

Changelog for mr12.0.1

ID	Category	Summary	Target Releases
Category: Bugfix			
58591	Bugfix	German translation "subscriber phonebook"	mr11.5.1.5, mr11.5.2, mr12.0.1.2, mr12.0.2, mr12.1.1
58597	Bugfix	CSC does not allow to modify CF ring timeout	mr11.5.1.6, mr11.5.2, mr12.0.1.3, mr12.0.2, mr12.1.1
58578	Bugfix	incoming PAI header is not stripped by proxy, even though Privacy=id is present	mr11.3.1.74, mr11.3.2, mr11.5.1.32, mr11.5.2, mr12.0.1.2, mr12.0.2, mr12.1.1
55283	Bugfix	Various rtpengine fixes	mr7.5.14, mr8.5.10, mr8.5.11, mr9.5.1.55, mr9.5.2.32, mr9.5.3.21, mr9.5.4.24, mr9.5.5.22, mr9.5.6, mr9.5.6.8, mr9.5.7, mr9.5.8, mr10.1.2, mr10.5.2.27, mr10.5.3, mr10.5.4, mr10.5.5, mr10.5.6, mr11.0.2, mr11.1.1, mr11.1.1.19, mr11.1.2, mr11.2.1, mr11.2.2, mr11.3.1, mr11.3.2, mr11.4.1, mr11.4.2, mr11.5.1, mr11.5.2, mr12.0.1, mr12.0.2, mr12.1.1
58352	Bugfix	Peer registration sent via wrong LB	mr11.5.1.2, mr11.5.2, mr12.0.1
58381	Bugfix	global: License audit	mr12.0.1, mr12.1.1
58333	Bugfix	API v1: /api/phoenebookentries requires mandatory parameter 'reseller_id' or 'customer_id' or 'subscriber_id'	mr12.0.1
58189	Bugfix	Caller stays in 'on hold' display after a blind transfer to external device	mr11.1.1.75, mr11.1.2, mr11.2.1.51, mr11.2.2, mr11.3.1.50, mr11.3.2, mr11.4.1.10, mr11.4.2, mr11.5.1, mr12.0.1
58348	Bugfix	subscriber cannot record outbound calls, only incoming	mr11.1.1.83, mr11.3.1.62, mr11.3.2, mr11.5.1.12, mr11.5.2, mr12.0.1
58165	Bugfix	Voice prompt issue after an Automated Attendant	mr11.1.1.76, mr11.1.1.85, mr11.1.2, mr11.2.1.52, mr11.2.2, mr11.3.1.51, mr11.3.2, mr11.4.1.11, mr11.4.2, mr11.5.1, mr12.0.1
58095	Bugfix	Users don't receive calls from hunting group	mr9.5.5.7, mr12.0.1
55158	Bugfix	TT#185700: Cron: Asterisk tmp folder cleanup executed twice an hour (once is expected)	mr12.0.1

58307	Bugfix	global: Improve upstream build systems	mr12.0.1
57598	Bugfix	Mariadb 10.11 some columns are nullable	mr11.4.1.23, mr11.4.2, mr11.5.1.2, mr11.5.1.3, mr11.5.1.18, mr11.5.2, mr12.0.1, mr12.1.1
58314	Bugfix	Sipwise 11.3.1 new metrics on trunk : peer_id does not seem to match with other metrics	mr11.3.1.3, mr11.3.2, mr11.4.1.2, mr11.4.2, mr11.5.1.2, mr11.5.2, mr12.0.1
58556	Bugfix	Privacy=history in outbound INVITE's HI header	mr9.5.8.3, mr9.5.9, mr10.5.5.12, mr10.5.6, mr11.5.1.27, mr11.5.2, mr12.0.1, mr12.1.1
58596	Bugfix	In CSC Call Fwd to announcement doesn't allow select the custom announcement to play	mr11.5.1.8, mr11.5.2, mr12.0.1, mr12.1.1
55307	Bugfix	TT#152355: Slow DB query on kamailio.acc: select a.callid from acc a where a.method = 'INVITE' group by a.callid	mr11.1.1.3, mr11.1.2, mr11.2.1.2, mr11.2.2, mr11.4.1, mr11.5.1.4, mr11.5.2, mr12.0.1, mr12.1.1
58408	Bugfix	ngcp support of rfc4916	mr10.5.5.2, mr10.5.6, mr11.5.1.4, mr11.5.2, mr12.0.1, mr12.1.1
58542	Bugfix	db_reg_agent.conf peering query is failing to fetch @socket	mr10.5.5.11, mr10.5.6, mr11.3.1.69, mr11.3.2, mr11.4.1.27, mr11.4.2, mr11.5.1.25, mr11.5.2, mr12.0.1, mr12.1.1
58497	Bugfix	Fix the described procedure to upgrade to version mr11.5.1	mr11.5.1.4, mr11.5.1.5, mr11.5.2, mr12.0.1, mr12.1.1
58420	Bugfix	[ALE] [CSTA] groupCallLogs: no groupcallLogs if HG called via IVR and HG unavailable	mr11.3.1.67, mr11.3.2, mr11.4.1.25, mr11.4.2, mr11.5.1.23, mr11.5.2, mr12.0.1, mr12.1.1
58541	Bugfix	[Cloud Telephony] wrong display on device when HG transferred to user	mr11.1.1.87, mr11.1.2, mr11.2.1.55, mr11.2.2, mr11.3.1.68, mr11.3.2, mr11.4.1.26, mr11.4.2, mr11.5.1.24, mr11.5.2, mr12.0.1, mr12.1.1
56847	Bugfix	active_watchers table lists expired watchers entries	mr11.3.1.4, mr11.3.2, mr11.4.1.3, mr11.4.2, mr11.5.1.3, mr11.5.2, mr12.0.1, mr12.1.1
58344	Bugfix	dispatcher: new entries are not handled correctly by the system	mr12.0.1
58371	Bugfix	AUI: Scrolling too fast in the subscriber/domain preferences creates duplicated entries	mr11.5.1.2, mr11.5.2, mr12.0.1, mr12.1.1
58372	Bugfix	AUI: Selecting the default preference twice in a row throw an error	mr11.5.1.2, mr11.5.2, mr12.0.1, mr12.1.1
57129	Bugfix	CSC does not display "Anonymous" in Conversation page for inbound calls from anonymous	mr11.5.1.6, mr11.5.2, mr12.0.1

58456	Bugfix	broken symbolic links /var/lib/ngcp-voisniff after upgrade mr7.5->mr9.5	mr9.5.8.3, mr9.5.9, mr12.0.1
58511	Bugfix	monit no longer listening on port 2822, breaking system-tests	mr12.0.1
58505	Bugfix	rtppengine can't connect to redis/keydb due to IPv4/IPv6 behavior	mr12.0.1
58078	Bugfix	Euro sign cause malformed faxes	mr8.5.11.2, mr8.5.12, mr9.5.3.4, mr9.5.4.3, mr9.5.5.2, mr9.5.5.3, mr9.5.6.2, mr9.5.6.3, mr9.5.7.3, mr9.5.8, mr10.5.5.2, mr10.5.6, mr11.4.1.3, mr11.4.2, mr11.5.1.2, mr11.5.2, mr12.0.1
58445	Bugfix	Fix for the regression due to "MT#58078 Fix malformed faxes because of euro sign"	mr8.5.11.3, mr8.5.12, mr9.5.3.5, mr9.5.4.4, mr9.5.5.4, mr9.5.6.4, mr9.5.7.4, mr9.5.8.2, mr9.5.9, mr10.5.5.3, mr10.5.6, mr11.4.1.4, mr11.4.2, mr11.5.1.3, mr11.5.2, mr12.0.1
58468	Bugfix	Fix regression "paps: Invalid character in input"	mr8.5.11.4, mr8.5.12, mr9.5.3.21, mr9.5.4.17, mr9.5.5.16, mr9.5.6.10, mr9.5.7.6, mr9.5.8.2, mr9.5.9, mr10.5.5.3, mr10.5.6, mr11.4.1.5, mr11.4.2, mr11.5.1.5, mr11.5.2, mr12.0.1
57624	Bugfix	Debian/bookworm: mariadb-server 10.11.3 crashes / coredumps with certain queries	mr11.4.1, mr11.5.1.20, mr11.5.2, mr12.0.1
58367	Bugfix	Clickjacking (cross frame scripting - csp frame ancestor)	mr8.5.1.27, mr8.5.3.22, mr8.5.4.24, mr8.5.5.18, mr8.5.6.16, mr8.5.7.13, mr8.5.8.11, mr8.5.9.9, mr8.5.10.5, mr8.5.11.5, mr8.5.12, mr9.5.1.56, mr9.5.2.33, mr9.5.3.24, mr9.5.4.26, mr9.5.5.24, mr9.5.6.15, mr9.5.7.11, mr9.5.8.2, mr9.5.9, mr10.5.2.39, mr10.5.3.15, mr10.5.4.20, mr10.5.5.9, mr10.5.6, mr11.5.2, mr12.0.1
58471	Bugfix	Sipwise APP is not able to register after upgrade to 11.5.1	mr11.5.1.2, mr11.5.2, mr12.0.1
58299	Bugfix	Acc-cleanup should not stop archiving/cleaning up when it encounters a missing month table	mr9.5.3.5, mr12.0.1
58417	Bugfix	Call Recording notification : Bad caller field content	mr11.3.1.64, mr11.3.2, mr11.5.1.16, mr11.5.2, mr12.0.1
58442	Bugfix	P-NGCP-TPCC-Leg header get lost when CF is set in 3PCC	mr11.3.1.65, mr11.3.2, mr11.5.1.17, mr11.5.2, mr12.0.1
58441	Bugfix	attribute manipulations, fix fmtpp processing	mr11.5.2, mr12.0.1

58431	Bugfix	mysql_values.cfg.services fails in upgrade to mr11.5*	mr10.5.5.8, mr10.5.6, mr11.5.1.14, mr11.5.2, mr12.0.1
58415	Bugfix	mysql_values.cfg.services fails in upgrade mr11.5->trunk	mr12.0.1
58290	Bugfix	Agent keeps on ringing when an incoming call to Hunt Group overflows to Voice Prompt	mr11.1.1.81, mr11.1.2, mr11.3.1.58, mr11.3.2, mr11.4.1.19, mr11.4.2, mr11.5.1.9, mr11.5.2, mr12.0.1
58430	Bugfix	fix allowed_ngcp_types check	mr11.5.1.4, mr11.5.2, mr12.0.1
58079	Bugfix	[Cloud Telephony] On PREPROD: some dialogs remains stuck in kamalio proxy after HG tests	mr11.3.1.63, mr11.3.2, mr11.4.1.22, mr11.4.2, mr11.5.1.13, mr11.5.2, mr12.0.1
52766	Bugfix	TT#124273: Update Sipwise packages to remove "check-packaging" warnings	mr9.5.1, mr9.5.3, mr10.2.1, mr10.2.2, mr10.3.1, mr10.5.1, mr10.5.2, mr11.3.1, mr12.0.1
58199	Bugfix	PAI header containing an internal number	mr11.1.1.77, mr11.1.2, mr11.2.1.53, mr11.2.2, mr11.3.1.52, mr11.3.2, mr11.4.1.13, mr11.4.2, mr11.5.1, mr12.0.1
58364	Bugfix	Call overflow is not reached the destination (Voiceprompt) once the agents in group declined the call	mr11.1.1.82, mr11.1.2, mr11.3.1.60, mr11.3.2, mr11.4.1.21, mr11.4.2, mr11.5.1.11, mr11.5.2, mr12.0.1
58369	Bugfix	Wrong socket used in rtpengine-recording notify-url in case rtpengine is running on LB01	mr11.3.1.59, mr11.3.2, mr11.4.1.20, mr11.4.2, mr11.5.1.10, mr11.5.2, mr12.0.1
58246	Bugfix	Call Recording notification : inconsistencies in caller / callee - same content	mr11.1.1.78, mr11.3.1.54, mr11.3.2, mr11.4.1.15, mr11.4.2, mr11.5.1, mr12.0.1
58268	Bugfix	Call Recording notification : calling voicebox	mr11.1.1.79, mr11.3.1.55, mr11.3.2, mr11.4.1.17, mr11.4.2, mr11.5.1, mr12.0.1
58231	Bugfix	Call Recording API: caller and callee are null	mr11.1.1.80, mr11.3.1.56, mr11.3.2, mr11.4.1.18, mr11.4.2, mr11.5.1.6, mr11.5.2, mr12.0.1
57602	Bugfix	[Eventapi] 3pcc blindtransfer from B to recorded dest: missing delivered event	mr11.3.1.6, mr11.3.1.57, mr11.3.2, mr11.4.2, mr11.5.1.2, mr11.5.1.8, mr12.0.1
57030	Bugfix	Update AUI and CSC to fix latest security warnings	mr11.5.1, mr12.0.1
56937	Bugfix	Don't allow CSC starting calls without any microphone enabled	mr11.5.1, mr12.0.1
58293	Bugfix	Issue with ngcp_sip_registered_devices metric	mr11.4.1.2, mr11.4.2, mr11.5.1, mr12.0.1
57003	Bugfix	SNMP datas from SIPWISE-NGCP-MONITOR-MIB::sipConcurrentCalls	mr9.5.1.54, mr9.5.2.31, mr9.5.3.20, mr9.5.4.23, mr9.5.5.21, mr9.5.6.3, mr9.5.6.7, mr9.5.7, mr10.5.1.57, mr10.5.2.34, mr10.5.3.10, mr10.5.4.2, mr10.5.4.5, mr10.5.5, mr11.0.1.38,

			mr11.0.2, mr11.1.1.63, mr11.1.2, mr11.2.1.24, mr11.2.1.37, mr11.2.2, mr11.3.1, mr11.3.1.8, mr11.3.2, mr11.4.1, mr11.5.1, mr12.0.1
58187	Bugfix	SRTP crypto field is not processed correctly by sems.	mr11.3.1.14, mr11.3.2, mr11.4.1.5, mr11.4.2, mr11.5.1, mr12.0.1
58265	Bugfix	When locationmapping "forward" is set the recording is never created	mr11.4.2, mr11.5.1, mr12.0.1
58240	Bugfix	CSC: there is no possibility to delete phonebook entries	mr11.5.1, mr12.0.1
58225	Bugfix	[ALE] missing connectionCleared when user reaches NA or busy prompt NOT played in loop	mr11.3.1.53, mr11.3.2, mr11.4.1.14, mr11.4.2, mr11.5.1, mr12.0.1
58190	Bugfix	After the update of admin UI to Quasar v2 all of the E2E tests for preferences are failing	mr11.5.1, mr12.0.1
58181	Bugfix	[HUB] [Webclient]: Webclient1 performed a supervised call transfer of GSM to Webclient2, no audio in both ways	mr11.1.1.16, mr11.1.2, mr11.2.1.16, mr11.2.2, mr11.3.1.13, mr11.3.2, mr11.4.1.4, mr11.4.2, mr11.5.1, mr12.0.1
58237	Bugfix	CSC: setting/unsetting a soundset as Default for subscribers return an error code	mr11.5.1, mr12.0.1
58235	Bugfix	CSC: it is possible to press the GREEN dial button even without entering the number to dial	mr11.5.1, mr12.0.1
58239	Bugfix	CSC: time selector of the REMINDER page doesn't allow to select minutes	mr11.5.1, mr12.0.1
58157	Bugfix	XSS reflected found(JS no correctly sanitize allowing cookie stealing)	mr8.5.1.10, mr8.5.3.14, mr8.5.5.9, mr8.5.8.6, mr8.5.10.2, mr8.5.12, mr9.0.2, mr9.1.2, mr9.2.1.6, mr9.2.2, mr9.3.2, mr9.4.1.11, mr9.4.2, mr9.5.2.31, mr9.5.4.16, mr9.5.6.9, mr9.5.8, mr10.0.1.12, mr10.0.2, mr10.1.2, mr10.2.1.9, mr10.2.2, mr10.3.2, mr10.4.1.8, mr10.4.2, mr10.5.2.17, mr10.5.4.5, mr10.5.6, mr11.0.1.12, mr11.0.2, mr11.1.2, mr11.2.1.11, mr11.2.2, mr11.3.2, mr11.4.1.4, mr11.4.2, mr11.5.1, mr12.0.1
58208	Bugfix	Trying to generate a password for subscriber using the password generate button only produces an empty space	mr11.5.1, mr12.0.1
58236	Bugfix	CSC: new soundset languages cannot be selected as preset	mr11.5.1, mr12.0.1
58207	Bugfix	P-early-media field not working as expected	mr10.5.5.4, mr10.5.6, mr11.4.1.11, mr11.4.2, mr11.5.1,

mr12.0.1

Category: Change Request

58274	Change Request	[ALE#23.19] BYOT: Connectivity monitoring of private trunks with Hybrid PBXs	mr12.0.1
58277	Change Request	Send CSTA notification in case a user with sipping enable does not answer or reply with 4XX and 5XX	mr12.0.1
57977	Change Request	Rtpengine developments	mr11.5.1, mr11.5.2, mr12.0.1
57143	Change Request	Avoid duplicates between missed call and Voicemail notifications	mr12.0.1
55447	Change Request	Add support for EVS codec (transcoding) to rtpengine	mr11.2.1, mr11.3.1, mr11.4.1, mr11.5.1.2, mr11.5.1.7, mr11.5.2, mr12.0.1
57142	Change Request	[ALE#23.17] Avoid duplicates between missed call and Voicemail notifications	mr12.0.1
56977	Change Request	Brazilian Portuguese voice prompts	mr11.5.1, mr12.0.1
57799	Change Request	upgrade to kamailio 5.7.1	mr11.5.1, mr12.0.1

Category: Improvement

57610	Improvement	AS: Migrate service "Auto-attendant" from DSM to AS	mr12.0.1, mr12.0.1.3, mr12.0.2, mr12.1.1
58703	Improvement	Update documentation: replace SipConnect 1.1 with SipConnect 2.0	mr11.5.2, mr12.0.1.2, mr12.0.2, mr12.1.1
54465	Improvement	TT#163105: AUI: BillingProfiles - BillingFees - Migrate main list page in the context of a BillingProfile	mr12.0.1, mr12.1.1
39840	Improvement	TT#17410: Add Sipwise services to /etc/services	mr12.0.1
54482	Improvement	TT#163350: AUI: ProfilePackages - Migrate main list page	mr12.0.1
51321	Improvement	TT#104167: AUI: HeaderManipulations - Migrate main page	mr12.0.1
54469	Improvement	TT#163108: AUI: BillingProfiles - BillingZones - Migrate main list page in the context of a BillingProfile	mr12.0.1
54470	Improvement	TT#163109: AUI: BillingProfiles - BillingZones - Migrate add page in the context of a BillingProfile	mr12.0.1
54483	Improvement	TT#163351: AUI: ProfilePackages - Migrate add page	mr12.0.1
54484	Improvement	TT#163352: AUI: ProfilePackages - Migrate edit page	mr12.0.1
57371	Improvement	rtpengine: add nftables support	mr12.0.1
57568	Improvement	Update Cypress version for new CSC UI	mr11.5.1, mr12.0.1, mr12.1.1
57567	Improvement	Update Cypress version for new Admin UI	mr11.5.1, mr12.0.1, mr12.1.1

56008	Improvement	rtpengine: add flexible input clock rate and clock rate multipliers	mr10.5.6, mr11.2.1, mr11.5.2, mr12.0.1, mr12.0.2, mr12.1.1
54294	Improvement	TT#157452: Use GPU for RTP transcoding	mr11.4.1, mr11.5.1, mr11.5.1.2, mr11.5.1.7, mr11.5.2, mr12.0.1, mr12.1.1
58593	Improvement	ngcp-location-sync does not work for carrier	mr11.5.1.3, mr11.5.2, mr12.0.1, mr12.1.1
57612	Improvement	AS: Migrate service Hunt Group application from DSM to AS	mr12.0.1, mr12.1.1
58449	Improvement	task agent improve config and dst opts parsing	mr11.5.1.3, mr11.5.1.4, mr11.5.1.6, mr11.5.2, mr12.0.1, mr12.1.1
57165	Improvement	e810 Netcard reports missing firmware	mr11.5.1, mr12.0.1
58289	Improvement	CSC: add possibility to view the CDRs of the customer	mr12.0.1
58421	Improvement	Upgrade to 9.5.x and other LTS could stop for a too small delay on mysql_upgrade step	mr9.5.8.2, mr10.5.5.3, mr11.5.1.3, mr12.0.1
58487	Improvement	task agent add ngcp.dst_nodes support to the info broker	mr12.0.1, mr12.1.1
58495	Improvement	task agent add requirements.txt sort check	mr12.0.1, mr12.1.1
58503	Improvement	task agent add isort support	mr12.0.1
58489	Improvement	Add possibility to pass 'data' field to ngcp-invoke-task	mr12.0.1
57489	Improvement	AS: Migrate service "Announcements" from DSM to AS	mr12.0.1
57608	Improvement	AS: Migrate service "Conference" from DSM to AS	mr12.0.1
58493	Improvement	task agent duplicate logs in task-agent.log	mr12.0.1
58491	Improvement	task agent improve app shutdown behaviour	mr12.0.1
58488	Improvement	task agent add venv support	mr12.0.1
58446	Improvement	new cli tool ngcp-invoke-task	mr12.0.1
58476	Improvement	task agent add info broker and get ngcp.roles	mr12.0.1
58178	Improvement	Refactor /api/clearcallcounters to support ngcp-task-agent	mr11.5.1, mr11.5.1.2, mr11.5.2, mr12.0.1
58474	Improvement	task agent port redis backend to redis.asyncio	mr11.5.1.5, mr11.5.2, mr12.0.1
58440	Improvement	task agent read redis backend config typed	mr11.5.1.3, mr11.5.2, mr12.0.1
58383	Improvement	websocket switch Redis client to AnyEvent::RipeRedis	mr11.5.1.3, mr11.5.2, mr12.0.1
57674	Improvement	Migrate Preferences Subscriber Profile to AUI v2	mr12.0.1
58409	Improvement	/api/profilepreferences are not shown for admin users	mr11.5.1.3, mr11.5.2, mr12.0.1

55897	Improvement	RTPEngine: start documenting the code	mr11.2.1, mr11.3.1, mr11.4.1, mr11.4.2, mr11.5.2, mr12.0.1
58375	Improvement	Handbook - mr11.5.1 pre-upgrade step missing extra-debian-release bookworm	mr11.5.1.3, mr11.5.2, mr12.0.1
57675	Improvement	Migrate Preferences Peers to AUI v2	mr12.0.1
57673	Improvement	Migrate Clone Subscriber Profile to AUI v2	mr12.0.1
57672	Improvement	Migrate Clone Subscriber Profile Set to AUI v2	mr12.0.1
58180	Improvement	ngcp-task-agent handle redis connection loss	mr11.5.1, mr12.0.1
56949	Improvement	Fritzbox prefix removal feature problems	mr8.5.11.2, mr8.5.11.4, mr8.5.12, mr9.5.7.6, mr9.5.7.10, mr9.5.8, mr10.5.5.5, mr10.5.5.6, mr10.5.6, mr11.4.1.4, mr11.4.1.16, mr11.4.2, mr11.5.1, mr12.0.1
58343	Improvement	Enable 'skip_cf_loop' by default, schemes update	mr12.0.1
53022	Improvement	TT#129214: CSC: QuasarMigration - Remove all commented code	mr12.0.1
53027	Improvement	TT#129218: CSC: QuasarMigration - All components must have "name" property	mr12.0.1
58321	Improvement	ngcp-task-agent handle backend init reconnect	mr11.5.1.2, mr11.5.1.3, mr11.5.2, mr12.0.1
58322	Improvement	ngcp-task-agent.service disabler dependence on keydb.service	mr11.5.1.2, mr11.5.2, mr12.0.1
58234	Improvement	ngcp-task-agent improve tasks<>backends,brokers approach	mr11.5.1, mr12.0.1
58294	Improvement	Add location mapping provisioning on KCT	mr12.0.1
56447	Improvement	rtppengine: bring Janus mode up to date	mr11.3.1, mr11.3.2, mr11.4.1, mr12.0.1
55492	Improvement	Start implementing E2E testing for new CSC interface	mr11.3.1, mr11.4.1, mr11.5.1, mr12.0.1
58194	Improvement	Improvement for peer probing issue	mr9.5.7.9, mr9.5.8, mr10.5.5.5, mr10.5.6, mr11.4.1.12, mr11.4.2, mr11.5.1, mr12.0.1
58176	Improvement	ngcp-task-agent change hardening to allow command execution	mr11.5.1, mr12.0.1
58214	Improvement	Improve ngcp-ngn-in-a-box-activation script with a prompt about config.yml changes	mr10.5.5.3, mr10.5.6, mr11.5.1, mr12.0.1
58213	Improvement	Improve kamailio dispatcher fill when ngcp-ngn-in-a-box-activation executed	mr10.5.5.4, mr10.5.6, mr11.5.1, mr12.0.1