SailFin v2.0 Admin Tasks

Ref documents:

[Google doc spreadsheet](#)
[SailFin 2.0 admin specification](#)
[SailFin 2.0 One Pagers](#)

Sl No	ID	Priority	Requirement	Issue Nos	Statu
1 2	105 65-0192/03416	P2	**Monitoring:** SGCS shall for all response codes support counters of the number of requests that are sent and received. This is a simplified version of sipCommonStatusCodeTable in rfc4780, Management Information Base for the Session Initiation Protocol (SIP) where the response code counters are structued per SIP Method and Response code. Statistics per response code would be very valuable for fault finding in an IMS system. Indexed on the response code, will give following 2 counters: sipStatResponseIns (code) sipStatsResponseOuts (code) Monitoring implementation is more of SIP container work since the SailFin administration monitoring framework is already present. Once the stats are implemented in the SIP stack/container, admin task would be to expose the stats and introducing new interfaces if required.	[1560](#)	Depe core admi canne
	Monitoring extra	P3	-CLB monitoring statistics -Per method statistics (1559) -Proxy statistics (1561)	[1559](#), [1561](#) [1784](#), [1785](#)	Worl Issue

3	105 65-0192/03426	P1	Logging: There shall exist guidelines/best practices for logging documented and applied within the SGCS v2 enabling that a specific loglevel (for example fine) can be used for trouble shooting in a system that is in service. The work implies to look over all "FINE" statements in the code in order to have less and optimized statements. (Motivation: Redundant information) Statements where we at several places dump object state, request data and input parameters should be moved to finest and the statements containing delta changes and decisions should be kept in FINE.	1580	Depe core How up of ident admi (COI on 1-
4	Multi home support	P2	Monitoring sip-listener test case for multi home.		**Und**
5	Deploy command enhancement **(No longer a requirement)**	P3	New option to preserve session data across redeploys	(GlassFish enhancement)	Depe web admi cann
6	Network Manager enhancements **(No longer a requirement)**	P3	Dynamic reconfig support for sip-service element properties One Pager	1104	Yet t
7	Proxy enhancement	P1	Hi Yamini, To fix issue 1663 (http clb performance) i needed another user configurable property. Since this fix		**COM**

			was required for patch2, i kept it as a system property. For 2.0 can we have this as an attribute under the <proxy> element. The new attribute would be max-connections-per-backend CDATA "20" The maximum number of TCP connections that would be created between the front-end and a backend for the purpose of proxying http requests. Thanks -Ramesh		
8	105 65-0192/03156	P1	Rolling upgrade: SIP Session and SIP Application Session and HTTP session replication is required under a minor upgrade (e.g. under the condition that database schema is not changed). Session replication under major upgrades is not required (or at least lower priority). One Pager		**Wait revie comn keda Larr confi initia ok.**
9	105 65-0192/03422	P1	Port Allocation: All ports that are used by SGCS shall be clearly documented. The documentation shall contain information about which ports are used, how they are configured and any mechanisms used if the configured port is unavailable (example: scanning for the next port that is available). It shall be possible to either configure the specific ports or the	998, 1571	**STA**

			port ranges used by SGCS. This is important when applications start to co-locate other processes with MMAS, since there may be port clashes. Also this information is needed if multiple server instances (or JVM) should be located on the same host.		
10	105 65-0192/03447	P1	**SGCS: Domain.xml Integrity:** The domain.xml file shall be protected from corruption. In order to guarantee the integrity of the domain.xml a locking mechanism shall be supported so that changes from multiple sources can not be done. Locking shall be supported for all changes that are done in the domainxml. Version handling of domain.xml shall be supported so that the last working copy can be automatically used in case the file gets corrupted after a modification has been performed. A possible use case is * lock the file * always take a copy of the file before manipulating it * perform manipulation * check the changes for structural integrity * check the changes for semantical integrity * if the file is corrupted, switch to previous version and raise a warning * unlock the file	1497, 1165 (Strictly GlassFish enhancements)	**-CO** (Patc for 1
11	105 65-0192/03421	P1	**SAF AMF:** The current implementation done in SGCS 1.5 and MMAS 1.0 (1.1) should for SGCS 2.0 be reviewed in order to define the scope of improvements within the area of SGCS and MMAS integration for. The current implementation implies for example that MMAS	919, 947, 948 (Strictly GlassFish enhancements)	**CON** -Cod in.

			has to kill the node agent and this is not seen as a future proof solution and effort should be put into improving the current situation. This requirement will be split at a later stage. SAF AMF One Pager		
12	Enhanced GMS Failure Notification:	P1	NA needs to be enhanced to communicate instance failure to GMS GMS One Pager		**CON** -Cod in.
13	105 65-0192/03384	P1	SGCS: Traffic handling Start-up: To support rolling upgrade properly, Sailfin must ensure that the SIP and HTTP listeners are not opened until all applications have been enabled. This becomes important when the sockets are used to communicate end-point availbility and there are other nodes in the cluster that are ready to handle traffic. SGCS must be able to communicate the end-point availability during startup, shutdown and upgrade. The order in which the different components are started shall be such that that the front end of CLB can immediately start handling traffic when listeners are enabled and that all applications are initialized before any backend traffic is received.	1094, 1166, 1413	**CON** -Cod in.
14	Multi home support	P2	Support for SailFin on a machine with multiple NICs One Pager	913, 914, 576	**CON** -Cod in
	105 65-0192/03442	P1	FE-BE Traffic separation: It must be possible to configure CLB to use dedicated network for FE-BE	1577	

			communication. When a server instance is configured with multiple sip/sips/http/https listeners the CLB must not use all these listeners to reach other CLB instances in the cluster. The CLB shall either know which listener that it uses for the FE-BE traffic, or which hostname that shall be used for FE-BE traffic.		
15	Overload Protection Manager enhancements	P2	The CPU based Overload Protection mechanism available in SGSC protects the system from getting to much load. Unfortunately the protection system is too sensitive and reacts on every small CPU spike. An algorithm is needed to minimize the spikes and reduce the number of alarms generated. Currently there is a poor way of notifications of overload within SGSC. Only warnings are logged when overload is detected. A notification mechanism should be introduced for clients to observe changes from normal load to overload and vice versa. One Pager	1581	COM - Coc in
16	Reporter enhancements	P3	-Verify call flow enhancements implementation (contributed by Ericsson ///), test and checkin -Define and implement access log reporter SMI and Audit Log Enhancements SMI Specific Enhancements	-	COM - Coc in

17	~~105-65-0192/02340~~	~~P1~~	~~Monitoring:~~ ~~SCAS must support at least the following list of HTTP performance measurements:~~ ~~Unit Name~~ ~~-scasHttpRequests~~ ~~-scasOverloadRejectedHttpRequests~~ ~~-ms scasAverageHttpTransactionTime~~ ~~A detailed description of the performance measurements can be found in the document EAS Measurements.~~ ~~Monitoring implementation is more of SIP container work since the SailFin administration monitoring framework is already present. Once the stats are implemented in the SIP stack/container, admin task would be to expose the stats and introducing new interfaces if required.~~ This requirement is being removed since the counters already exist. Snippet from Lar's mail: "The conclusion was that for now we could live with the counter that is currently implemented. What we stated was that the documentation shoudl clearly state what we count and also that the performance penalty should be met."	~~1558~~	~~Depe~~ ~~core~~ ~~admi~~ ~~cann~~
18	Configuration audit log	P4	Audit log for configuration changes on DAS	-	
19	Late binding features if any	-	DTD change requests, default setting changes etc.		