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# MetricClass Migration

This page contains a summary of Lemon exceptions triggered more than 20 times in the reference period grouped by MetricClass. Please note that some alarms could depend on more than one MetricClass.

You will find more information in the following links:

- Tested migration paths from Lemon MetricClass are described at <http://monit-docs.web.cern.ch/monit-docs/alarms/migration.html>.
- Standard alarms are listed at <http://monitdocs.web.cern.ch/monitdocs/alarms/collectd.html>.
- Full list of centrally managed Plugins is at <https://gitlab.cern.ch/ai/it-puppet-module-collectd/tree/qa/code/manifests/plugin>. Detail of how to configure in Puppet is at <http://monitdocs.web.cern.ch/monitdocs/ingestion/collectd.html>.

**\*Note:\*** Many lemon alarms are built up from past experiences over decades. The problems which were being monitored are not necessarily still occurring so it is good to assess the usefulness of a metric/alarm before implementation.

The Monitoring team is currently investigating the best alternatives for the most common Lemon MetricClass. If you want to discuss any of them or propose your own alternatives, do not hesitate to visit [~collectd](#) in MatterMost.

## OS

Lemon Metric Class	Status	Collectd Plugin	Lemon Alarm	#1Y	Responsible	Status
system.processCount	In Progress		nscd_wrong	276	Monitoring	in progress
			http_wrong	76	Monitoring	in progress
			sendmail_wrong	45	Monitoring	in progress
			lemonforwarder_wrong	1873	Monitoring	not needed
system.partitionInfo	DONE	DF	root_full	8780	Monitoring	DONE
			nonwriteable_filesystems	1564	Monitoring	no direct metric replacement
			var_full	469	Monitoring	DONE
			nfs_full	64	Monitoring	should not be marked as OS
			boot_full	60	Monitoring	DONE
			tmp_full	56	Monitoring	DONE
log.Parse	DONE	Tail	YUM_error	179065		
			VM_kill	37590	Monitoring	DONE
file.filecount			YUM_Transactions	7792		
system.swapIO			swap_io	7287913	Monitoring	in progress
system.unmountedFilesystems			unmounted_filesystems	1380	Monitoring	no direct metric replacement
puppetd.status			puppetd_wrong	6607		
			puppetd_run_errors	1453845		
system.loadAvg	DONE	Load	high_load	22567	Monitoring	DONE
system.Os			Operating_System	60948	Monitoring	no direct

						metric replacement
system.swapUsed	DONE	Swap	swap_full	6044	Monitoring	DONE

## HW

Lemon Metric Class	Status	Collectd Plugin	Lemon Alarm	#1Y	Res
adaptec.controller			adaptec_unsupported_os_version	193	
			adaptec_unsupported_raid_configuration_for_os_version	190	
			adaptec_raid_controller_not_found	121	
megaraidzas.controller			megaraidzas_raid_controller_not_found	338	
megaraidzas.physical_drives			megaraidzas_unconfigured_bad_drive	755	
			megaraidzas_raid_controller_not_found	338	
			megaraidzas_unconfigured_good_drive	32	
blockdevice-drivers.messages			scsi_blockdevice_driver_error_reported	16216	
			device_mapper_error_reported	57	
adaptec.physical_drives			adaptec_raid_controller_not_found	121	
			adaptec_missing_drive	22	
sasarray.stats			Sasarray_No_Enclosure_Found	2538	
			Sasarray_Wrong_Number_Drives	907	
			Sasarray_Fan_Problem	130	
			Sasarray_Psu_Problem	68	
log.Parse			machine_exception	2231	
			nvm_fail	75	
			io_error	32	
			nmi_received	28	
adaptec.bbu			adaptec_raid_controller_not_found	121	
IPMI.sel			ipmi_power	86741	
			ipmi_mem	6137	
			ipmi_proc	5667	
adaptec.raid_arrays			adaptec_raid_controller_not_found	121	
megaraidzas.raid_arrays			megaraidzas_raid_controller_not_found	338	
			megaraidzas_raid_array_not_optimal	29	
megaraidzas.bbu			megaraidzas_raid_controller_not_found	338	
IPMI.avgrmscnt			ipmi_wrong	19880	
smart.failing			smart_failing	50	
system.partitionInfo			dma_disabled	21	
bonding.status			bonding_wrong	159	
system.loadAvg			ipmi_wrong	19880	
smart.selftest			smart_selftest	361	
system.CPUCount			ipmi_wrong	19880	
IPMI.ping			ipmi_no_contact	609	

## App

Lemon Metric Class	Status	Collectd Plugin	Lemon
system.processCount	In Progress		limd_wrong
			etcd_wrong
			openstack-nova-compute

			afsd_wrong origin_node_wrong kafka_broker_wrong eos_mgm_wrong slurmd openstack-nova-conductor openstack-nova-scheduler openstack-nova-api openstack-nova-network eos_fst_wrong sssd_wrong tapeserverd_wrong c2_xrd_wrong puppetdb_wrong rabbitmq-server master_slave_service_wrong dashboard_consumer_wrong rncd_wrong kibana_wrong eos_gridftpd_wrong sbatchd_wrong eos_mq_wrong fts_server_wrong
log.Parse	DONE	Tail	TapeDriveDOWN hdfssink_priviledged_action_e CVMFSProbe teeproxy_error LoadBalancingUpdateFailed sensor_sample CASTOR_OraErrors cmsweb_reqmgr2_is_not_resp cmsweb_das_web_is_not_resp cmsweb_dbs_is_down cmsweb_crabserver_is_down cmsweb_couchdb_is_down cmsweb_dbmigration_is_dow cmsweb_dmwmmon_is_down cmsweb_phedex_web_is_dow cmsweb_phedex_datasvc_is_c cmsweb_reqmgr2_is_down cmsweb_phedex_graphs_is_d cmsweb_sitedb_is_down cmsweb_t0wmadatasvc_is_do cmsweb_reqmon_is_down cmsweb_confdb_is_down cmsweb_crabcache_is_down cmsweb_das_web_is_down cmsweb_mongodb_is_down cmsweb_popdb_web_is_down

			cmsweb_phedex_webapp_is_c cmsweb_t0reqmon_is_down cmsweb_victor_web_is_down dsm_error cmsweb_das_client_is_down cmsweb_crabserver_is_not_re cmsweb_phedex_graphs_is_no database_on_demand_dbod_se cmsweb_dqm_dev_agents_is_ cmsweb_phedex_web_is_not_ cmsweb_dqm_dev_web_is_do cmsweb_phedex_datasvc_is_r cmsweb_phedex_webapp_is_r cmsweb_couchdb_is_not_resp cmsweb_victor_web_is_not_r riversink_peerdisconnected cmsweb_sitedb_is_not_respon
xsls.availability			castor_alice_xsls_not_availabl XRDFED_CMS-EU cfg_unavailable
flume_agent.flumefch			flume_zero_sink_rate flume_channel_full flume_zero_sink_rate_in_hdfs flume_zero_sink_rate_in_essin flume_zero_sink_rate_in_gw flume_cert_es_channel_full flume_cert_es_zero_sink_rate flume_cert_hdfs_channel_full
system.partitionInfo	DONE	DF	data_full pool_full opt_partition_full_err cvmfs_transaction_full
flume_agent.flumesinkrate			flume_zero_sink_rate flume_zero_sink_rate_in_hdfs flume_zero_sink_rate_in_essin flume_zero_sink_rate_in_gw flume_cert_es_zero_sink_rate
ProcessInfo			diskmanagerd_wrong
file.sslmtime			racmon_log_age iss_nologin_age_too_old
system.exitCode			eos-server_version_check_fail dashb_http_log mesos_slave_wrong
file.filecount			flume_dirq_full eos_mgm_no_recent_mdlog kernel_crashdumps
flume_agent.agent			flume_agent_wrong
kafka.broker			kafka_under_replicated kafka_no_messages

alarm.exception			CVMFSProbe
dbod.monitoringAgg			database_on_demand_ping_tim
db.iptables			iptables_not_running
log.ParseExtract1			EOS_critical-log-catchall_mai
system.threadCount			eos_fst_toomanythreads
url.httpcode			url_down_apache
file.size			es_huge_logfile
dbod.slavePingAgg			database_on_demand_replicat
rabbitmq.message	In Progress		rabbitmq-server-messages
oracle.StandByFlashRecoveryAreaSpaceReclaimableAgg			oracle_standby_flash_recover
WhiteExpire			CVMFSWhiteExpire
oracle.TablespacesQuotasAgg			oracle_ts_quotas_agg
es.health			es_cluster_wrong
log.ParseExtract4			afs_fileserver_rescheduled_de
oracle.StandByMRPAgg			oracle_standby_mrp_agg
rabbitmq.partition	In Progress		rabbitmq-server-partition
es.heap_used			es_heap_size_large
openshift.etcd_members_healthy			etcd_not_enough_members
rpm_process_count.all			rpm_stuck
log.ParseExtract2			too_many_SELinux_AVC_de
infiniband.ports			infiniband_port
oracle.TNSServiceConnectivityAgg			oracle_tns_service_connectivi
service-state.status			eosd_service_error
openshift.node_ready			openshift_node_not_ready
oracle.SQLResponseTimeAgg			oracle_sql_response_time_agg
oracle.ClusterResourceStateAgg			oracle_cluster_resource_state
openshift.etcd_cluster_healthy			etcd_not_healthy
oracle.AverageActiveSessionsAgg			oracle_average_active_session
oracle.StandByApplyLagAgg			oracle_standby_apply_lag_agg
eosdisk.fsck			eos_offline_files
CVMFS.Probe	In Progress <a href="#">↗</a>	collectd-cvmfs <a href="#">↗</a>	CVMFSProbe
yumstatus.all			yum_broken
db.ip6tables			ip6tables_not_running
oracle.InstanceTablespacesAgg			oracle_tablespaces_agg
drain.all	In Progress		condor_upgrade
oracle.DatafileStatusAgg			oracle_datafile_status_agg
system.networkInterfaceDropped			packetsDropped
puppetd.status			puppetd_run_errors
oracle.PGAMemoryAbove3GBAgg			oracle_PGA_memory_above_
es.nodes_process			es_nodes_process_ok
zfs.zrep_age			zrep_age
system.swapIO			dbod_swap_io
rpmdb.verify_db			rpmdb_verify
sssdfunc.id			sssd_id_test
zfs.zpool			zpool

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Topic revision: r11 - 2018-05-28 - LuisFernandezAlvarez1



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