

## New Administration Commands for Sailfin 2.0

### 1. Rolling Upgrade

a) backup-session-store [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848|4849] [--secure|-s=true]

    [--user admin\_user] [--passwordfile file\_name] [--draintimeinseconds 30] [--timeoutinseconds 60] instance\_name

b) restore-session-store [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848|4849] [--secure|-s=true]

    [--user admin\_user] [--passwordfile file\_name] [--timeoutinseconds 60] instance\_name

c) reconcile-session-store [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848|4849] [--secure|-s=true] [--user

admin\_user] [--passwordfile file\_name] [--timeoutinseconds 60] instance\_name

### Options Added to existing Commands

### 2. SAF Enhancements

a) start-instance [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848|4849] [--secure|-s=true] [--user admin\_user] [--passwordfile file\_name] [--setenv (name=value)[:name=value]\*] instance\_name

b) start-node-agent [--terse=false] [--echo=false] [--interactive=true] [--user admin\_user] [--passwordfile file\_name] [--agentdir nodeagent\_path] [--startinstances=true] [--restartinstances=true] [--syncinstances=false] [--monitorinterval=5] [--verbose=false] [nodeagent\_name]

c) stop-node-agent [--terse=false] [--echo=false] [--stopinstances=true] [--interactive=true] [--secure=true] [--agentdir nodeagent\_path] [nodeagent\_name]

### 3. Multihome Support

a) create-sip-listener --siplisteneraddress address --siplistenerport listener\_port [--transport udp|tcp|tls] [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848] [--secure | -s] [--user admin\_user] [--passwordfile file\_name] [--enabled=true] [--siplistener\_type=default] [--externalsipaddress address] [--externalsipport port] [--target target(Default server)] sip\_listener\_id

b) create-http-listener --listeneraddress address --listenerport listener\_port --defaultvs virtual\_server [--terse=false] [--echo=false] [--interactive=true] [--host localhost] [--port 4848|4849] [--secure | -s] [--user admin\_user] [--passwordfile file\_name] [--servername server\_name] [--acceptorthreads acceptor\_threads] [--xpowered=true] [--redirectport redirect\_port] [--securityenabled=false] [--enabled=true] [--listenertype **type(Default default)**] [--target target(Default server)] listener\_id

c) get -m server.sip-service.network-manager.<sip-listener>.\*

## 4. Monitoring Statistics

a) get -m server.sip-service.network-manager.**response-sent**.\*

b) get -m server.sip-service.network-manager.**response-received**.\*

c) get -m server.sip-service.network-manager.**request-received**.\*

d) get -m server.sip-service.network-manager.**request-sent**.\*

## GUI Additions

1. Configurations > New Screen for Overload Protection Service.

2. Clusters > Instances > Clustered Server Instances table (column **lb\_enabled** enabled)

3. Configurations > SIP Service > SIP Listeners > <sip-listener> (Fields Listener Type, Address, Port fields added)

4. Configurations > HTTP Service > HTTP Listeners > <http-listener> (Field Listener Type)

## DTD Changes from 1.5 to 2.0

```
--- sun-domain_1_4.dtd Tue Oct 6 13:46:20 2009
```

```
+++ sun-domain_1_5.dtd Tue Oct 6 13:46:20 2009
```

```
@@ -52,11 +52,12 @@
```

```
    jdbc-resource, jms-availability, jms-service, jmx-connector,  
    lb-config, lifecycle-module, load-balancer, log-service,  
    mail-resource, management-rule, management-rules, mbean,  
-    node-agent, persistence-manager-factory-resource, profiler,  
-    resource-ref, security-service, server-ref,  
-    sip-container-availability, sip-listener, sip-protocol, ssl,  
-    transaction-service, transformation-rule,  
-    web-container-availability, web-module, web-service-endpoint  
+    node-agent, overload-protection-service,  
+    persistence-manager-factory-resource, profiler, resource-ref,  
+    security-service, server-ref, sip-container-availability,
```

```

+ sip-listener, sip-protocol, ssl, transaction-service,
+ transformation-rule, web-container-availability, web-module,
+ web-service-endpoint
-->
<!ENTITY % boolean "(yes | no | on | off | 1 | 0 | true | false)">

@@ -696,12 +697,13 @@
    configs
-->
<!ELEMENT config
- (sip-service?, http-service, iiop-service, admin-service,
- connector-service?, web-container, ejb-container, mdb-container,
- sip-container?, jms-service?, log-service, security-service,
- transaction-service, monitoring-service, diagnostic-service?, java-
- availability-service?, thread-pools, alert-service?,
- group-management-service?, management-rules?, system-property*, pro
+ (sip-service?, overload-protection-service?, diameter-service?,
+ http-service, iiop-service, admin-service, connector-service?,
+ web-container, ejb-container, mdb-container, sip-container?, jms-s
+ log-service, security-service, transaction-service, monitoring-serv
+ diagnostic-service?, java-config, availability-service?, thread-poc
+ alert-service?, group-management-service?, management-rules?,
+ system-property*, property*)>

<!ATTLIST config
@@ -866,6 +868,13 @@
    be the alias name if your server uses an alias. If you append
    a colon and port number, that port will be used in URLs the
    server sends to the client.

+ type
+ This can take values of "internal", "external" or "default".
+ An "internal" listener denotes that it will be used strictly
+ for the purpose of proxying by the clb. An "external" listener
+ will be used only by UAs and not by the clb. A "default" type
+ can be used by UAs as well as clb, and is the default type
+ for a listener.
xpowered-by
    The Servlet 2.4 spec defines a special X-Powered-By:
    Servlet/2.4 header, which containers may add to
@@ -894,7 +903,8 @@
    server-name CDATA #REQUIRED
    redirect-port CDATA #IMPLIED
    xpowered-by %boolean; "true"
- enabled %boolean; "true">
+ enabled %boolean; "true"
+ type CDATA "default">

<!-- ssl

```

@@ -942,8 +952,8 @@

### 5.5. NOT Used in PE

Used in:

- http-listener, iiop-listener, jmx-connector, sip-listener,
- ssl-client-config
- + bindto, http-listener, iiop-listener, jmx-connector,
- + sip-listener, ssl-client-config

-->

<!ELEMENT ssl EMPTY>

@@ -3115,7 +3125,7 @@

- lb-config, lifecycle-module, listener-config, load-balancer,
- log-service, mail-resource, manager-properties, mbean,
- mdb-container, module-log-levels, module-monitoring-levels,
- monitoring-service, node-agent, orb,
- + monitoring-service, node-agent, orb, overload-protection-service,
- persistence-manager-factory-resource, profiler, provider-config,
- proxy, resource-adapter-config, security-service, server,
- session-properties, sip-container, sip-container-availability,

@@ -3984,6 +3994,320 @@

+<!-- overload-protection-service

+

+ attributes

+ cpu-http-threshold

+ Sets the threshold of the cpu for http requests (range  
+ 0-100%).

+ cpu-ir-threshold

+ Threshold of the cpu for initial requests (range 0-100%). A  
+ 503 response will be returned when this level is reached.

+ cpu-mm-threshold

+ Sets the threshold of the cpu for max load possible for  
+ handling messages (range 0-100%), for both Http and Sip. The  
+ message, request/response will be dropped in case of SIP/Http.

+ cpu-overload-activation-algorithm

+ Determines the algorithm used when deciding to activate CPU  
+ overload protection. Range {CONSECUTIVE, MEDIAN}.

+ cpu-overload-deactivation-algorithm

+ Determines the algorithm used when deciding to deactivate CPU  
+ overload protection. Range {CONSECUTIVE, MEDIAN}.

+ cpu-overload-protection

+ Denotes if the cpu overload protection is enabled/disabled.  
+ Can be dynamically configured.

+ cpu-sr-threshold

+ Sets the threshold of the cpu for subsequent requests (range  
+ 0-100%).

+ enabled

```

+         Denotes whether the overload-protection manager layer is
+         inserted in the layer chain. This value cannot be dynamically
+         modified.
+ mem-http-threshold
+         Sets the threshold of the memory for http requests (range
+         0-100%).
+ mem-ir-threshold
+         Sets the threshold of the memory for initial requests (range
+         0-100%). A 503 response will be returned when this level is
+         reached.
+ mem-mm-threshold
+         Sets the threshold of the memory for max load possible for
+         handling messages (range 0-100%), for both Http and Sip. The
+         message, request/response will be dropped in case of SIP/Http.
+ memory-overload-protection
+         Denotes if the memory overload protection is
+         enabled/disabled. Can be dynamically configured.
+ mem-overload-activation-algorithm
+         Determines the algorithm used when deciding to activate
+         memory overload protection. Range {CONSECUTIVE, MEDIAN}.
+ mem-overload-deactivation-algorithm
+         Determines the algorithm used when deciding to deactivate
+         memory overload protection. Range {CONSECUTIVE, MEDIAN}.
+ mem-sr-threshold
+         Sets the threshold of the memory for subsequent requests
+         (range 0-100%). A 503 response will be returned when this
+         level is reached.
+ mm-threshold-http-wait-time
+         Denotes the time-interval for which the thread is held before
+         being released back to the pool. Used in the context of
+         maximum overload for http requests.
+ number-of-samples
+         Sets the number of consequence samples that is needed before
+         overload is raised. The sample rate could minimum be set to 2.
+ retry-after-interval
+         Value updated in the retry after of the response message.
+ sample-rate
+         Sets the sample rate of updating the overload protection
+         levels. Must be a positive value.
+
+ Used in:
+   config
+-->
+<!ELEMENT overload-protection-service (property*)>
+
+<!ATTLIST overload-protection-service
+  enabled %boolean; "false"
+  cpu-overload-protection %boolean; "false"
+  memory-overload-protection %boolean; "false"
+  cpu-ir-threshold CDATA "70"

```

```

+ mem-ir-threshold CDATA "85"
+ cpu-sr-threshold CDATA "90"
+ mem-sr-threshold CDATA "85"
+ cpu-http-threshold CDATA "70"
+ mem-http-threshold CDATA "85"
+ cpu-mm-threshold CDATA "99"
+ mem-mm-threshold CDATA "99"
+ sample-rate CDATA "2"
+ number-of-samples CDATA "5"
+ retry-after-interval CDATA "10"
+ cpu-overload-activation-algorithm CDATA "MEDIAN"
+ cpu-overload-deactivation-algorithm CDATA "CONSECUTIVE"
+ mem-overload-activation-algorithm CDATA "MEDIAN"
+ mem-overload-deactivation-algorithm CDATA "CONSECUTIVE"
+ mm-threshold-http-wait-time CDATA "2">
+
+
+
<!-- sip-listener

  attributes
@@ -3992,6 +4316,15 @@
    IPv6 notation. Can also be any for INADDR-ANY. Configuring a
    listen socket to listen on any is required if more than one
    sip-listener is configured to it.
+ external-sip-address
+   This is an optional attribute. It is effective only when the
+   attribute "external" is set to true. This should be the
+   address of the client facing network entity (e.g the load
+   balancer).
+ external-sip-port
+   This is an optional attribute. It is effective only when the
+   attribute "external" is set to true. This should be the port
+   of the client facing network entity ( e.g the load balancer).
  id
    Unique identifier for sip listener.
  port
@@ -4001,6 +4334,13 @@
    is 5060. When transport=tls, it is 5061.
  transport
    Specifies the type of transport layer protocol
+ type
+   This can take values of "internal", "external" or "default".
+   An "internal" listener denotes that it will be used strictly
+   for the purpose of proxying by the clb.An "external" listener
+   will be used only by UAs and not by the clb.A "default" type
+   can be used by UAs as well as clb, and is the default type
+   for a listener.

```

Used in:

```
    sip-service
@@ -4012,7 +4352,10 @@
    address CDATA #REQUIRED
    port CDATA #REQUIRED
    transport (udp_tcp | tls) "udp_tcp"
-   enabled %boolean; "true">
+   enabled %boolean; "true"
+   type CDATA "default"
+   external-sip-address CDATA #IMPLIED
+   external-sip-port CDATA #IMPLIED>
```

```
<!-- sip-protocol
@@ -4252,6 +4595,10 @@
```

```
    attributes
+   max-connections-per-backend
+       The maximum number of TCP connections that would be created
+       between the front-end and a backend for the purpose of
+       proxying http requests.
    read-timeout-in-millis
        the duration for which we would wait for data from the client
        in the socketchannel
@@ -4270,7 +4617,8 @@
    <!ATTLIST proxy
        request-pool-size CDATA "50"
        send-retry-count CDATA "3"
-   read-timeout-in-millis CDATA "1500">
+   read-timeout-in-millis CDATA "1500"
+   max-connections-per-backend CDATA "20">
```

```
<!-- identity-assertion-trust
```