

## Example: Providing Premium Services

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This scenario shows how service providers can offer premium services, such as video on demand, video conferencing, and voice over IP (VoIP). These types of services are turned on for short periods of time while the premium service is being used.

From the service provider's perspective, the service provider's network is on the inside, and the enterprise network is on the outside. Ingress traffic flows from the enterprise network to the service provider's network. Egress traffic flows from the service provider's network to the enterprise network.

In this example, two content providers provide premium services. One provides a music service, and the other provides a news service.

### Types of Policies

The policy used for premium services depends on the type of service being used. Generally, policies with filter, forward, rate-limit or policer actions, and QoS features are used.

The policy rules in premium services typically have a higher priority (smaller precedence number) than other services and default policies. In this case, the policy rules in the content provider service policies have a priority of 400. The default policy rule has a priority of 500.

The default policy uses the next-hop action to send all traffic destined for the networks of these content providers to the portal (see Example: Creating Access Policies for Subscribers). When the content provider service is activated, the forward action is taken for packets destined for the content provider network.

### Sample JUNOS and JUNOSe Content Provider Policies

The sample content provider policy group includes policy lists for both JUNOS and JUNOSe policies. The following information shows the configuration details of the premium service policy group.

```
policyGroupName=content-provider,ou=common,ou=sample,o=Policies,o=umc
```

#### PolicyList je-out

```
[edit policies folder sample folder common group content-provider list je-out]
user@host# show
role junose-ipv4;
applicability output;
rule from-content-provider {
    type junose-ipv4;
    precedence 400;
    accounting;
    forward forward {
    }
    traffic-condition content-provider {
        source-network {
            network {
```

```

        ip-address service_ipAddress;
        ip-mask service_ipMask;
        ip-operation 1;
    }
}
}
}

```

## PolicyList j-out

```

[edit policies folder sample folder common group content-provider list j-out]
user@host# show
role junos;
applicability output;
rule PR {
    type junos-filter;
    precedence 100;
    forward FA {
    }
    traffic-condition content-provider {
        source-network {
            network {
                ip-address service_ipAddress;
                ip-mask service_ipMask;
                ip-operation is;
            }
        }
    }
}
}

```

## PolicyList je-in

```

[edit policies folder sample folder common group content-provider list je-in]
user@host# show
role junose-ipv4;
applicability input;
rule to-content-provider {
    type junose-ipv4;
    precedence 400;
    accounting;
    forward forward {
    }
    traffic-condition content-provider {
        destination-network {
            network {
                ip-address service_ipAddress;
                ip-mask service_ipMask;
                ip-operation 1;
            }
        }
    }
}
}
}

```

## PolicyList j-in

```
[edit policies folder sample folder common group content-provider list j-in]
user@host# show
role junos;
applicability input;
rule PR {
    type junos-filter;
    precedence 100;
    forward FA {
    }
    traffic-condition content-provider {
        destination-network {
            network {
                ip-address service_ipAddress;
                ip-mask service_ipMask;
                ip-operation is;
            }
        }
    }
}
```

## Defining the Premium Services

You need to create two SAE services—one for the news service and one for the music service. Assign to the new service the content-provider policy group that we created in the last section.

For each service, define a substitution value for the `service_ipAddress` and `service_ipMask` parameters. Note that each content provider has a different `service_ipAddress` parameter.

### Music Service

The music service is provided by the XYZ company, which is a content provider.

```
[edit services global sae-service Music]
user@host# show
type normal;
policy-group /sample/content-provider;
status active;
available;
parameter {
    service-ip-address 10.20.30.0;
    service-ip-mask 255.255.255.0;
}
```

### News Service

The news service is provided by the ABC company, which is a content provider.

```
[edit services global sae-service News]
user@host# show
description "Example for content-provider in different network";
type normal;
```

```
category News;
url http://the.news.com;
policy-group /sample/common/content-provider;
radius-class News;
status active;
parameter {
    service-ip-address 10.20.40.0;
    service-ip-mask 255.255.255.0;
}
```