Example: Configuring Aggregate Scheduling of Queues for Residential Subscribers on Static IP Demux Interfaces

In this example, scheduling is configured for a residential subscriber. Each forwarding class represents a multiplay service (voice, video and data), and is equivalent to a queue.

An interface set of IP demux interfaces represents a DSLAM, and provides shaping of subscribers services to a DSLAM aggregate rate.

```
[edit]
interfaces {
    interface-set demux-set {
        interface demux0 {
            unit 0;
            unit 1;
        }
    }
    ge-2/0/1 {
        vlan-tagging;
        unit 1 {
            per-session-scheduler;
            vlan-id 1;
            demux-source inet;
            family inet {
                address 4.4.4.4/24;
            }
        }
    }
    demux0 {
        unit 0 {
            demux-options {
                underlying-interface ge-2/0/1.1;
            }
            family inet {
                address 1.1.1.1/24;
                demux-source {
                    1.1.1.0/24;
                }
            }
        }
        unit 1 {
            demux-options {
                underlying-interface ge-2/0/1.1;
            }
            family inet {
                address 1.1.2.1/24;
                demux-source {
                    1.1.2.0/24;
                }
            }
        }
    }
```

```
}
class-of-service {
   traffic-control-profiles {
      T1 {
         scheduler-map m1;
         shaping-rate 5m;
      }
      T2 {
         shaping-rate 60m;
      }
   }
   interfaces {
      interface-set demux-set {
         output-traffic-control-profile T2;
      }
      demux0 {
         unit 0 {
            output-traffic-control-profile T1;
         }
         unit 1 {
            output-traffic-control-profile T1;
         }
      }
   }
   scheduler-maps {
      m1 {
         forwarding-class best-effort scheduler s0;
         forwarding-class expedited-forwarding scheduler s1;
         forwarding-class assured-forwarding scheduler s2;
         forwarding-class network-control scheduler s3;
      }
   }
   schedulers {
      s0 {
         transmit-rate percent 10;
         buffer-size percent 10;
      }
      s1 {
         transmit-rate percent 20;
         buffer-size percent 20;
      }
      s2 {
         transmit-rate percent 30;
         buffer-size percent 30;
      }
      s3 {
         transmit-rate percent 40;
         buffer-size percent 40;
      }
   }
}
```