```
      ////////////////////////////////////////////////////////////////
      // Commands that can be issued by status routers to its
      // leaf QoS broker
      interface CommandSRToLeaf
      {
        // Method to notify the parent that it is online
        unsigned short changeSRStatus(in string SRName,
                                      in unsigned short status,
                                      out unsigned long mode);

        // Method to inform about a state change in a comm. link
        short changeLinkStatus(in string srcSRName,
                               in string dstSRName,
                               in unsigned short status);

        // Method to inform about change in the state for the
        // buffering for on of the comm. links
        short changeLinkBufferingState(in string srcSRName,
                                       in string dstSRName,
                                       in boolean onOff);

        // Used to check if the leaf QoS broker is running
        boolean ping();

        //                                     //
        // Needed to relay from the publishers //
        //                                     //
        // Method to register publishing of a variable
        short publish(in PublishInfo pubHolder,
                      inout unsigned long variableId);

        // Method to unregister a publishing of a variable
        short unPublish(in string pubName, in string variableName);

        // Method to unregister all publications from a publisher
        short unPublishAll(in string pubName);

        // Method to register a publisher
        short registerPublisher(in string pubName,
                                in string edgeStatusRouter);

        // Method to unregister a publisher
        short unRegisterPublisher(in string pubName);

        //                                      //
        // Needed to relay from the subscribers //
        //                                      //
        // Method to register a subscription
        short subscribe(in SubscribeInfo subHolder,
                        out unsigned long variableId,
                        out unsigned short numPatterns);

        // Method to unregister a subscription
        short unSubscribe(in string pubName,
                          in string variableName,
                          in string subName);

        // Method to unregister all subscriptions from a subscriber
        short unSubscribeAll(in string subName);

        // Method to register a subscriber
        short registerSubscriber(in string subName,
                                 in string edgeStatusRouter);

        // Method to unregister a subscriber
        short unRegisterSubscriber(in string subName);

        //                                               //
        // Needed to relay for the condensation creators //
        //                                               //
        // Method to create a condensation function
        short condensationCreate(
                            in CondensationRequestInfo condHolder);

        // Method to remove a condensation function
        short condensationRemove(in string creator,
                                 in string pubName,
                                 in string variableName);

        // Method to register a condensaton creator
        short registerCondensationCreator(in string condName,
                                          in string edgeStatusRouter);

        // Method to unregister a condensaton creator
        short unRegisterCondensationCreator(in string subName);
      };
```

```
      ////////////////////////////////////////////////////////////////
      // Commands that can be issued by condensation creators to its
      // leaf QoS broker
      interface CommandCondToESR
      {
        // Method to create a condensation function
        short condensationCreate(
                           in CondensationRequestInfo condHolder);

        // Method to remove a condensation function
        short condensationRemove(in string creator,
                                 in string pubName,
                                 in string variableName);

        // Method to register a condensaton creator
        short registerCondensationCreator(in string condName);

        // Method to unregister a condensaton creator
        short unRegisterCondensationCreator(in string subName);
      };

      ////////////////////////////////////////////////////////////////
      // Commands that can be issued by leaf QoS brokers,
      // publishers, subscribers, and condensation creators to
      // edge status routers
      interface CommandLeafPubSubCondToESR : CommandLeafToESR,
                                             CommandPubToESR,
                                             CommandSubToESR,
                                             CommandCondToESR
      {
        // No extra methods needed yet
      };

      ////////////////////////////////////////////////////////////////
      // Commands that can be issued by edge status router to a
      // subscriber to inform the subscriber about different issues
      // that might have arisen
      interface CommandESRToSub
      {
        // Method to inform about preparation for a mode change
        short newModePreparation(in unsigned long mode);

        // Method to inform about the change to a new mode
        short newMode(in unsigned long mode);

        // Method to forward a error msg about a subscription
        short subscribeErrorMsg(in string pubName,
                                in string variableName,
                                in unsigned short errorCode);
      };
    };
  };
};
};

#endif // define _EDU_WSU_GRIDSTAT_COMMAND_INTERFACES
```