false		
Unique	true		
Query	false		

public getNotificationInterval (): int		
Static	false	
Leaf	false	
Documentation	Retrieves the notification interval @return the notification interval	
Ordered	false	
Unique	true	
Query	false	

public setNotificationInterval (ni : int) : void			
Parameters	ni		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Sets the notification interval @param ni the desired notification interval		
Ordered	false		
Unique	true		
Query	false		

private runScheduledNotify () : void	
Static	false
Leaf	false
Documentation	Begins the scheduled notifications to the observers
Ordered	false
Unique	true
Query	false

public notifyObservers () : void	
Static	false
Leaf	false
Documentation	Notifies the observers of the accelerometer object @throws Exception if observers aren't properly notified
Ordered	false
Unique	true
Query	false

Relationships

Unamed Association		
То	Name	Value
(accelerometermanager)	End Model Element	AccelerometerManager
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	None
	Navigable	true
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unamed A	Unamed Association		
From	Name	Value	
	End Model Element	I ETTQManager	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	false	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Unamed Association		
From	Name	Value
	End Model Element	AccelerometerManager
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Accelerometer\AccelerometerManager.java	
Description	Source
Туре	File

■ IAccelerometerObserver

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Stereotypes	Interface
Documentation	Observer interface for the SPOT's accelerometer @author JETTQ [jettq@wpi.edu] @date 10-10-08

Operations

public update (ia3d : com.sun.spot.sensorboard.peripheral.IAccelerometer3D) : void			
Parameters	ia3d		
	Multiplicity	Unspecified	
	Туре	com.sun.spot.sensorboard.peripheral.IAccelerometer3D	
	Direction	inout	
Static	false		
Leaf	false		
Documentation	Update is called on any registered observers when the AccelerometerManager polls the accelerometer. @param ia3d Passes the updated IAccerometer3D to the observer		
Ordered	false		
Unique	true		
Query	false		

References

C:\Documents and Settings\Jason Codding\new_workspace\JETTQ\FRAMEWORK\JETTQ\Accelerometer\IAccelerometerObserver.java	
Description	Source
Туре	File