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#ifndef _EDU_WSU_GRIDSTAT_QOSBROKER_COMMAND_INTERFACES
#define _EDU_WSU_GRIDSTAT_QOSBROKER_COMMAND_INTERFACES

#include "commStructs.idl"
#include "hierStructs.idl"

module edu
{
  module wsu
  {
    module gridstat
    {
      module qosBroker
      {
        module command
        {
          ///////////////////////////////////////////////////////////////////
          // Commands that can be issued by a QoS broker to one of its children (leaf) QoS brokers
          interface HierarchyChildCommon
          {
            // Method to commit a inter-cloud subscription
            short commitSub(in edu::wsu::gridstat::command::SubscriptionIdInfo subId);

            // Method to remove a inter-cloud subscription
            short removeSub(in edu::wsu::gridstat::command::SubscriptionIdInfo subId, in short code);

            // Method to set a variable to be flooded to a given levels and modes
            short setFlooding(in string pubName, in string variableName, in unsigned long variableId, in unsigned long pubInterval,
                              in unsigned long level, in unsigned long modes);

            // Method to remove a flooding from the given modes
            short removeFlooding(in string pubName, in string variableName, in unsigned long modes);

            // Method to change the operating mode
            short changeMode(in unsigned long mode);

            // Method to query what the current operating mode is
            short getMode(out unsigned long mode);
          };
        };

        module leafQoSBroker
        {
          ///////////////////////////////////////////////////////////////////
          // Commands that can be issued by a QoS broker to one of its child leaf QoS broker
          interface HierarchyLeafQoSChild : command::HierarchyChildCommon
          {
            // Method to request a start segment of a inter-cloud subscription
            long askSubStart(in edu::wsu::gridstat::command::SubscriptionIdInfo subId, in command::SubStartInfo subStart,
                             out unsigned long variableId, out unsigned long pubInterval);

            // Method to request a mid segment of a inter-cloud subscription
            long askSubMid(in edu::wsu::gridstat::command::SubscriptionIdInfo subId, in command::SubMidInfo subMid);

            // Method to request a end segment of a inter-cloud subscription
            long askSubEnd(in edu::wsu::gridstat::command::SubscriptionIdInfo subId, in command::SubEndInfo subEnd);

            // Method to query what the variableId of a publication is
            short getVariableId(in string pubName, in string variableName, out unsigned long variableId, out unsigned long pubInterval);
          };
        };
      };
    };
  };
};

```