```
package edu.wsu.gridstat.condensationCreator.interfaces;

/**
 * <p>Title: CondensationInterface </p>
 * <p>Description: </p>
 * <p>Copyright: Copyright (c) 2002</p>
 * <p>Company: Washington State University </p>
 * @author Kjell Harald Gjermundrod
 * @version 1.0
 */

public interface CondensationInterface
{
  /**
  * The <code>connectToEdge</code> method is used to connect to a edgeStatusRouter.
  * <BR>
  * @return Returns <code>0</code> if connected, error code otherwise.
  */
  public short connectToEdge();

  /**
  * The <code>disConnectFromEdge</code> method is used to disconnect from a edgeStatusRouter.
  * <BR>
  * @return Returns <code>true</code> we have unregisteded all the publications and we have disconnected, <code>false</code> otherwise.
  */
  public boolean disConnectFromEdge();

  /**
  * The <code>isConnected</code> method is used return if we are connected to the edgeStatusRouter or not.
  * <BR>
  * @return Returns <code>true</code> if we are connected, <code>false</code> otherwise.
  */
  public boolean isConnected();

  /**
  * The <code>registerCondCreator</code> method is used to register this condensation
  * creator.
  * <BR>
  * @return Returns <code>CommConstants.COMMAND_OK</code> if the condensation creator is registrered,
  * error code (Negative number) otherwise.
  */
  public short registerCondCreator();

  /**
  * The <code>unregisterCondCreator</code> method is used to unregister this condensation
  * creator.
  * <BR>
  * @return Returns <code>CommConstants.COMMAND_OK</code> if the condensation creator is removed,
  * error code (Negative number) otherwise.
  */
  public short unregisterCondCreator();

  /**
  * The <code>createCondensationHelper</code> method is used pack up the necessary information needed to create a condensation function.
  * Then it issue a request to the QoS management to create this condensation function in the dataplane.
  * <BR>
  * @param pubName The name of the publisher, i.e. this condensation function for the variable produced by it.
  * @param variableName The name if the variable that this condensation function publishes.
  * @param outDataType The datatype of the variable that is published.
  * @param outUserType The user datatype (is a user defined type is used) of the variable that is published.
  * @param outTypeLen The lenght (bytes) of the published variable.
  * @param priority The priority of the published variable.
  * @param intervalLow The low publishing interval.
  * @param intervalHigh The high publishing interval.
  * @param inFilerHigh Should the input values be filtered for a max value.
  * @param inFilterHighVar If high filtering (input) then this is the max value.
  * @param inFilerLow Should the input values be filtered for a minimum value.
  * @param inFilterLowVar If low filtering (input) then this is the minimum value.
  * @param outFilerHigh Should the output value be filtered for a max value.
  * @param outFilterHighVar If high filtering (output) then this is the max value.
  * @param outFilerLow Should the output value be filtered for a minimum value.
  * @param outFilterLowVar If low filtering (output) then this is the minimum value.
  * @param triggerType The triggering type to be used.
  * @param triggerVar1 A variable that can be given to the triggering mechanism.
  * @param calculatorURI The location of the calculator class that should be used for this condensation function.
  * @param calculatorClassName The name of the calculator class that should be used for this condensation function.
  * @return Returns <code>CommConstants.COMMAND_OK</code> if the condensation function could be created, error code otherwise.
  */
  public short createCondensation(String pubName, String variableName, short outDataType, int outUserType, int outTypeLen, short priority,
                                  int intervalLow, int intervalHigh, boolean inFilerHigh, int inFilterHighVar, boolean inFilerLow,
                                  int inFilterLowVar, boolean outFilerHigh, int outFilterHighVar, boolean outFilerLow, int outFilterLowVar,
                                  short triggerType, int triggerVar1, String calculatorURI, String calculatorClassName);
```