

WCS 5.2 release notes

Build	Date	Ticket	Notes	Hash
5.2.1970	24 Apr 2024	WCS-4076	Fixed: WebRTC ABR does not work in obfuscated build	a31a743e78532d9933bef645d403987469443538
5.2.1969	23 Apr 2024	WCS-4046	Added: WebRTC FEC opus support	1342daa7dd3331c5e64f14b80e4e8a1db1bb52df
5.2.1968	23 Apr 2024	WCS-4055	Added: HLS connection statistics: client identification	7045381ba8b7edd5c0815b16d33d1b85b8bd c4a2
5.2.1965	19 Apr 2024	WCS-4115	Fixed: HLS settings refactoring	41a7d831bb5c82a74981c78bf8b2dd212df40b08
5.2.1964	19 Apr 2024	WCS-4119	Fixed: WHIP: any stream publishing session may be stopped. Docs: Authentication using Bearer header	b0ccca50508a289d5dee6209114bd3fd422fb66b
5.2.1963	18 Apr 2024	WCS-4077	Fixed: Socket Exception: Message too long	94c22d6614205bf9587e2445e8fec72d1373f752
		WCS-4081	Fixed: HLS auto start: NPE if publishing stopped right after start	
5.2.1960	16 Apr 2024	WCS-4111	Fixed: Prometheus stats for mat: <code>data_packets_with_empty_payload</code> parsing error	0986598bde79ab6106d542047b102ac8673036d4

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5.2.1959	15 Apr 2024	WCS-4105	Added: HLS: manifest request arguments should be passed to playlist	11d41cca1f63aea90596ff9b56fd7b241938dbce
5.2.1958	12 Apr 2024	WCS-4100	Fixed: WCS return 404 if request hinted segments for recorded HLS stream.	62250378814ad4c197987e0a818f01c901b9d9a5
5.2.1956	12 Apr 2024	WCS-4059	Fixed: LL HLS freezes in player after bandwidth resurrection	f59b7fcb51ed5c568b5bb6f7c2a5fe1ec3c8dbba
5.2.1955	11 Apr 2024	WCS-4086	Fixed: WHIP: RestClientConfig is not applied on /connect REST hook	eb94b07d686bb326a3a3814629ea406c31e7da87
5.2.1954	10 Apr 2024	WCS-4108	Fixed: LD_PRELOAD is not used when starting a server	fcf765e88d8fb7e462d73ec0c810c13461f1a4a8
5.2.1953	09 Apr 2024	WCS-4080	Fixed: NPE in VideoDistributor, decoder is not released	c20eab85bf483deb99e430065e2d1b4b80225ad3
5.2.1950	05 Apr 2024	WCS-4094	Added: Mixer - Custom XML Layout - Force stream to give n position. Docs: Placing the stream picture to a certain position by identifier	4276938033c3f1d44367d3a72b5c002c68a3ce86
5.2.1949	04 Apr 2024	zapp-764	Fixed: WCS - Room destroyed message after join meeting	7d92d7609cc2be828c2e453461b5c54c69610618
5.2.1948	04 Apr 2024	WCS-4101	Fixed: CDN HLS ABR: default HLS transcoding enabled: encoders not released	2ade12189ba6795a9b137c497e179847f3c1643d

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5.2.1947	03 Apr 2024	WCS-3652	Added: GPU encoding support	055c51a317bd8644468960f686d156f83a066074
		WCS-4072	Fixed: Video transcoding for stream with changing resolution: encoder not released. Docs: HLS known issues 13	
5.2.1943	27 Mar 2024	WCS-4002	Added: Add re-INVITE support for SIP calls	540f33e0dfa307341a2802881d4c71a861b252f5
5.2.1942	25 Mar 2024	WCS-4085	Fixed: hls_auto_start, hlsabr_auto_start: work even if hls_enabled=false	8403c31237d4736f7853034f9041a2436851c01d
5.2.1939	25 Mar 2024	WCS-4098	Fixed: HLS ABR disabled: HLS ABR subscriber: NPE	a92fdeec009a9196038fc25b17ac7b9d701bd649
5.2.1938	19 Mar 2024	WCS-4093	Fixed: java.lang.UnsatisfiedLinkError in netty 4.1.31	b601d1289544fb0ee005023053a53fec17ac3638
5.2.1937	19 Mar 2024	WCS-4088	Fixed: HLS ABR, portrait orientation: upscale	d42bf824bee2f9f84cb62815515f5b1ea284f5e7
5.2.1936	18 Mar 2024	WCS-4056	Fixed: io.lindstrom.m3u8.parser.MediaPlaylistParser ignores #EXT-X-MAP tag for incomplete segment	c83902503ad6ac6c77c3ad0e588e1be8dc4893f2
5.2.1935	15 Mar 2024	WCS-4090	Fixed: WebRTC as RTMP republishing to localhost: plays only audio	49c1804444b8798aed425d365fb3007bf33cb31e

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5.2.1934	13 Mar 2024	WCS-4084	Fixed: HLS AB R: threads dea dlock	17b1d6dcc6f3 deb52a7b5f6e 7c768ce0d4e6 6e74
5.2.1933	11 Mar 2024	WCS-4068	Added: Recor ding flow logg ing	77b9bfbf79a4 1d3ee4595320 dbdae83baf96 be1b
5.2.1931	11 Mar 2024	WCS-3994	Fixed: REMB: an excessive publish bitrate lowering unde r a high load	7f39ae3a14d5 1e0ff2d6de06 6351b58a0bc9 3c39
5.2.1930	07 Mar 2024	WCS-3808	Fixed: New str eam injector: tests	fdd564985e61 6a4c611d9ce3 2f84f942cfad9 cbb
5.2.1929	04 Mar 2024	WCS-4050	Added: Extend RELS by HLS clients metric s	7dfd5554c988 4508eb98ce1b a93e28ebd516 1ce5
5.2.1924	28 Feb 2024	WCS-4061	Fixed: Regres sion since 5. 2.1883: heap memory leak while publishi ng WebRTC	bcf301b257cb 9ee53889b23e ad48dca00951 5a41
5.2.1923	28 Feb 2024	WCS-3985	Fixed: Mixer s tuttering	8a52a9c1de1c 99e5dcfe587c f1989b50574e edd3
5.2.1922	27 Feb 2024	WCS-4054	Fixed: HLS de bug recorder: enableRecordi ng with duplic ate ids returns 409	04e824f1e252 bb1944bbae1b b03f83eb2c49 f925
5.2.1921	26 Feb 2024	WCS-3723	Fixed: SIP call s audio is not recording	1173e75b4157 5a6b002a6bb5 6911f4e8c705 38d8
5.2.1920	22 Feb 2024	WCS-4047	Fixed: HLS AB R replaying au dio phrase twi ce	d6b5c7e7e7fa adf12a79ceed 8940c64f6cc2 f5ac
5.2.1917	20 Feb 2024	WCS-4022	Added: Extend RELS by HLS metrics	ec5644587178 34c4c47afd7b 47a45d7f5153 aadc

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		WCS-4034	Fixed: RELS stats is displaying when RELS is disabled	
5.2.1916	19 Feb 2024	WCS-4000	Added: CDN HLS ABR: Force transcoding by highest profile if B-frames are detected. Docs: Force transcoding of a maximum ABR quality only if there are B-frames in a source stream / CDN 2.6	e3bf1de26d2edcd7d5c126e135f943e8435ed836
5.2.1915	16 Feb 2024	zapp-721	Fixed: SFU SDK - SFU Controller does not parse Zapp room stats	b0d5bdb9ff5cd2c8ec2048f8d7c34ee2fff0039
5.2.1914	16 Feb 2024	WCS-4038	Added: OpenCV integration example. Docs: Decoded frames interception and hanging with OpenCV	97abbe85172b0fe6b2191d1abe933d034a142ac3
5.2.1913	15 Feb 2024	WCS-4023	Fixed: HLS LL (non LL) ABR (non ABR) Debug API	c92335035cb62e412408e10f236c35f1966c4042
5.2.1911	12 Feb 2024	WCS-4030	Fixed: 9:16 streams support for HLS ABR LL. Docs: Vertical video aspect ratio calculation	abcbb87464b83ebfa657b0d72b063cf3155e8f26

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5.2.1910	09 Feb 2024	WCS-4033	Fixed: SIP: audio only incoming traffic delay. Docs: RTP traffic buffering should be enabled in some cases when republishing SIP as Stream or SIP as RTMP	aca97f332396d00d669e59c34c14ebf4e70aff0d
5.2.1909	09 Feb 2024	WCS-4027	Fixed: SIP call: no video	fb217c472ec07b8d966280e0118222a9238e3514
5.2.1908	07 Feb 2024	WCS-3982	Added: SFU SVC support with VP9 codec	583432c975191fb059897350cf517192bc464813
5.2.1906	02 Feb 2024	WCS-3856	Added: TCP pool stats	029a5a00f63ebbf842ea4b44dac065bd7041138c
5.2.1905	01 Feb 2024	WCS-4035	Fixed: RTMP publishing: stream already in use	77cc41123fc842c0c65e8c4a514d9e8d29f4c3f6
5.2.1903	31 Jan 2024	WCS-3989	Fixed: Mixer: add: passed but not applied a vatar is displayed in find results	58ce10f85f5209cbfc399999496445f821f6eba9
5.2.1900	30 Jan 2024	WCS-3981	Fixed: REST hook: mixer, WHIP: stream published when publishStream is forbidden	92f3a9f0a625cbe52eb09d06595ea26671bca6cd
5.2.1899	30 Jan 2024	zapp-729	Fixed: WCS/App - Regression: application fails to connect to server	dc2e6c0aaa5243492fef6f65e5255f7cef893168
5.2.1898	29 Jan 2024	WCS-4029	Fixed: Missed H264 depacketer units counter grows	a1297affd7ab3ad27caee944ce3012bbe5147050

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5.2.1897	26 Jan 2024	WCS-2440	Fixed: WCS build on Java 11+	6029ab7dfe5ec0562b4157d333aed3af5f3445c4
5.2.1896	25 Jan 2024	WCS-4008	Extend RELS by metrics	77381321c7a046f2b69737f8c3b605a12068da28
5.2.1895	24 Jan 2024	WCS-4017	Fixed: WCSSF UBridgeTest.abrSession fails	65b520d2971a6dfa5746656d45123294b0c74c32
		WCS-4019	Added: HLS: autostart for single node AB R. Docs: HLS segments automatic cut for stream published	
5.2.1888	18 Jan 2024	WCS-3970	Fixed: Mixer stream: videoMuted when a participant video is muted	a542a89c8460334e470b8a45e80281ffd00e8163
5.2.1885	16 Jan 2024	WCS-4020	Fixed: Regression: pulled RTPMP does not play	4cf313657d056d573cffa3e62f786308572d9ccf
5.2.1883	15 Jan 2024	WCS-3988	Added: Add channel writable statistics. Docs: Mediasession statistics logs / TCP channel statistics	36f560b20833c8ecc755fd06cb3d3196d2d59268
5.2.1877	12 Jan 2024	WCS-3999	Remove netty sources from WCS	ebffe0809c2ff7d198a158512a4804362f87bdb1
5.2.1876	10 Jan 2024	WCS-3966	Fixed: Conflict between rest-mixer video muting and web rtc on client	e0172d12cf1f79aa0e34f21a0941e7afa96e90aa

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5.2.1869	10 Jan 2024	WCS-4014	Fixed: Exceptions in MuxEncoder and StunUDPSocket	aa2839b94668df71f288b1f6cb2177c2ab78314
5.2.1867	09 Jan 2024	zapp-667	Fixed: WCS - obfuscated build, cannot open meeting in new window	90322ea7e680d6b1a032ebc97b72b267a2742af9
5.2.1862	04 Jan 2024	WCS-3979	Fixed: Extend routing table with additional stream information. Docs: Detect stream parameters by metadata or media traffic	3bddaaa7a3b78c1ad49435daaa446477768fe969
5.2.1860	29 Dec 2023	WCS-4015	Fixed: HLS ACL token authentication broken after HLS query refactoring	a6657b0d89a4635902e5af26126f64c2f6e881a8
5.2.1859	28 Dec 2023	WCS-4011	Fixed: TCP ports are not checked in the PortManager	45988f0654bd0fbf8d793731b30bc59db82a683f
5.2.1858	28 Dec 2023	WCS-3937	Mixer avatars should be able to be added other ways than REST API. Docs: Avatar pictures displaying for audio only streams	bc0d263abb61738e0f9aabb2da4044f3e30b13ee
5.2.1857	28 Dec 2023	WCS-4005	Fixed: VoD: hasVideo and hasAudio for video-only or audio-only streams	47a1b565fd281747708d8bf23502985368f38180
5.2.1856	28 Dec 2023	zapp-717	WCS/SDK/Redux - send few qualities for video track and receive available qualities	ec61f558358044452bbdd05bc357e0075c576c7e

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5.2.1852	26 Dec 2023	WCS-4003	Added: Use HLS ABR URI path prefix instead of stream name suffix. Docs: Manifest URL setup	c5ec73a32e941e62e3b9489566219c9b93e08421
5.2.1847	18 Dec 2023	zapp-694	Fixed: WCS/App - Auth token is undefined if no keystore at server side	0dd4f230c53346bf40486579def9fd108bcd466b
5.2.1845	15 Dec 2023	WCS-3978	Fixed: Refactor HLS Query parameter	4c2eeb61ebb52a18537549a23aab272188620e6b
5.2.1844	13 Dec 2023	WCS-3799	Fixed: Stream injector: RTMP audio-only injected: no injected audio. Docs: Inject v2 REST methods and responses	624f732e64e6d32296009661d5977afc2af1aeec
5.2.1843	13 Dec 2023	WCS-3950	Fixed: Mixer output stream should be smooth even if input stream goes bad. Docs: Realtime stream mixer known issue 9	3325a2ac0b3eabfd4330362799677b0828ccf84d
5.2.1842	11 Dec 2023	WCS-3996	Fixed: Even number alignment for width and transcoding ratio 16:9. Docs: Picture width alignment while preserving a picture aspect ratio	3aefd177a905eae19cb6580a04fc7b437083192c
5.2.1841	08 Dec 2023	WCS-3972	Fixed: MCU mixer: stream name decoded: no audio and video	7a27d21cca79b8d93273d7bb6b779a063f6572c

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5.2.1840	06 Dec 2023	WCS-3967	Fixed: Force transcoding by highest profile if B-frames are detected. Docs: Force transcoding of a maximum HLS ABR quality only if there are B-frames in a source stream / Force transcoding of a maximum WebRTC ABR quality only if there are B-frames in a source stream	c7f8e4583d31744ee2aec2e5b4ac45ae9dbd0e08
5.2.1839	06 Dec 2023	zapp-706	WCS/SDK/Redux - should change message status when recipient is loading messages after logging in	49910d01524e398595adbafc25b732259817032b
5.2.1838	06 Dec 2023	WCS-3958	Fixed: SDR logs - No stream provider, No stream reason, CONNDR - duplicates, CONNDR - duplicates	255714c7a9627f476cabdd47633bfed49f6370c9
5.2.1836	05 Dec 2023	WCS-3991	Fixed: JitterBuffer produce broken frames due to UDP packet loss	6bc669e0363d2ea3621c73a3012a2bbcb68cd15
5.2.1835	04 Dec 2023	WCS-3983	Fixed: Freezes in CDN when publishing RTMP stream with high bitrate. Docs: UDP socket buffers tuning on system level	86f51705c905095127e1e6b9c31eff2eec8acd5e

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5.2.1833	30 Nov 2023	WCS-3987	LL HLS, m4s: Playlist without partial target duration can not has partial segments	bdb19ddf19b21502bb71b2c2900ac51e4f4855a7
5.2.1831	30 Nov 2023	zapp-626	Fixed: WCS/S DK - Optimize attached file chunks cut	284b250a994d32c9880f4dfb763d09d3ad918e19
5.2.1826	29 Nov 2023	WCS-3928	Fixed: CDN ABR preloader always has 4x3 ratio	757442c0554f7978476cb8eab4cd8a4a03a5d9e8
5.2.1825	28 Nov 2023	WCS-3929	Fixed: Simulcast qualities are dropping because of the REMB. Docs: Bitrate management when capturing WebRTC stream in browser	126289de1172cff86934a7d26276dab9487dd41c
5.2.1823	27 Nov 2023	WCS-3932	Fixed: CDN: stream playing on edge from origin by name with ABR suffix via WebRTC	b80a41e9b11611d6f75ef4ec9e80d4f562685044
5.2.1820	24 Nov 2023	zapp-677	WCS - should verify sign in on new client device	69c0f624b36834c6b692cb94de4b1c2b0631ac57
5.2.1816	24 Nov 2023	WCS-3891	Added: WebRTC-HTTP ingestion protocol implementation. Docs: WebRTC publishing via WHIP	45e3ce860b828fa366ac9e48cfd67987dd5fb314
5.2.1814	24 Nov 2023	WCS-3976	Fixed: Prevent synchronization drops for long playback sessions	09db01c20850c55fb8a8e3b3202d5ca154658d7c

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5.2.1807	13 Nov 2023	WCS-3939	Fixed: CDN: R TSP subscription fails	91e2f6503f89dca116f2f4beeefbf708c43e89bf
5.2.1806	13 Nov 2023	zapp-692	Fixed: WCS - /sfu/zapp/test/add_bots does not add bots to vanilla SFU SDK room	97645ced12ac96ea910baf6fcf827093ee64d631
5.2.1805	10 Nov 2023	WCS-3954	Fixed: MPEG-TS UDP stream doesn't receive media after SRT connection attempt	52814bf3c2aa712620d4a4720d7318057bac0c8d
5.2.1804	10 Nov 2023	WCS-3971	Fixed: SFU bridge: hasVideo and hasAudio of video stream	03528de07bf052c0129717cb473665afff200e55
5.2.1803	09 Nov 2023	WCS-3701	Added: Encode H265. Docs: Codecs supported	1c66811ce6d9ab212c5273aa4d2f876eb541a08b
5.2.1802	09 Nov 2023	WCS-3931	Added: Stream name decode in mixer. Docs: Characters decoding in input stream name	913d2bbdcff57c6bb3b86283a1118096c1fd720b
5.2.1800	09 Nov 2023	zapp-675	WCS/SDK/App - store token on the server side so that client can use it to reconnect/automatically login.	ca3102eb054b5ceabfe8030e4f2f3fd36faba86f
5.2.1799	08 Nov 2023	WCS-3948	Fixed: SFU bridge: no audio and video	27adf6bb2eb2e850905fed0044f7a1bcf365c22a
5.2.1798	06 Nov 2023	WCS-3952	Fixed: Mixer: setAudioVideo: videoMuted	890d0195f0959caf701e6b9d6f9c9e3bfed91416

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5.2.1796	01 Nov 2023	WCS-3907	Fixed: stat: connections_hls: HTTPS connections not counted. Docs: HLS subscribers and connections displaying issues	f739b9649fce129cdb6ff8c240ac9cd7cab9a9b
5.2.1795	01 Nov 2023	WCS-3943	Fixed: Check audio transcoding (opus -> AAC) for synchronization errors	93d1036eaae1ab4d258b2d4121ab6e29567d2e86
5.2.1794	31 Oct 2023	WCS-3953	Fixed: RTSP H265 is not playing. Docs: Stream timestamp fix / Setting a custom name for captured streams	a4becc7785037dd2f460b6190aa9e177a21a84cf
5.2.1793	31 Oct 2023	zapp-686	Fixed: NPE when allow_domains setting is used	573eab1e818851198d7da08c64b8bbc849b1dda9
5.2.1789	30 Oct 2023	WCS-3959	Fixed: /rest-api/hls/find_all fails on obfuscated builds	ca9bb15730b90d1f36b0eec8f0165018341cad1d
5.2.1788	30 Oct 2023	WCS-3887	Fixed: BindException when RTSP request is redirected	e889f0782c334fe1afe33875a33705a2f7c39c7a
5.2.1784	27 Oct 2023	WCS-3955	Fixed: Screen sharing stream freezes in mixer. Docs: Disable tracks activity checking by stream name / Screen sharing known issues 4 / Realtime stream mixer known issues 8	0320f8c40c1a23ac4f9d53ee03b614ba417a07f

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5.2.1783	26 Oct 2023	zapp-666	WCS/SDK/Redux - optimize method "markMessageRead"	e63fc27414a09fa1fba0731dc6831d357b5d9b4f
5.2.1782	19 Oct 2023	WCS-3944	Added: SDP origin username setting	2c19ea1c5c48070f3ee21c42cb9c322744c0a373
5.2.1781	19 Oct 2023	WCS-3935	Fixed: HLS ABR: long playback issue	ded71a3307229bb58961d893f518cb505f15caac
5.2.1780	18 Oct 2023	WCS-3945	Fixed: WebRTC ABR limitation of available qualities when publishing via webrtc	cc4acfdd27976234a426d1118e819f48a649f54a
5.2.1778	13 Oct 2023	zapp-495	WCS/SDK/App Client should be able to indicate what tracks should be delivered from server. Docs: SFU SDK builds 2.0.248 and later	f777deca728cc593dc55642a22e15658f066824c
5.2.1777	13 Oct 2023	WCS-3754	Added: Server API to get HLS statistics. Docs: HLS statistics displaying / REST API examples	ba2684df44827d22de2d1810acc22012d14326dd
5.2.1776	12 Oct 2023	WCS-3851	Fixed: Chrome to Firefox video call: no video, VideoProcessor NPE, "Decoder result leaked"	508dc5c84b9f146a3aaf52106c1610ad29bd163c

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5.2.1775	12 Oct 2023	WCS-3926	Fixed: Check frame PTS transfer from transcoder to edge for CompositeMediaSession. Docs: Some RTSP camera streams can lose audio and video sync	83a7fb88f9a029ae70f070ed0a1ff97f92f006e4
5.2.1774	12 Oct 2023	WCS-3895	Fixed: WebRTC ABR upscaling	766a5fd700a5758e4409887ecf2ec82ca462d9a1
5.2.1773	09 Oct 2023	WCS-3906	Fixed: HlsSubscribersTests should test LL/nonLL/ABR streams	7d676f27da0cabf7d7c6377b20c6fba951b2e685
5.2.1771	03 Oct 2023	WCS-3930	Fixed: HLS provider is not terminated on timeout	cc666d647430e3d289945ea2e1f74ecfdec1a706
5.2.1770	03 Oct 2023	WCS-3933	Fixed: HLS: m4s playback does not start in obfuscated build	06dc4e2fc3760cb99678bf73498b42c89954ee41
5.2.1767	29 Sep 2023	WCS-3909	Fixed: Pulled RTSP is not playing via MSE	6dd505d66a16e602d5523cf5ef9dda1632ce2b8a
5.2.1766	29 Sep 2023	WCS-3912	Added: Scripts to pull and push load tests. Docs: Scripts to test a maximum number of WebRTC publishers/subscribers	e54a69c4e365abe9f7024a968600d1c46fb9707d
5.2.1765	28 Sep 2023	WCS-3921	Fixed: Restrict direct publishing on Edge-servers. Docs: Stream publishing to CDN servers restriction	77613bef899dec03a83680282cbca3305b469c29

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5.2.1762	26 Sep 2023	zapp-646	Split database from YAML	08ffb341ca71fccf94d1600856504d1530913dd4
5.2.1760	26 Sep 2023	WCS-3902	Fixed: RTSP long playback establishing high resolution stream. Docs: A first pulled RTSP subscriber issue	2f22ae36c77d2888ca64a82c7ab70a014da6d2f6
5.2.1759	19 Sep 2023	WCS-3894	Fixed: CDN HLS ABR: INITIALIZING, no transcoding. Docs: RTP bundle inside CDN	a4b12ec3ed8ac45f644eb602d63d963364c7fdb4
5.2.1756	15 Sep 2023	WCS-3924	Fixed: NPE when stopping RtpVideoGenerator	9099f59fa5b8d4006fdc9829afbc5f0f75094817
5.2.1755	13 Sep 2023	WCS-3866	Fixed: SIP multistage call: no video with AV generator enabled. Docs: SIP calls in WebRTC-compatible browser known issues 6 / SIP calls in WebRTC-compatible browser known issues 7	dd5e4df5303159afe445e818ca0a65bde6ddc57d
5.2.1753	12 Sep 2023	WCS-3915	Fixed: HLS: does not play audio only/video only streams	5bd2d45422af2ea10e0db18890eb68a57716e27c
5.2.1752	12 Sep 2023	WCS-3542	Fixed: Correct termination of HLS streams when clearing the directory	912752d1d84817aa86afe37840c4814f3518698f

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5.2.1751	08 Sep 2023	WCS-3833	Fixed: Offline mixer: decode stream name. Docs: Characters decoding in stream name while mixing a multiple streams record	0b3fadb4040a52e8a8a7bbfcb340bf9241c2990
5.2.1749	07 Sep 2023	WCS-3855	Fixed: HLS segmenter refactoring. Docs: Using a common network stack for HLS and Low Latency HLS	7a930b30ca0ebb718560c7e36463f4af001b32b8
5.2.1744	06 Sep 2023	WCS-3899	Added: Add metrics to HlsSubscribersTest	c867de7820c85c2d253c8ef41f2cc4af8c094232
5.2.1742	24 Aug 2023	WCS-3903	Fixed: HlsSubscribersTest does not work with non-latin domains and IP addresses	7818aba5f2fa382eafdcd5185fb59cd4ad8b7dba
5.2.1741	24 Aug 2023	WCS-3900	Fixed: RTSP freezing	ef6b1207e722055850e3a32630f4a555893887f6
5.2.1740	24 Aug 2023	WCS-3904	Adapt load tests for production open ports	e4b56aa42c25079516447dfda0c16ad4a2f18435
5.2.1739	22 Aug 2023	WCS-3759	Added: Filter RTP clients by stream name. Docs: Stream publishing and playback restriction by name	496420e20a6774c1cfeb88944b4e90925e275d48
5.2.1737	16 Aug 2023	zapp-615	Fixed: Incorrect showing recipients status message	145ca53680253ddf5efc042b49c2c2039c990f26

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5.2.1736	15 Aug 2023	WCS-3872	Fixed: LL HLS: Play non ABR stream for CD N case	7ff2384590a54d2a8eb2e638c810682e777002a1
5.2.1735	15 Aug 2023	WCS-3893	Fixed: HLS: ABR profiles are dropped according to WebRTC ABR profiles list	325052c367a7ec1ec61a471d391094fa38ed5c7c
5.2.1733	14 Aug 2023	zapp-550	Fixed: WCS/S DK/Redux - Allow participants to have the same nicknames	0f1aeb1f32a38c390b310049d133d79179835a5c
5.2.1732	14 Aug 2023	zapp-594	Add IDs to attachments	74ae1f42ca091f4039b4bbef707fc73cc6e76cf0
5.2.1729	09 Aug 2023	WCS-3880	Fixed: Restore LL HLS preloader. Docs: LL HLS preloader	79b27f856dfa2e47e3a4184dc3274d6da1947c79
5.2.1728	07 Aug 2023	WCS-3874	Fixed: LL HLS cut logs: ts: Fps changed from 0 to 0	fd92de648b93c5d9fc3523651c4af54ac2ab457c
5.2.1727	03 Aug 2023	WCS-3883	Fixed: Build libskija with glibc lower than 2.31. Docs: Avatar pictures displaying for audio only streams	009a1ddff3d66e8c8905a4db1f2c35e7f904d18
5.2.1725	02 Aug 2023	WCS-3748	Fixed: <code>codecs</code> property <code>h265</code> is <code>wrong</code> on server startup	40822b5adf37084adf252a8b21392dc1b9b5b221
5.2.1724	02 Aug 2023	WCS-3849	Fixed: LL HLS: enable m4s container for CDN case. Docs: m4s container support	25af060995d9d23f9442a932914286d0547fb7d8

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5.2.1723	02 Aug 2023	WCS-3884	Fixed: HLS: <code>hls_store_segment_in_memory=true</code> : p reloader is not playing	9fa596abbc6f5181ac5cec902dae48140ad9f35d
5.2.1721	01 Aug 2023	WCS-3881	Fixed: RtmpPcapTool does not play/parse the dump correctly	69932c4690baaca2d3c209b7e9609ee1afba3393
5.2.1719	31 Jul 2023	WCS-3863	Fixed: New injector: VOD inject function is missing. Docs: Injecting a VOD stream from file	8aef26607373b05d5ac9c0ef5236273fbd4249ef
5.2.1718	28 Jul 2023	WCS-3882	Fixed: HLS does not start with default settings	472510bb50bee56a6dce9cc8db4d86ca2537b5aa
5.2.1717	28 Jul 2023	WCS-3838	Fixed: MP4/m4s recording issues for streams with some sample rates	d33d7111382a6b436c8aef03e1c807d60b4bd046
5.2.1716	27 Jul 2023	WCS-3869	Fixed: HLS: preloader not played for first subscriber	49f1420b289f213607d6da1f8a44b05987194f64
5.2.1715	27 Jul 2023	WCS-3817	Improve HLS Discontinuity test	00502fc75de0fb59612c448a907efda8f03df43d
		WCS-3859	LL HLS m4s: freeze in Safari when publishing resolution has changed	
5.2.1713	26 Jul 2023	WCS-3854	Fixed: LL HLS: segments should be primarily stored in memory. Docs: Using memory to store HLS segments	82643ca8e0b54591f99133ab08ac495eaa4b5dbb

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5.2.1712	25 Jul 2023	WCS-3871	Fixed: HLS ABR in CDN: cdn_profiles.yml with duplicate profiles: sorting order	b665746c1a8f5d8819659306fb7c9d15fb03716a
5.2.1711	19 Jul 2023	WCS-3744	Fixed: RENDITION_REPORT_LLHLS-ABR refactoring	76e9500ecf36fd3eed4f884a09a78000677615b6
		WCS-3745	Fixed: LLHLS: ABR writers without synchronization	
		WCS-3747	Fixed: hls playlist refactoring	
5.2.1710	18 Jul 2023	WCS-3868	Fixed: Server crashed when adding or setting avatar picture for audio only stream in mixer	daa8aa8ef7b2968273e479749ccbba72eb0ce18b
5.2.1709	18 Jul 2023	WCS-3853	Added: LLHLS: add HLS cut logs per stream to /hls/finished_all. Docs: LLHLS stream issues displaying	26456858f8bbff7fc8fb8ed66406af11e861a7e9
5.2.1708	18 Jul 2023	zapp-573	Fixed: Waiting room issues	e6ae92c976886067f4a903e7a50b9dce325a1561
5.2.1707	14 Jul 2023	WCS-3552	Added: HLS GAP tag usage	63ca7d44953acd994ad296c2b73975bf3698e170
		WCS-3857	Added: DNS name resolution checking. Docs: DNS testing and caching	
		WCS-3870	Fixed: LLHLS ABR: ts: video artifacts	

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5.2.1697	12 Jul 2023	WCS-3836	Added: Add avatar PNG for use in Mixer. Docs: Mixer REST methods and responses / Avatar pictures displaying for audio only streams / REST API methods / /mixer/set_stream_avatar example	8d8b2777aa77853a58e0516720c6c72fd4eedf77
5.2.1694	11 Jul 2023	WCS-3848	Fixed: LL HLS ABR (m4s) not played	7f51f9ec9fd88a57ab2b9b62131f27a522439990
5.2.1692	11 Jul 2023	WCS-3794	Fixed: HLS ABR in CDN: profile without height	e6eaf44a53ce0e5b72cd741fe2c7a5af99d9ddf3
		WCS-3797	Fixed: HLS ABR in CDN: if there is a profile without height all routes from transcoder will be in the original size	
5.2.1691	06 Jul 2023	WCS-3837	Fixed: SIP calls A/V generator regression	7f8ceb2a72f24926f4c0ebd8b2c257915e9e51d6
5.2.1690	29 Jun 2023	WCS-3847	Fixed: Audio/Video only LL HLS issues. Docs: HLS ABR support / HLS known issues p.12	0b21cfd1113d6526aa8684873a7a8ea8a6db14e
5.2.1688	27 Jun 2023	zapp-509	Fixed: incorrect reply position partial download messages	aa1066d9901c2db1bbfa911bb2c958ab0bd70c69
5.2.1687	26 Jun 2023	zapp-563	WCS/SDK/React - Add info for file section	62f1516ef1f0427957599657714b76d8bf81ac5d

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5.2.1685	20 Jun 2023	WCS-3841	Fixed: LL HLS ABR: m4s: "Ca n't initialize m anifest" NPE	066f20d26368 f6a47857d781 43686a9947c3 6b5f
5.2.1684	20 Jun 2023	WCS-3737	Fixed: LL ABR HLS in CDN: S afari issues	dbedaadea485 79831048e546 0ee092d2ca86 b3fc
5.2.1683	19 Jun 2023	WCS-3844	Fixed: LL HLS: wrong aspect ratio for pulle d streams	441803796f82 f76c5dedfd5ef 751178621cec 4d0
5.2.1681	16 Jun 2023	zapp-504	Fixed: Fix earl y sending of e vents when a participant joi ns	946693e9a9d0 21313e185d5c a0934e67910a 1f07
5.2.1679	15 Jun 2023	WCS-3830	Fixed: HLS: C an't start playi ng using strea m url. Docs: Streams which can be played as HLS / HLS segments automatic cut for stream published	83599d704f7d 38a69228e9e1 3cb9a676e133 7992
5.2.1678	15 Jun 2023	WCS-3829	Fixed: LL HLS: SRT as m4s pl ayback issues	070d6dafac67 62d395a4f95b f8149424e4bc 7aec
5.2.1677	13 Jun 2023	WCS-3813	Fixed: LL HLS: m4s: auto sta rt issues	d015e6296a6c a30894a5d80d 8f8145cb5089 f7a0
		WCS-3820	Fixed: LL HLS: m4s: freeze in HLS.JS	
		WCS-3821	Fixed: LL HLS: m4s: unsync i n VLC. Docs: HLS known issues p. 11	
		WCS-3822	Fixed: LL HLS ABR: m4s: do esn't play vide o-only if profil es have audio	

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5.2.1676	13 Jun 2023	WCS-3790	Fixed: LL HLS: NPE when source stream is unpublished	642be26a291636d91dc5e16bac855081fa5dd7eb
5.2.1675	13 Jun 2023	WCS-3775	Fixed: RtspSdpProcessor.java - Refactoring	aec56672585cfaebd75c07815301c94ccb51c337
5.2.1674	09 Jun 2023	zapp-536	Fixed: User can't enter meeting with audio	5bdc6351fbf7a56b95ea6ca25db9d984a57dad9e
5.2.1673	08 Jun 2023	WCS-3807	Added: H.264 Adding Annex C specification support	933c7b7eff9b991b78fd972a17f316a7e5894f63
5.2.1672	08 Jun 2023	WCS-3825	Fixed: Video call: music on hold is not played. Docs: WebRTC-SIP gateway known issues p. 5	ae8b1a19675df0d584f5680b4300f6e00faad8b4
5.2.1671	07 Jun 2023	zapp-527	WCS/SDK/Redux - Pagination for bookmarks	968c044ef5ccb13e36228225ec49addfe1744fa0
5.2.1670	07 Jun 2023	zapp-543	Fixed: New message reply - doesn't show parent message	7d1c2e241da5d747d3a40d8f38cb747bd38083ac
5.2.1669	05 Jun 2023	zapp-525	Fixed: Incorrect loading top messages	a26f3cf72ae69c42547f501de6ab5722da855a7b
5.2.1668	05 Jun 2023	zapp-403	Added: WCS/SDK/Redux - Mute track events	7bf3231ae89772c299210b4f835b5832961ac881
5.2.1666	31 May 2023	WCS-3785	Fixed: Refactoring RTSP non-Interleaved feature	675fdbd6bc7415352e8c9063d9b18feac69f7ab7

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5.2.1665	31 May 2023	WCS-3772	Fixed: Optimize encoding for HLS ABR and WebRTC ABR. Docs: Using the same video quality profiles for HLS ABR and WebRTC ABR	a666634f20d7788066faebddf5536c87dbffdc87
5.2.1663	31 May 2023	WCS-3806	Fixed: WebRTC ABR profiles: sort in description order. Docs: Video quality profiles sorting	e8b09f44e98ac4e61b9861bf69b0ff3e09a40505
5.2.1662	31 May 2023	zapp-521	WCS/SDK/Redux - add info to loaded bookmarked messages	bb42056291bb7391bb57a0f005f31d27d067e087
5.2.1661	31 May 2023	zapp-498	Fixed: WCS/App - change chat creating and fix bug with empty chat	497ffaade4ce5369d9481117c49fd92a579a7d78
5.2.1659	30 May 2023	WCS-3816	Fixed: LL HLS: m4s: NPE if stream not found	7cc5552e20b43ad6dd25c38c01f012f65ca94dee
		WCS-3827	HLS ABR: ll_hls_fragmented_mp4=true: fails with NPE	
5.2.1658	30 May 2023	WCS-3812	Fixed: LL HLS ABR: doesn't start writing, NPEs	47e6c405415401edfa5bd3d6733b23860708de64
5.2.1657	30 May 2023	zapp-305	Fixed: New message line on user own message	0c469a51743c495f752b41341c5e379a23bd6f5b
5.2.1656	29 May 2023	zapp-459	WCS - divide entities and data transfer objects	5b90abc4b8be5dad0f196b62b73bd6909a3ceba2

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		zapp-499	Fixed: User can't join meeting before owner	
5.2.1644	25 May 2023	WCS-3793	Added: Check of accordance between expected and real encoders profile-level-id. Docs: H264 profile-level-id detection	fb2b87e52a37afc514780213fbf4103a07732479
5.2.1643	25 May 2023	zapp-449	Fixed: React - Screen sharing video blink	dcd72b7ec3af87bdd2b8920d8d49650e24f82636
5.2.1642	24 May 2023	WCS-3805	Fixed: Offline mixer: cannot disable room name displaying. Docs: Stream name displaying in mixed multiple record	2b23c9f2355bf2dcd589adaa7f1f39f79d7e67f2
5.2.1641	24 May 2023	WCS-2926	Added: Move working with SDP from MediaSession to a separate entity	959c59dd2fa3a6fbda27b4bfad36de429687b5f3
5.2.1640	24 May 2023	zapp-489	Fixed: Fix search in chat	0baa77ebc48880fe82012b5e90d9bfe4285e0115
5.2.1637	24 May 2023	zapp-444	WCS - add feature for creating bots with audio	c1f26fe0b9ee93e2b856a0d0000607c7349818f4
5.2.1635	19 May 2023	WCS-3777	Added: Set stream label in mixer by REST API. Docs: Mixer REST methods / Setting or changing stream label using REST API	4980821e0ebc3214a2bbbfead831d0c9eaf18093

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5.2.1632	19 May 2023	zapp-429	WCS / SDK - Offer model refactoring	71574ddece743bcadabcd7f7ac22f19ce7b154d2
5.2.1631	16 May 2023	WCS-3765	Fixed: Fix LLHlsSegmenterTest	98a18feb45eb01377700e9978318db7d7f870423
		WCS-3811	Added: FragmentedMp4 support for HLS ABR. Docs: m4s container support	
5.2.1629	15 May 2023	zapp-493	Fixed: WCS - roomExists throws NPE if room hasn't pin	6851f70ab82720f6447dd0776a3fc4a5016dd91
5.2.1628	15 May 2023	WCS-3669	Fixed: SFU: vanilla sfu issues	3143b18ebe46476b347a9f308062b02d00475075
5.2.1627	11 May 2023	zapp-452	Fixed: reply message can't show parent message because doesn't exist in the list of loaded messages	0b40ec9c35531b529592bfd2926cc6146cb82a97
5.2.1626	10 May 2023	WCS-3780	Added: LL HLS: implement m4s container	142b0595d7727f570792dbc309bd20381bd7ba8b
5.2.1623	04 May 2023	WCS-3788	Fixed: Prevent the creation of dead routes in SFU	fa20d91eb519ecd3f33bd69596abd0dd05e9fabe
5.2.1622	04 May 2023	zapp-477	Fixed: React: audio cannot be unmuted by participant if there is no waiting room	e9fd9afa6e61283afe64efead9d4c328b019109d
5.2.1621	03 May 2023	WCS-3751	Fixed: compact_media_port_usage: mixer fails with PortsBusyException	c608742ac8f80d41508980393b00a044c4354685

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5.2.1619	03 May 2023	WCS-3782	Fixed: Payload type in RTMP incoming stream metrics. Docs: Audio codec details displaying	3c723e51d0c186cd205079273a9c455646f2e4e4
5.2.1618	03 May 2023	WCS-3621	Fixed: Injector - Refactoring. Docs: Injection implementation in build 5.2.1618 and newer	e8b98620f60db0a226616ac37caf4e8c0f82a571
5.2.1617	02 May 2023	WCS-3784	Fixed: HLS AB R in CDN: upper resolution in manifest	214746f850df320f5621b834adcb99a1e601f49f
5.2.1616	28 Apr 2023	WCS-3795	Fixed: RTMP push with transcoding: bitrate is not applied for 1080p	fec542757a11bdc923ce635ffbbc73bde42092fa
5.2.1615	28 Apr 2023	zapp-468	WCS/SDK/Redux - selector about enabling waiting room should be actual and meeting should use default settings when creating without pmi	d0b890ecc15087daae72c69b80387d357d7e6111
5.2.1614	28 Apr 2023	zapp-382	WCS/SDK/Redux - Mentions	fb0097dfd3a9dce66d6fced9a9b302b15a1342a1
5.2.1613	20 Apr 2023	WCS-3725	Added: Add dumper for MpegTs	9a29135ea751cd65c8fc222356eb72d73061e210
5.2.1611	19 Apr 2023	WCS-3768	Fixed: HLS AB R, LL - avoid upscaling resolution. Docs: Transcoding to higher resolutions prevention	055e3115e6990ce22800c299491ae59849eb8fe4

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5.2.1610	18 Apr 2023	zapp-384	WCS/SDK/Redux - Chat bookmarks	9fbbcd4cdc679ded6c58017e4a4cafcfb93a3143
5.2.1609	18 Apr 2023	WCS-3773	Fixed: RTSP playback RTP/UDP support. Docs: Interleaved mode support	9b4dd05970076f6806313d804ac5199fa2fa1b45
5.2.1607	16 Apr 2023	zapp-455	Fixed: WCS - should fix SDK/Redux tests for on mongo configuration	6191d6ff9ed91a928990a2dba1f4a0af89527b3
5.2.1606	13 Apr 2023	WCS-3766	Added: HLS ABR: sort qualities in manifest as described in hls_abr_profiles.yml. Docs: Qualities order in HLS ABR manifest	69a3eac0f6604622b4f9091d75cc40e8922f0ee3
5.2.1604	13 Apr 2023	WCS-3713	Fixed: LL HLS/HLS ABR load testing	ff6a4e477afb1f87502afb85b1ef69569b6cb bdf
5.2.1603	13 Apr 2023	WCS-3769	Fixed: hls_list_size is not applied. Docs: Maximum playlist size / Maximum LL HLS playlist size	5557508adfc0fdeff89b8e9ad78137e4bca67558
5.2.1599	12 Apr 2023	WCS-3703	Fixed: SIP session logging issue	a72de30c463ece68911103dfc178800fa37c59a
5.2.1598	12 Apr 2023	WCS-3743	Fixed: MpegTs simultaneous H.265 and H.264 support. Docs: MPEG-TS H265 publishing / mpegts_agent.sdp	8203b7a4c05be0b6463da638693ff24cf4c9d937

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5.2.1597	12 Apr 2023	WCS-3732	Fixed: HLS AB R in CDN: no hls_abr_profiles.yml: IllegalArgumentException	9e3ec9fdc0b1e2f72b35e057f36156c54f22c01f
5.2.1596	11 Apr 2023	WCS-3763	Added: /data/send batch request. Docs: /data/send query / /data/batch_send query	678be8b78bbd2f18df5c282dbe8d7e56d4a03315
5.2.1594	10 Apr 2023	WCS-3700	Fixed: SIP as RTMP call to Bria 5: sync issue	ae66ba67a67b7d6790a1a600ad95ad95b7150e90
5.2.1593	10 Apr 2023	zapp-445	WCS - should define attachment media type when saving	cc740e30e51b8cf9dd8373b610ade0389248698b
5.2.1592	10 Apr 2023	WCS-3715	Added: RTSPS rerverHandler refactor SDP to make it dynamically changeable. Docs: Dynamic codec detection	e706e96d3e919ce33b01167f20e49e76c458fa06
5.2.1590	06 Apr 2023	zapp-385	WCS/SDK/Redux - Chat message attachment display and search	f2d4f264b660ce47d702b8d09bb516ebc8242892
5.2.1589	05 Apr 2023	zapp-421	WCS - optimize method "get ChatMessagesCount"	98d92efa361afa9e53c624c6e916c68a0f910efc
5.2.1586	04 Apr 2023	WCS-3752	Fixed: webcall server set-permissions: command not found	5a937e59263798c20803f40aa0665d541a288a5b
5.2.1585	30 Mar 2023	zapp-397	Fixed: Stabilize Zapp alpha application	0b095c3bc82ca35fb54754153b9b3b31fb046d67

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5.2.1584	28 Mar 2023	WCS-3704	Added: Add H265 RTSP as source support. Docs: H265 publishing via RTSP	ead8d8f6187ea93e8cbdbb8974628911dacc311
5.2.1583	28 Mar 2023	WCS-3687	Fixed: Empty records dir in bin	876cc7003344082151383cf244d2f8244ba0259e
5.2.1582	27 Mar 2023	WCS-3707	Fixed: LLHLS: ABR writers synchronization	e21e196371fbb29684b9284b17cd1adf4e28d966
5.2.1581	24 Mar 2023	zapp-418	Emoji private storage	7ecf95ac59da21c73755578aad1644cf3c89dff6
5.2.1580	23 Mar 2023	zapp-419	WCS/SDK/Redux - add method for get messages count of chat	67fc74dd1f9a855847feef36cf577b988af3ab46
5.2.1579	22 Mar 2023	WCS-3702	Added: Decode H265. Docs: Capturing H265 RTSP stream	85f9cd3f578485c081ec388abc70a4ab025dae5c
5.2.1577	16 Mar 2023	WCS-3106	Added: H265 codec support, SRT publish, RTSP playback. Docs: H265 publishing / Playing H265 without transcoding	684deb657bbda7d74228c358d164a487f840c2be
5.2.1576	14 Mar 2023	zapp-411	Refactoring deleting a message from a chat	2d87e97f98e5274c5723447b24d9c7f808110e56
		zapp-414	WCS - add validation to "edit ChatMessage" method for message body or attachments	

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5.2.1575	10 Mar 2023	WCS-3711	Fixed: LL HLS ABR: Safari issues	0332a7f3bae2f2cfc2b1dbbde3d0f41e35b7d0e
5.2.1574	09 Mar 2023	WCS-3727	Fixed: Video transcoding - no video	7387b79c3dff9c9c9dc4cb0f4761c738c1c9d210
5.2.1573	09 Mar 2023	zapp-350	WCS/SDK/Redux - Add advanced settings into scheduled meetings	5c5598af22cf d10ceb2df3c6377abd7b6c0eb993
5.2.1567	03 Mar 2023	zapp-390	WCS/SDK/Redux/React - reset password	432960e1332e02c8297c396a36b8188552f849a4
5.2.1566	03 Mar 2023	WCS-3721	Fixed: LL HLS: freezes in Safari when stream has a silent audio track	1e2c0a6a6dc7959b290e446302327f70c1a155ea
5.2.1563	01 Mar 2023	WCS-3720	Fixed: activation.sh sets improper permissions on flashphoner.license file	6382f3b5743d71f754d07c36af481b22b290bdc7
5.2.1562	01 Mar 2023	WCS-3716	Fixed: WCS may not start after restarting an instance. Docs: Automatic service restart on failure / Starting with JVM output redirection to a log file	7348e032d81887f32d66ffe864d7215e4700e30b
		WCS-3718	Fixed: IDecodedFrameInterceptor.frameDecoded() method receives a constant stream name	
5.2.1561	24 Feb 2023	zapp-389	WCS/SDK/Redux/React - Sign up (new user registration)	a281fea33a9447b2220f9a15e959dc6c6f85e36f

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5.2.1560	24 Feb 2023	zapp-405	User settings timezone and phone number	47b02ca873ba a1686c539f74 847b4f447ba8 4aab
5.2.1555	10 Feb 2023	WCS-3708	Fixed: RTSP st ream: Failed t o parse H264 bitstream	32ddc829c2c3 33e429cb57f4 b76702f0cca7 61e6
5.2.1554	10 Feb 2023	zapp-392	WCS/SDK - Ca ncel sending a ttachment if it has state uplo aded but mes sage is pendin g other attach ments	03a817a46837 f8732de85dc7 1e633999dffe 7ab
5.2.1547	10 Feb 2023	zapp-320	WCS/SDK/Re dux - Add func tionality to del ete and edit m essages in ch ats and chann els	d855e241a494 51613bd40432 0582d939d2db 56b0
5.2.1546	10 Feb 2023	WCS-3709	Fixed: Files wi th spaces in t heir names br eak permissio ns checking in non-root mod e	9c810647c8a8 8731e674ad00 2e79f23652cb ecb3
5.2.1545	09 Feb 2023	WCS-3698	Fixed: MpegTs Decoder bad p esPackets's p arse, wrong c ount of dataFr ames	bb76cb994e42 4e24d297fa5a bca9ad8229df cd8c
5.2.1543	09 Feb 2023	zapp-363	WCS/SDK/Re dux - Change user account settings	4c65dd449c61 750fba4c565c c036dade95ef db94
5.2.1541	07 Feb 2023	WCS-3676	Fixed: AV gen erator and Rt mpPublisher: add pre-initial ization on serv er start. Docs: SIP as Stream known issues p.2 / SIP as RTMP known issues p.3	a4c9dd22b742 e1010ce5b737 3cea271a9b74 da2a

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5.2.1540	06 Feb 2023	WCS-3692	Fixed: Simultaneous SIP registration: client log folder name	87330d1a053e3a3eaf3b36b31de04d6957c320c9
5.2.1538	30 Jan 2023	WCS-3683	Fixed: Cannot use the same SIP login even without a registration	412d542d425c0b1b27ac9154c47bc8259031af43
5.2.1537	20 Jan 2023	WCS-3682	Fixed: Set correct parameters to run service from systemd. Docs: All the ways to start WCS	681e412d07840af52fae1351dbb056fbc0265bfd
5.2.1536	19 Jan 2023	zapp-285	Fixed: WCS -d deadlock if several users are trying to stop a track	60e42aeada5da676c3b60ab972d89a27a1861e0
5.2.1535	18 Jan 2023	WCS-3675	Added: Inject from VOD. Docs: Injecting a VOD stream from file	9add59aa9cbdb800a13ae9198745cfa5536c450d
5.2.1534	18 Jan 2023	WCS-3663	Fixed: No stream mixing if distributor subgroup enabled	7ab8e4c86fb581645f2703253fada859f8093c13
5.2.1533	18 Jan 2023	zapp-369	Fixed: Server -owner can't start PMI meeting	6f4dcda496091699acc7c9173d417bd518701647
5.2.1530	13 Jan 2023	WCS-3661	Fixed: wcs_sf_u_bridge_enabled: published stream and SFU client in the room	84dd9243a5a73e10c96a213aa468730d7a64e66c
5.2.1529	12 Jan 2023	WCS-3540	Fixed: SIP as Stream with VP8 is not recorded	bd0f082ea46cda81fe6ac9811ef77333cfd7916c

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5.2.1528	12 Jan 2023	WCS-3674	Added: VOD live loop enable/disable for a certain file. Docs: VOD looping on demand	a9ce5afde53b7de60b80d3b9823ca00323af5f39
5.2.1526	12 Jan 2023	zapp-353	Fixed: WCS - Generate permanent ID for scheduled event	7d210b9f3eaa713f63b0f336966eaf8c3ea73d13
5.2.1525	12 Jan 2023	zapp-358	Fixed: SFU: TCP transport support	30d4786a57dedb85fe6e89b821eedcf8c93e910b
5.2.1524	11 Jan 2023	WCS-3571	Fixed: RTMP stream from Larix Broadcaster fails with ArrayIndexOutOfBoundsException	4567ee9c62c9e753d252ce9d095ba07d9ccddc6e
5.2.1523	11 Jan 2023	WCS-3612	Fixed: Offline MP4Mixer: InterruptedException. Docs: Threads count to use for multi-threaded encoding	07f379a34086f4d645e12cea45c4158b98b41ae8
5.2.1522	11 Jan 2023	WCS-3656	Fixed: wcs_sf_u_bridge: StreamEvent client notification issues	822a39b42af7c5fa406af209b7273da19ab63372
5.2.1520	10 Jan 2023	zapp-343	Fixed: WCS - message got empty attachments	113aa2effe2641cb9ed41b4b4bd3fe1b74472a7d
5.2.1519	06 Jan 2023	zapp-345	Added: WCS - MongoDB message queries	3fdc999f2ec83212f96367b8794a0d60d90a8eec
5.2.1518	05 Jan 2023	zapp-317	Added: WCS - Create room on join meeting	a4f53725fce9f2a25bd3e1fb4e79bf6e5d8a8e64

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5.2.1516	05 Jan 2023	zapp-349	Scheduled meeting ID bug	899c246f9fca 849804799c4d 466eb5f0643c 7bc8
5.2.1515	30 Dec 2022	WCS-3670	Fixed: Recorded audio goes forward in MPEG-TS packet loss case	db439b06714d 67a188f038e2 af03d6187c43 a13b
5.2.1514	26 Dec 2022	WCS-3604	Fixed: SIP as stream/RTMP: no video, audio distortion. Docs: SIP as stream known issues p 2 / SIP as RTMP known issues p 3	510afa3c1735 7d983ad8c7a4 c0bca21b10ba 1999
5.2.1512	22 Dec 2022	WCS-3664	Added: Do not clean a custom jar files on server update. Docs: A separate folder for custom mixer Java libraries / A separate folder for custom image interceptor Java libraries / A separate folder for custom audio processing Java libraries	b318b9677a1e 4db5ac59019a d641e13d3eb7 8f57
5.2.1510	16 Dec 2022	zapp-261	Added: WCS - MongoDB support	fc93567f1287 ee34b276d08e 207d470d963e 6950
5.2.1508	12 Dec 2022	zapp-330	Fixed: App - All participants can see that the owner is replying if chat has 'owner only' policy	e6bde0c4a7b8 8ab8f5af6e62 2f4eab4fb5a1 c408

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		zapp-332	Fixed: App - participant that is joined to the meeting sees all messages (with 'owner only' policy either)	
		zapp-336	Fixed: WCS - direct messages don't load after join to the meeting	
5.2.1506	09 Dec 2022	WCS-3646	Fixed: LL HLS: NoSuchElementException	86e9a59289543eb74492d97c8d1f3a664c1febef
5.2.1504	07 Dec 2022	WCS-3648	Added: WebRTC ABR Player example. Docs: Playback in a browser via WebRTC ABR / WebRTC ABR Player	bd6100155f00a0741a4409fb8bead4f6e76d0ca1
5.2.1498	05 Dec 2022	WCS-3468	Added: LL-HLS delta playlist	99cbd3e97ff22a45e503595b18cedd912e8823f3
5.2.1497	05 Dec 2022	WCS-3644	Fixed: addedTOMixing stream event: mixer uri is always null	37c30eed6f49d0eb8d05e0275b77c31f152b8bb7
5.2.1495	01 Dec 2022	WCS-3632	Added: WebRTC ABR support	eabb6667f210846e3ca06c85093c43c87f1394f1
5.2.1494	30 Nov 2022	WCS-3651	Update license agreement text displayed while installing a server instance	59e55c25471d097c51074363ccab8483ee1e1c67
5.2.1493	30 Nov 2022	WCS-3603	Fixed: Stream inject: audio-only to audio-video: audio and video not replaced	94ad5cd9a8222b8ffcbae236c7b421040bfd8a40

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5.2.1491	28 Nov 2022	WCS-3641	Fixed: RTSP stream: Can't extract tracks from response sdp	12ca63fbc55938393d31eab3351382a1045e684c
5.2.1490	24 Nov 2022	WCS-3636	Fixed: MPEG-TS SRT: server crash if publishing fails with NoCommonCodecException	c9d452e795ea145dc2b5091af19ffbb6fb703d8b
5.2.1489	23 Nov 2022	WCS-3631	Fixed: Mixer dynamic properties issues	6ed165ce2712f44a3f0ac31668c5055c4189b589
5.2.1488	23 Nov 2022	zapp-242	React - Schedule a conference, use PMI	20e4fa1e0ef8af4cd1575d4b2751615ff6b2df05
5.2.1487	18 Nov 2022	WCS-3588	Extract SDP filenames to settings. Docs: SDP settings files	9b299d657f05711bb81c63f2ef4f3d6ceeeb4cc5
5.2.1485	18 Nov 2022	WCS-3525	Added: Allowed IPs support for SRT publishing. Docs: Publishers restriction by IP address	d9680f02fc1573b720bc7d1b8f0be4a1b6ea93f9
5.2.1484	17 Nov 2022	WCS-3630	Fixed: Stream transcoder with mixer auto start: no video in transcoder	0cc46969615fc01b1f17d48c3b4d54da5fb9eff3
5.2.1482	15 Nov 2022	WCS-3629	Fixed: TranscoderAgent: spam in client log	9ed5cb2834bcedd9c0dd8d41bf0ec95a18bfa539
5.2.1481	13 Nov 2022	WCS-3538	Fixed: Matroska offlineMixer. Docs: Multiple streams mixing tool	b4ce6fcdbfddb14c75d48e9e565de5bd95bd6442

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5.2.1480	11 Nov 2022	WCS-3592	Added: Change mixer layout on the fly. Docs: Changing mixer parameters on the fly by REST API / Applying a custom layout to an active mixer on the fly	3056453ad1e24d63428d3df66d2136f78904f7f7
		WCS-3628	Fixed: InvocationTargetException in client log when transcoder is started	
5.2.1479	11 Nov 2022	WCS-3553	Fixed: Watermark leak 3	241e7bcec9c44560e2a1eb4e26c4024a797a53ab
5.2.1478	10 Nov 2022	zapp-295	Added: WCS - Refactoring SFU handler chat facilities	39bb8f736e63eab57d50d35982858ad2947faba7
5.2.1475	09 Nov 2022	WCS-3616	Fixed: org.apache.http.NoHttpResponseException: streaming may sporadically fail, RoomApi does not work. Docs: Exceptions handling while sending a REST hook	9ad392d19e90b02fb74b7989ec2c007d26f63cc0
5.2.1474	09 Nov 2022	zapp-296	WCS/SDK/Redux/React - meeting superuser flag	df786a3c1eb191a68263b606fca55ffb572bfcfc
5.2.1473	09 Nov 2022	WCS-3563	Fixed: SFU client: video freezes	0c49fade3c830c319ed75f6481392502b431219f
5.2.1472	08 Nov 2022	WCS-3623	Fixed: RTMP streams in mixer: CME when stopping a stream	5103f8fe3951e4bdeeee3b4dfc6e12a90e04e7bd

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5.2.1471	08 Nov 2022	WCS-3547	Fixed: Transcoder stream: watermark specified in config not in startup request is applied	676b1da5eb7e0a367565c95fe3e8939996b27164
5.2.1470	07 Nov 2022	zapp-292	Fixed: 'New' red line adding for senders after relogin	fe280dfa6ff39e2bc407190c75be1262b05d8adc
5.2.1468	02 Nov 2022	zapp-260	Fixed: New meeting owner reconnect bug	52217f1c91bcf31d7e28bc1c05c18f2c7b1817f4
5.2.1466	28 Oct 2022	WCS-3566	Fixed: SRT agent leak	d00e431de887895576796b78d156de886608eab2
5.2.1463	27 Oct 2022	zapp-287	WCS/SDK/Redux - Meeting should use PMI settings on startup	9798535c360e3a16144ff9ea9ba3a9f542e5572c
5.2.1460	25 Oct 2022	WCS-3613	Fixed: Firefox 105 with Nvidia GPU: keyframes are not assembled	2064c2d5854daba3710e68b507b6e003d3d2863d
5.2.1459	25 Oct 2022	zapp-271	Electron - add deep link handler	22e860077c14bb8d9216c4779c0d927de4048cc6
5.2.1453	21 Oct 2022	zapp-276	WCS/App - add setting 'Chat' to Security Settings	c00a60c817d01c644f542b044b48adce9314f727
5.2.1452	21 Oct 2022	zapp-266	WCS/SDK - Backend should store personal meeting ID (PMI) settings	17549323b9862da8262e9eebbeea05d0cddf7cb4
5.2.1447	20 Oct 2022	WCS-3610	Fixed: RTSP stream: unsync and slide-show	0ba8a3d52237e0689e69b966d4d7376762164415

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5.2.1446	20 Oct 2022	WCS-3605	Fixed: pulled R TMP: lowered fps. Docs: RTMP frame type detection	806a1f3c0b64 b1a4ad2eea05 29f9642f208b b915
5.2.1445	20 Oct 2022	zapp-277	WCS/App - ad d setting 'initi alAudio/Video Muted'	d05139bd19d9 29d5adbc3aa4 504b1218cb67 2dbf
5.2.1444	19 Oct 2022	zapp-273	WCS/SDK/Ap p - add politic s of screen sh aring and add feature to dis able "start sha re"	688d403c16c9 cc06b4c7ea21 36341e81a53a d8cc
5.2.1443	17 Oct 2022	WCS-3602	Fixed: playStr eam NPE: pla yback fails	975b5183e017 c63e42659b4c 1fe2126ea2f6f 4ab
5.2.1440	12 Oct 2022	WCS-3419	Added: Matro ska (mkv) sup port for multi- recorder. Doc s: Multirecorder codecs support / Multirecorder container configuration / Pulling a separate streams from MKV container / Known issues p. 12-15	fc2311996e4d ec7db464ee11 0dc591747a8f 9176
5.2.1439	12 Oct 2022	WCS-3595	Fixed: rtmp_a gent.sdp: audi o/video track issue. Docs: Audio only or video only stream publishing via REST API / Publishing a stream without audio or video using SDP	9661e120c6c5 e1047c2fd489 0e373f39da5e c73b

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5.2.1437	11 Oct 2022	zapp-55	Meeting slice invite link for the meeting	0e2f76457efbf8fdff6f6964e74f24353875178c
5.2.1436	11 Oct 2022	WCS-3589	Fixed: Agent state of RtmpAgent	47f253ddc87e8de9056ac7d18dadd0ba01c7804e
5.2.1434	09 Oct 2022	zapp-267	Fixed: Old owner can rename another participants	eff792275115765515d7bf96d6921a3bf8906794
5.2.1431	05 Oct 2022	WCS-3580	Fixed: Mixer: stream added without video: set_stream_watermark returns 500	dd6f5bee49be6842d17aab92b6c0d593f5dc b3c2
5.2.1430	05 Oct 2022	WCS-3607	Fixed: Offline MP4Mixer: no video in mixed stream	98f62689e4118b3fcdcd0db289408650915c1f58d
5.2.1427	05 Oct 2022	zapp-259	App - add the setting that block participants to renaming themselves	6ef112a05410d0eccaef5f740ff27eade8b22b89
5.2.1426	04 Oct 2022	zapp-254	App - add feature <code>audio/video muted</code> to client	b27836e6dd55902934851f8a19e805a2fdb015f9
5.2.1421	03 Oct 2022	WCS-3600	Fixed: Terminate stream record by REST even when keyframe is not received. Docs: Stream recording known issues p. 11	f6b5e343723730a24d64953d5e3d15abe206470f
5.2.1419	03 Oct 2022	WCS-3601	Fixed: SIP as RTMP: NPEs, ports leak	25db18169191abfad7e1f4fa1e33ce39ad6bc4ed
5.2.1418	29 Sep 2022	zapp-211	Added: WCS/SDK/Redux - Handle RTP activity timeout	108a6c6f8c1bddfb43d815b31cb8c0a25ef8ad0c

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5.2.1416	29 Sep 2022	WCS-3598	Added: REST hooks on stream start/stop recording/multirecording and add/remove to mixer. Docs: REST hook for stream recording / REST hook for multiple stream recording / REST hook for adding stream to mixer or removing it	0c0d869df450246224d2a16aefa43751e730d471
5.2.1413	23 Sep 2022	zapp-251	WCS/App - Meeting lock setting	81d7e33077025bd33cb164546ecd2c10ce10a95c
5.2.1408	23 Sep 2022	WCS-3570	Fixed: MPEG-TS startup when not enough free media ports: ConnectionException with NPE	d98dbcf1da3919c906dc4f5e597892bb8c92c2ad
5.2.1404	22 Sep 2022	zapp-59	Meeting slice rename participant in a meeting	26bf1c21074f83666a401ab84789cca3da9f726a
5.2.1402	22 Sep 2022	zapp-217	Reply message	298dca7f16f7f1be171218e26cbb52db3daddc41
5.2.1399	19 Sep 2022	zapp-250	WCS - Only upcoming calendar events should be returned to client	fe223f393caf6e210d4fd9a0c1f725cbe52e6bd4
5.2.1397	14 Sep 2022	zapp-225	WCS/SDK/Redux - leaveRoom during the join operation	308f5a6df046f585d9acd08b8a580e2c22e365ba

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5.2.1395	13 Sep 2022	WCS-3567	Added: JitterBuffer improvements. Docs: Jitter buffer and frames collection in stream published	e0ad38b2728c59801120269d006d4cc773bfafe2
5.2.1392	13 Sep 2022	WCS-2872	Fixed: flash_handler_publish.sdp application. Docs: flash_handler_publish.sdp / Publishing codecs negotiation	0cc7051c274c154366772e0a7f1e5b7d51d9488f
5.2.1391	13 Sep 2022	WCS-3593	Added: Put WCS build info to server logs	92d28fd59966c6d82bac19a4f7521003b3065553
5.2.1386	12 Sep 2022	WCS-3582	Fixed: Can't terminate streams using name. Docs: Stream filtering by parameters	5c64152e380b94989516baf09512dbefb6b4074c
5.2.1385	12 Sep 2022	WCS-3578	Fixed: Mixer: unmute video: first displays last picture received before muting	e69804e2d2e2bc3df23ae7c7977cd041924ac85a
5.2.1384	12 Sep 2022	zapp-66	Meeting chat selective messages	3ff76db1eea21b7ef70ec2a34e0c69f5b5e0c310
5.2.1383	12 Sep 2022	WCS-3587	Pulled RTMP: ArrayIndexOutOfBoundsException	b26773c0ca55a0bb4fbc1eb708a1c86767bb2c52
5.2.1374	01 Sep 2022	WCS-3579	Fixed: RTMP push: rtmp_transponder_send_metadata: unsync in stat	38b14f45a32440219ee7c48a68a9323999e69c68
5.2.1373	01 Sep 2022	zapp-132	Electron/React - User notifications	fceca7fd2eb0e60a59c0a4582b1ed433c135bcc0

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5.2.1371	31 Aug 2022	zapp-47	User should be a chat member to send messages	00ed53bee6333028e875a0242782e8488013f7da
5.2.1368	31 Aug 2022	zapp-199	WCS, SDK, Redux - Get progress file uploading, loading	097f73be6507cbb108a089b8f6860ec917a050c4
5.2.1366	30 Aug 2022	WCS-3559	Fixed: RTMP republishing to Youtube fails if outgoing buffering is enabled	bb693b0801cbf65bc12ddf64806cc49be9ca8b15
5.2.1360	26 Aug 2022	zapp-200	WCS/SDK/Redux - Cancel upload and load files from server	4764bf07ebe84e93e1e46cd10f4625fc3836268c
5.2.1359	24 Aug 2022	WCS-3564	Fixed: Audio-video stream in mixer: placeholder frame displayed before video is received. Docs: Audio only streams displaying	484bfb4a14da92d8fe50691d12d0cb6232989e47
5.2.1358	24 Aug 2022	WCS-3573	Fixed: Video muted stream in mixer: /mixer/set_stream_watermark returns 200 OK	e75b360d8f077168a0ba7f635f99417264268747
5.2.1357	24 Aug 2022	zapp-214	Added: SDK/Redux - Track creation timestamp	09407b02d777dcd2515799df e8d387911b9ea276
5.2.1355	19 Aug 2022	zapp-193	Fixed: Screen sharing issues	e12166bd71443af547760b00ed3f70111f7c948c
5.2.1354	19 Aug 2022	zapp-64	Server meeting chat to reuse main chat and ditch rtc data channel	124d3ebc5f5680a1603380986d09d8fe0f20b3d3

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5.2.1350	19 Aug 2022	WCS-3550	Added: Adding #EXT-X-DISCONTINUITY tag on fps changing	7f22c94018d4b079b9169eaa b04f2d603606d4ee
5.2.1349	18 Aug 2022	WCS-3544	Added: Dynamic watermark for transcoder and mixer. Docs: Adding and changing stream watermark dynamically to transcoder / Adding and changing stream watermark dynamically to mixer	b3c64ca75f610977a523aa90 b882466aece5c3fb
5.2.1347	17 Aug 2022	zapp-182	WCS - Add support fragmented WS binary frames	c25c6048a892aaa9880d00bb 9fda4e1d5f495be6
5.2.1346	16 Aug 2022	WCS-3536	Rtmp byte-stream parser	761e6c51cd88af02eef578a3 69d1d77ae6e268af
5.2.1345	15 Aug 2022	WCS-3316	Fixed: LL HLS: native HLS player freezes. Docs: Recommended settings for LL HLS playback	0a236d66b3dc17c331c6453a 60a05b8450ad6a2a
		WCS-3561	Fixed: pulled RTMP stream: slideshow	
5.2.1343	12 Aug 2022	WCS-3535	Added: Swagger documentation for REST API. Docs: OpenAPI specification	8c1431912466ef5d45891db5 46d6960acf7d2f76
5.2.1340	11 Aug 2022	WCS-3524	Fixed: OPENH264 decoder: native code errors when stream is published with losses	f775819a638528fee02b5ddf d6497bbdeb66c7d4

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5.2.1338	08 Aug 2022	zapp-192	WCS - ZApp allow only one active connection per user	f75947c2cfa9ec10ef121e321608c35a50573150
5.2.1335	03 Aug 2022	zapp-167	Fixed: WCS - Participant can join to already joined meeting	b3fe1a0cb39629886ac1873279b6bf42813e8874
5.2.1332	03 Aug 2022	zapp-188	Fixed: REST find_rooms internal server error	1b15a601593037d6d8231e0381d10d4892cc60d1
5.2.1330	29 Jul 2022	zapp-118	Fixed: Server NPE on getLeave call	8146c836aa5c9ab0908f05fec54bb385afa8ca1f
5.2.1329	27 Jul 2022	WCS-3521	Fixed: Unsync in pushed as RTPMP	5622199c742991d4d87da2ee8d64d775c6693e8c
5.2.1328	27 Jul 2022	zapp-189	WCS/SDK/Redux/React - server side chat message search	0065b24bc0a2148e02f05704bc85de34ea4b4556
5.2.1324	25 Jul 2022	zapp-131	WCS/SDK/Redux - Partial download of messages	d60b284db5c81fc54d0fe8bb84a8a9ab66161e1a
5.2.1323	21 Jul 2022	WCS-3527	Fixed: multipleRecorder: OfflineMP4Mixer: Streams unsynchronized	5349b826e73af97e12b65be2f7d44f61752b08d1
5.2.1322	19 Jul 2022	WCS-2826	Fixed: Watermark leak 2	e287e8e422b569707d38fd859340232bc294e054
5.2.1321	19 Jul 2022	zapp-173	Fixed: WCS/Redux - unstable test Owners should receive participant's tracks	a2d5b329f6261c14b5a34a95b9789bb228264ff6

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5.2.1319	19 Jul 2022	WCS-3503	Fixed: multipleRecorder: NoSuchElementException when stopped	7107dbe3454192552f50309df425f856fbb39d58
5.2.1318	19 Jul 2022	WCS-3534	Fixed: Rest controllers response issues	65fe72bef7be263de7ebd6936dfdaa2dffaefffa
5.2.1317	19 Jul 2022	WCS-3477	Fixed: offline MixerTool: check for available disk space. Docs: Minimal available disk space checking for multiple recordings mixing	9d9169cdfef7f374597adda45a9eafacda493b30c
5.2.1314	19 Jul 2022	WCS-3498	Added: MPEG-TS via UDP: publisher identification. Docs: MPEG-TS publishers restriction by IP address	43979642db40393e254715599d8e4dd0d8f25a38
5.2.1313	18 Jul 2022	zapp-160	WCS/SDK/Redux/React - fast and dirty video inside the meeting	89fe531fdfe60afc9944493a96c23d2489d2ffe7
5.2.1311	15 Jul 2022	WCS-3539	Added: Detect a lagging RTMP streams and don't bufferize them. Docs: Stop stream buffering if stream delay grows	7a1c6323ee1f0af89ae1f303329ce8582e3766c5
5.2.1310	14 Jul 2022	zapp-168	Tool to test grid	4aa0371da55b85cac2df0cb6af305e3d3d7e33aa
5.2.1306	13 Jul 2022	WCS-3529	Fixed: One media port remains occupied after server startup	23c2cc3e8b4b2b057b3e54d8b4bef4ed5629d22d

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5.2.1299	13 Jul 2022	WCS-3522	Fixed: MPEG-TS via SRT: stream on server does not stop if client stopped ffmpeg. Docs: Renewing the stream publishing after interruption	ed22deb4559af5555fb69133ff60a2548af26796
5.2.1279	24 Jun 2022	zapp-149	Fixed: WCS - test "Should move participant to waiting room" fails in single mode	9f5cd92f1fcc2342c5b83378436cd53c941f0ad5
5.2.1277	23 Jun 2022	zapp-148	Fixed: WCS - test "Owner should receive participant's tracks" fails in single mode	8109f6a608d0cbdf4f4ae388bbc907f7d0d18997
5.2.1264	21 Jun 2022	WCS-3516	Fixed: Quality metric is always in UNKNOWN state	3e1da36718a450742a10468213a71cd538cf4c16
5.2.1261	17 Jun 2022	zapp-145	Fixed: WCS/SDK - Thread goes into waiting when two users disconnect at the same time	0f006ebe9b099ac3fcf021af14bce2ee3170d39d
5.2.1259	16 Jun 2022	WCS-3523	Fixed: AdaptiveBuffer - avoid jumping between HOLD and OVERFLOW states	5fd41decbc56e2a5a281a4152f26cc1fef72c255
5.2.1257	16 Jun 2022	WCS-3520	Fixed: Incoming frames gap metric. Docs: Incoming stream statistics	388c1b0dec31af96fec6f861a1ca81fbeb72eae
5.2.1256	15 Jun 2022	zapp-146	Added: WCS/SDK/Redux - roomExists should check PIN as well	d071c606e4905cbb9c7e7bc43ef87ed22ec5a44d

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5.2.1255	15 Jun 2022	WCS-3513	Added: Command to switch WCS to root mode and back again. Docs: Switching launch mode / Internal command to change file descriptors limit	ece5564598b9e466d507c8dfed5a0556e18eafe7
5.2.1254	15 Jun 2022	zapp-144	Fixed: WCS - duplication of the message about changing participant's role in the room	82acfcecf535b044965b6860f0937721c60c33fb
5.2.1253	15 Jun 2022	WCS-3401	Added: MPEG-TS over SRT publishing. Docs: MPEG-TS RTP stream publishing / REST API methods / REST API examples	8f43c4e450892148db1ab2fbeb9f830d6dc46765
5.2.1252	14 Jun 2022	WCS-3509	Fixed: LogMetrics collection: CPU consumption. Docs: Logging statistics	25c1bc38cc24050eb4e2e318a97d979732987d2b
5.2.1249	14 Jun 2022	WCS-3495	Fixed: Minimal available disk space checker refactoring	aabaaeb4405ebd70e6c5030f425ca626b0275d4
5.2.1248	13 Jun 2022	WCS-3506	Fixed: Audio resampler occupied after server startup	dfb3285ee93144bd30db94f09a0ba06d59b57d91
5.2.1247	13 Jun 2022	WCS-3228	Added: Move statuses like SNAPSHOT_COMPLETE to stream events. Docs: Stream Snapshot example / Player example	b494ad47e6f973ea4f256d4c1e5e7e00c13659aa

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5.2.1246	10 Jun 2022	WCS-3478	Fixed: Push as RTMP: IndexOutOfBounds exceptions	e80a9ef554cf87006d818ad5231d49e5b602ac20
5.2.1244	08 Jun 2022	WCS-3515	Added: Secure websocket support for stream metrics interface	a99979dcf34c0520e72ab35b822aea8b0e0de059
5.2.1242	06 Jun 2022	zapp-124	Fixed: WCS/SDK/Redux - endMeeting state is not refreshed after a meeting ends up	4c8f363983ba8d6b142ca17dfb94a4ec8620960e
5.2.1241	03 Jun 2022	WCS-3466	Websocket monitoring /streams	11fd985865ea7f63c53b8b0759a18a3b1bd938f
5.2.1237	03 Jun 2022	zapp-129	WCS/SDK - Send cause error message on join meeting with waiting room	45eb442459d0bea683398d05a63f87a62e1206f3
5.2.1236	02 Jun 2022	WCS-3502	Fixed: Recording Failed with NPE. Docs: Recording stopping on errors / Stack trace logging	f4bff151d1fd6f2aab0df9ab5063b8ae36ec7aaa
5.2.1235	02 Jun 2022	WCS-3453	Fixed: Stream inject: transcoding when no media from injected stream. Docs: Stream inject configuration	a4e9a7ed92dfe050fe17671de7297a602143c818
5.2.1234	02 Jun 2022	zapp-121	Fixed: WCS/SDK - Relogin chat removing messages	80726fb0edafd1fa07e04c72a6ac38e970e926f1
5.2.1233	01 Jun 2022	WCS-3487	Fixed: Freezing video after a audio-only stream injection to audio-video	58e845da0dd64ebab068e5b01639a6c5ee05303f

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5.2.1232	31 May 2022	WCS-2566	Fixed: DTLS settings inside CDN. Docs: DTLS support for WebRTC between CDN servers	cbc4bc0e11d2acd7d492723dea069f21bdd4159c
5.2.1228	27 May 2022	WCS-3494	Fixed: MPEG-TS custom SDP: only first description is applied	5bbf9774cbcd560d9ab7b48ae261ed944e0dde42
5.2.1227	26 May 2022	WCS-3460	Fixed: RuntimeException when WebM recording is stopped	75f266a068b98f88a5a9405ee62961ec04390696
5.2.1226	24 May 2022	WCS-3496	Fixed: WebM creation_time bug	86ba169205354a663d9b15d6e580d38779ee5ac9
5.2.1225	24 May 2022	WCS-3187	Fixed: TCP transport and RTP bundle: CDN: playback of video-only stream per profile fails	d4eadf2fb925d300ce8b8e238d614e109398d5b8
5.2.1224	24 May 2022	WCS-3404	Fixed: Custom mixer layout with watermark for video: watermark blinking	c59424a303b98262cfb0dc3b6057664ecf318da6
5.2.1222	23 May 2022	WCS-3131	Fixed: REST API query to reset all CDN connections. Docs: CDN connection reset using REST API / REST API methods / REST API examples	d08e866051de5f9d14dee7164fd37f434d2067d4
5.2.1221	23 May 2022	zapp-102	Redux - add message attachment types	4cfeba48717717a8839a2946bea55a0f68dfa85f

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5.2.1220	23 May 2022	zapp-119	WCS/SDK - roomAvailable() should return correct string if failed	b041be361fd0aa3f54c06cea4e70286d1bd47180
5.2.1219	19 May 2022	WCS-3482	Fixed: rest-api/stream/find with empty body returns 500	2fe622f97a9132623caefc33607bd8788c1349e
5.2.1218	19 May 2022	zapp-116	WCS/SDK/Redux - fast track meeting alterations	bbb0018e369be034df82427a3212842a63cfb281
5.2.1217	19 May 2022	zapp-117	Fixed: NPE on incorrect nickname authentication	e8aa1d4fc2c6939d4b14b21702d079ddb2a8cbef
5.2.1214	18 May 2022	WCS-3480	Fixed: MPEG-TS as HLS: audio quality. Docs: mpegts_agent.sdp file	1ef5652e79d81b874f2c7f40b65e3f4a5c068fb5
5.2.1211	17 May 2022	WCS-3415	Fixed: offline mixing: H264FormatException and IndexOutOfBoundsException	95cd520ca78430f3c9ccf216522c2f232398b693
5.2.1210	17 May 2022	WCS-2956	Added: Log messages statistics. Docs: Logging statistics	c998d2d95b3fd086af8c1510c670a3f821976897
5.2.1209	17 May 2022	WCS-2726	Fixed: Incomplete recording in case space left on device was less than the recording size. Docs: Minimal available disk space checking	6c0010c5abec66038e618bbe20ca01e36b95ccb7

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5.2.1204	13 May 2022	WCS-3396	Fixed: Custom watermark or background: Base picture result is null. Docs: Watermarking known issues p.1 / Mixer known issues p.5	fbba078d8e41881a268768cc78fa1866827d7995
5.2.1203	13 May 2022	WCS-3099	Fixed: Video encoding in audio only mixer	d3cbad55a52516b9ecb33b350e045f7bfd77b2c6
5.2.1202	13 May 2022	WCS-3486	Fixed: MSE playback does not work	3987a13774927e4ac9030ce0d107dec051415809
5.2.1201	13 May 2022	WCS-3481	Fixed: Zombie SIP session after server starts	a2ee93ef1fdc55859fcb17f44a9a926987ec84e
5.2.1200	12 May 2022	WCS-3484	Fixed: No Failed notification for encoding group	8a16f02d1e11e0f86f5f4e3d4199c2ed37556276
5.2.1199	12 May 2022	zapp-111	WCS/SDK/Redux - Channel external users property	63bc24ed6f8ff295132fde91e8b2c72768086109
5.2.1197	12 May 2022	zapp-112	WCS/SDK/Redux - load user meetings	b347cbe547138d9985977967f4707faa2fbb1e02
5.2.1196	11 May 2022	zapp-109	WCS/SDK/Redux - Create meeting based on calendar event	5f15ea276990266dc3191d067529e13fe788b2d5

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5.2.1193	04 May 2022	WCS-1605	Added: MPEG-TS publishing implementation. Docs: MPEG-TS RTP stream publishing via UDP / REST API methods / REST API returned objects / REST API examples	50326a61e8a7bbc7447c2b7f2dcdb6b1e819aef8
5.2.1190	02 May 2022	WCS-3472	Added: single MKV writer, WEBM writer refactoring. Docs: MP4, WebM, MKV containers support / Recording to MPEG-TS container	f83d30a0054ee0be216d1a5cad2fd4f23d1681a
5.2.1188	29 Apr 2022	zapp-56	Meeting slice custom nickname for the meeting	a132f792da32dd4bad25071bcf1676d2ebac8647
5.2.1186	28 Apr 2022	zapp-101	WCS/SDK/Redux - add ability to change channel's type, add bulk channel update	1f182ed9ba7f7d9d1452107b25f12b5404da04b7
5.2.1185	27 Apr 2022	zapp-57	Pinless meeting	420abaf9ffbc254f67167462ac06934aabf29b7c
5.2.1181	22 Apr 2022	WCS-3307	Fixed: LL-HLS add preloader support. Docs: Low Latency HLS support	22ea68e9174459e055b25a3a511152b5446e782b
5.2.1178	22 Apr 2022	WCS-3469	Fixed: 'webcallserver update' command tries to update even if latest build is installed	30f94e387f8b330697ace3338d5502bb71164d11

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5.2.1174	20 Apr 2022	zapp-80	WCS/SDK/Redux - invite contact using email address	d1de5239e24048a1b918831d51b1a9e4f3dd5bbb
5.2.1172	20 Apr 2022	WCS-3464	Fixed: Video/audio decoder in mixer	7a88d769cda545991f43897ff74c42535b82cdb5
5.2.1170	19 Apr 2022	WCS-3471	Fixed: Multirecorder and S3 VOD playback regression	d9e2d4cc216cbb19be5844521c0816b173e9feb8
5.2.1168	19 Apr 2022	zapp-44	Added: Websocket binary data transfer	f68b32b2ca2dd37ca2422de3c5aa1deb83dec4d3
5.2.1167	18 Apr 2022	zapp-77	Contacts slice add contact to favourite	9498107081d6742d6baee27d1f494fbd07ac5178
5.2.1165	14 Apr 2022	WCS-3465	Fixed: Recording MP4 files playback issue in Chrome 100	c8fde39f1f6647be8d3471ba45a96199b3e63731
5.2.1164	12 Apr 2022	WCS-3420	Added: iOS SDK: CallKit usage example. Docs: iOS Call Kit Demo Swift	0c3a70d2e1373d2ea34e59b51c5fa6589facb8a9
5.2.1163	11 Apr 2022	WCS-3434	Fixed: Two media ports remain busy when SIP call fails because there was not enough ports	f69b31841f42b5f9a84d26019a2defc819232d3a
5.2.1162	05 Apr 2022	WCS-3458	Fixed: Server start JDK 11 option error	1f782af1e3f8c26cc4dff6193968369317f1f560
		WCS-3459	Fixed: Server uninstall user delete error	

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5.2.1161	04 Apr 2022	WCS-3455	Fixed: StreamingMediaClient may have the wrong number of subscribers	5ef3403b34164e0014a105b7e21ca1bad3579fae
5.2.1159	01 Apr 2022	WCS-3319	Fixed: Stream injection: audio-only to audio with video: encoder may be not released	41970d1cad58fc923a4c17841f324e60c18f2cdd
5.2.1158	31 Mar 2022	WCS-3452	Fixed: Stream inject: video-only to audio-video: unsync in stream record after inject terminate	abfcf129df8f3f90ee9ce050045c48a27a5ce494
5.2.1156	30 Mar 2022	WCS-3454	Fixed: Relative paths to a files in flashphoner.properties file	a9afc8216d80f784be5bf1fa2af7993f0411be30
5.2.1154	29 Mar 2022	WCS-3097	Added: Installation script refactoring	d5270a8ac7d369b9939bf03d36e49cd1c9afe2e6
5.2.1153	28 Mar 2022	WCS-3447	Fixed: Remove netty 4 sources from WCS source tree	a374cd0aa915024fc6caa1af63cd5c05e5202311
5.2.1152	28 Mar 2022	zapp-43	Add PMI implementation	8dcfcc9b6e14dba5fe9b1d9df0d3789752042d8a
5.2.1151	25 Mar 2022	WCS-3439	Fixed: Remove excessive sleep in Agent class	79115db19701704f18c4ea27e5a6a80d9561862e
5.2.1149	25 Mar 2022	WCS-3438	Fixed: sip_record_stream enabled: SoftphoneException: Can not call	e13fd622ed507dfb3b1eadc4d34b9135d9dceaf2
5.2.1148	24 Mar 2022	WCS-3421	Fixed: Crash on startup if decoder buffer pool is enabled	dd39974000775ba85aca65cfdbb96c075ae59fc1

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5.2.1147	23 Mar 2022	WCS-3424	Fixed: SFU client: JsonParseException after source deletion	fa7246e283765aebd1c5611011c607ae82a2d8fb
5.2.1146	17 Mar 2022	zapp-26	Meeting slice	f2755a6acade6d97dc2c92647ada0de3d1ccdf08
5.2.1145	15 Mar 2022	zapp-37	Finishing off chatSlice	6777e899a13a445831bb30cd043fad6554fae11f
5.2.1143	15 Mar 2022	WCS-3446	Fixed: Update procedure should fail if new build archive is broken	aeaba07e25e76c1d1c8598b9736cf15c99de3d97
5.2.1142	10 Mar 2022	WCS-3305	Added: LL-HLS code refactoring	950a341f40b23443228ecd8cfe42160f21e8a24d
5.2.1141	07 Mar 2022	WCS-3407	Fixed: Possible regression - leaked session in /connection/find_all	9626ca24ed3eeaa22df7afcc369077b99da304c7
5.2.1140	24 Feb 2022	WCS-3442	Fixed: SRT does not work in CDN in obfuscated builds	7ce4ffa8483526ce9bd4c94fe80ab0247659e3d5
5.2.1137	21 Feb 2022	zapp-13	Added: Chat	eac7ffac504effae54f602f17d81aa6f5fc4b927
5.2.1133	10 Feb 2022	WCS-3433	Fixed: Properly detect full previous installation folder name when updating/uninstalling WCS	f7edd4d45bc4737e8ece16231b3eee625984e327
5.2.1131	02 Feb 2022	zapp-15	Error handling	a45c6ffe15707934359c06e2c4448f1345f66597

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5.2.1129	01 Feb 2022	WCS-3427	Fixed: JDK 17 license activation issue. Docs: JDK 17 installation / JDK 17 options	8fc9f12474d67014c444b57b793f7e6ad0d34908
5.2.1127	21 Jan 2022	zapp-10	Added: Meeting cards	b10c0ecfcdade235042cb5f7f20ea0c6372cb9db
5.2.1126	19 Jan 2022	WCS-3418	Fixed: RTSP stream failed to capture	5da279df4dbb0aa59ec364b6ff2eae760a82faa8
5.2.1123	13 Jan 2022	WCS-3298	Fixed: Multiple recording callback. Docs: Multiple recording data callback	34e2e8788324c9d3c0e48703572bc18f2f4f0f36
5.2.1122	13 Jan 2022	WCS-3391	Fixed: multipleRecorder: no audio or unsync	015eaaa7cad449ade1359eca360a835cf9666018
5.2.1121	12 Jan 2022	WCS-1839	Fixed: No audio and video in auto started push as RTMP of WebRTC stream	2e1584e02f95398bfbcb7b80725825e609e4ddaec
5.2.1120	12 Jan 2022	WCS-2984	Fixed: Stream record parameter in find results remains false after record stop-start	cce454c01f1f3f27eae92c6907fc44770d44fdde
5.2.1119	11 Jan 2022	zapp-2	Integrate Sign In form with SFU SDK	c660f36144145e7b932e5b6e03dbf0b00e32a517
5.2.1116	29 Dec 2021	WCS-3351	Added: Snapshot response timeout setting. Docs: Snapshot taking configuration	adbbb6eaefdf5b8ba8c01d10ec051cd431c70800

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5.2.1115	20 Dec 2021	WCS-3406	Fixed: High de coding load - stat error	619fb17fd473cb9d516674f9a96f5155ec11b2
5.2.1114	20 Dec 2021	WCS-3382	Fixed: Win10, Chrome 95: old hardware publishing issue. Docs: Streaming Auto Restore	61cf7706b84ed583a7fe080b0a2d25c70e2e845c
5.2.1111	16 Dec 2021	WCS-2813	Fixed: RTMP publishing from Wirecast issue	b313cec69ee35b6b2293dbda41d9443505d79c63
5.2.1110	13 Dec 2021	WCS-2600	Added: push auto start for RTMP stream. Docs: Automatic republishing to a specified RTMP server	6dfb23a3952bf4f2a4835eebec40dd30205a0399
5.2.1109	08 Dec 2021	WCS-3399	Fixed: STUN deadlock	509daafa3458381aa8ee6af69d92beffae4bef6c
5.2.1106	07 Dec 2021	WCS-3402	Fixed: CPU hog thread	8e4a6e7f759440b1bdd66bd28f3d177981b5e4a7
5.2.1105	02 Dec 2021	WCS-3374	Fixed: Unsync in first record after WCS startup. Docs: Stream recording known issues p. 8	3d8873b1de839fce1c37d77a3647c418e63d5cef
5.2.1103	02 Dec 2021	WCS-2680	Added: Secure Reliable Transport (SRT) implementation. Docs: Choosing a protocol to transfer media data within CDN	bcc80f119f5d2ab4bfc3ceb4099accece398bcfa

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5.2.1095	29 Nov 2021	WCS-3388	Fixed: RTSP stream: Failed to convert to rbsp	cfddfa73a0fcd9df694a2eb2b1049ce8579a9e56
5.2.1094	26 Nov 2021	WCS-3398	Added: Mixer custom layout: row heights setting in rows. Docs: Stream picture height	b8568abc4bd7bbf614fc7e97be2674d6db897e91
5.2.1093	25 Nov 2021	WCS-3397	Fixed: mixer_layout_tool: Decoder result leaked	c8c68e512792789afec7bf93eb2d5ba8ef962901
5.2.1092	23 Nov 2021	WCS-3389	Fixed: Custom mixer layout: stream names not displayed	688444b6673f282487c08f4031f7129f9535d1ff
5.2.1091	23 Nov 2021	WCS-3387	Added: Custom mixer desktop layout. Docs: Screen sharing description for a certain number of participants	b45453cb6ba0210ff1b32dda b40502ec067ece02
5.2.1090	18 Nov 2021	WCS-3306	Added: LL-HLS add insecure connection support (http)	6722121dbd53fe841e31cbb66031c3d215262508
5.2.1089	18 Nov 2021	WCS-3248	Added: Offline Mixer threads. Docs: Multithreaded encoding while mixing multiple stream recordings	665f75356080d9394e1e1d12ec31cf35661d52b7
5.2.1088	18 Nov 2021	WCS-3338	Fixed: pulled RTP: record parameter in find results remains false when recording	214a2029099a46f04acf07c6c25bcd43a75548d1

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		WCS-3347	Added: Separate folder to store multiple recordings. Docs: Multiple streams recording folder	
5.2.1087	18 Nov 2021	WCS-3361	Fixed: SIP connect with auth token and receive a call. Docs: Connection to an existing session	ca049d066693114b3e93e8adf75ee9ff46c8339b
5.2.1086	16 Nov 2021	WCS-1163	Fixed: RTSP stream: Socket Exception: Protocol family unavailable	c9a2347864e7ac84ce0b5722f10f8490e45c62c0
5.2.1085	15 Nov 2021	WCS-3385	Fixed: Can't publish video only or audio only stream with RTP bundles enabled	147ecca9a802490e2a44cd38a74286884012f6fa
5.2.1084	12 Nov 2021	WCS-3376	Fixed: Add configurable timeout for health checking on server startup. Docs: Automatic WCS health checking after launch	ba701809833b620b0ec65c9d1c6fb51a0c113375
5.2.1083	11 Nov 2021	WCS-3383	Fixed: SFU Client: Failed to send or receive message	78e92e42c2c7484b51947dd4da61fc3ac7921eeb
5.2.1082	10 Nov 2021	WCS-3365	ZClient waiting room functions	1ba06fac90dd4ff4ece07cc3bb6f83d85e926f4d
5.2.1081	10 Nov 2021	WCS-3345	Added: Setting to disable RTMP server. Docs: Disabling RTMP playback	84c58a17fe11db8bbca5d99c39a18e3fe6f92a6d

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5.2.1080	09 Nov 2021	WCS-3371	Fixed: SFU Client does not work with obfuscated WCS build	791a61f6afbb6683d122660d6690390bd8ebf29f
5.2.1079	09 Nov 2021	WCS-3324	Fixed: Mixer: CropNoPaddingGridLayout issues. Docs: Mixer captions location	f0c64ca246168e31c232b7f9c70ca3431a4a1feb
5.2.1077	08 Nov 2021	WCS-3317	Fixed: LL HLS: logger excessive warnings	8cc855d09dcfbb9c497c108008433bd3dc4f9698
5.2.1076	08 Nov 2021	WCS-3380	Fixed: Mixer custom layout issues	ef88c2c1d74084367fa6ee1c2da2dd69a2595d07
5.2.1075	08 Nov 2021	WCS-3375	Fixed: Mixer recording: NPE when H264 codec is excluded for streaming. Docs: Mixer output stream video codec management	dfa2d65414c75b22f2a60f0faf90c68c7cb8caca
5.2.1074	02 Nov 2021	WCS-3377	Fixed: Stream orientation is not supported at player side when stream is published from iOS 15. Docs: Known issues p. 17	6ab59ad0c6cae8dfea0224f0ed6bd240a4a0f7af
5.2.1072	01 Nov 2021	WCS-3373	Fixed: WebRTC playback doesn't work if string was passed as custom parameter for the session	96b7ebdccbd453585a128a6712565fb3203d8a64
5.2.1071	29 Oct 2021	WCS-3367	Fixed: SFU: Screen stream published in a number of qualities is not available as regular WCS stream	0335a8985c422eacdd196908b2a08c14d6502ebb

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5.2.1070	26 Oct 2021	WCS-3366	Fixed: ZClient regressions after SFU sdk beta rollout	c3e6ad273850518995bb17ee915353d418e48770
5.2.1069	25 Oct 2021	WCS-3358	Fixed: RTMP pulling: credentials are cut by questionnaire. Docs: Authentication on a source server	82782086660bee9cdd1cb2b3bba2fabff5ae473
5.2.1068	25 Oct 2021	WCS-3161	Added: SFU streams to be available as WCS regular streams. Docs: SFU streams availability as WCS streams	dcbc8d4dde4374acc9f28dfa1ba4628352db02fe
5.2.1065	22 Oct 2021	WCS-3352	Fixed: Mixer custom layout: watermark with relative file path is not applied to video tag	eaf25efccd1e7b0f6c0d6da09f24afbb5fc69169
5.2.1064	21 Oct 2021	WCS-3344	Added: Alpha-channels for CustomWatermark. Docs: Watermark picture mixing with alpha channels support	52f0c69c5a109623d861ee03eaff62bae49e8f8b
5.2.1059	20 Oct 2021	WCS-3355	Fixed: Mixer custom layout: JDK 12: Error parsing .mix files	916edc7f131a0170b291f29102cb41c8ad34d9a9
5.2.1057	13 Oct 2021	WCS-3353	Fixed: Mixer custom layout: move XSD schema to Java package. Docs: Layout description file format	1a7215bb55a306b426cf9a64b5464085b41407ed

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5.2.1056	13 Oct 2021	WCS-3333	Added: SFU functions: public beta. Docs: SFU functions with Simulcast / SFU SDK	6e071267eaacdea3d5c7faddfe2e8120cc3a626e
5.2.1055	12 Oct 2021	WCS-3328	Fixed: MultipleRecorder: exceptions on terminate	3b34d4cea55538d8313184a99965f6dfb3ede4f3
5.2.1054	11 Oct 2021	WCS-3348	Fixed: Mixer layout tool: watermark issues	18a3c07715f1db292dc9272c481084ebd7ec5587
5.2.1053	08 Oct 2021	WCS-3343	Fixed: Mixer layout tool: aspect issue. Docs: Custom layout displaying tool	f986851101ffdc354daef3c09e583d0dc528a0053
5.2.1052	07 Oct 2021	WCS-3302	Fixed: Mixer custom layout: picture size issues. Docs: Stream picture width / Placing stream pictures randomly without strict size limiting	1c2dabde50d64f3d33ebb53c66c7a7f8cb780020
5.2.1051	06 Oct 2021	WCS-3326	Added: Mixer: add watermark to mixer or separate stream picture using custom layout. Docs: Mixer or participant stream watermarking	63abd9764e683845919d2627194b13ab7c7dd228
5.2.1050	29 Sep 2021	WCS-3334	Fixed: Exception while closing writer	f4d33e913d068b99ee89307994bc9449bffc96e9

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5.2.1049	28 Sep 2021	WCS-3329	Added: Multirecorder: get tracks info from the recording file. Docs: Getting tracks information from multiple recording file	bef756a1105c7adca8b3fb39a9a868226fa8b5bb
5.2.1048	28 Sep 2021	WCS-3253	Fixed: multipleRecorder: audio glitch when removed stream is re-added	05ab923698b3461e63703c7fdb9c2e8221adae04
5.2.1047	28 Sep 2021	WCS-3313	Fixed: RoomApi: second publish failed. Docs: Room finalizing	c0f8ad41fb31c634a26febf2e09e750145b6f06c
5.2.1046	28 Sep 2021	WCS-3235	Fixed: Audio codec not released when transcoding stopped	6e49710855e51d7b203fd308e034a2fa91e354a0
5.2.1045	28 Sep 2021	WCS-3271	Fixed: RTSP: Failed to convert rtsp to rbsp	78d2888c70e840aec30f67f926f56436aedca3ae
5.2.1044	27 Sep 2021	WCS-3322	Fixed: Latest Docker image does not start	460253c15fa8344f0382262d6cb82b3742dbc056
5.2.1043	23 Sep 2021	WCS-3323	Added: RTMP transponder: bitrate settings. Docs: /push/startup parameters / Stream transcoding while republishing	1bff32fd93fb1f2edefb7783c6936f38497461ac
5.2.1040	20 Sep 2021	WCS-3331	Fixed: multipleRecorder uses record_dir instead of record_tmp_dir	06154de91f7ffddeffdb6d8ccf1eaa7ab5704a37

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5.2.1038	20 Sep 2021	WCS-3320	Fixed: Stream recording state is not passed in /unPublishStream hook	02602daeb79d369e64e6962493b7a0305a6a2e61
5.2.1037	15 Sep 2021	WCS-3311	Fixed: Offline MP4Mixer: mixed recording file is placed to default records folder	a678a7846a8ceaec10c5d460ed9292fd1a543da2
5.2.1036	13 Sep 2021	WCS-2738	Added: Custom parameters sending to backend on /unPublishStream, /stopStream and /ConnectionStatusEvent with "DISCONNECTED" status. Docs: The list of methods and their parameters	05cd5e436be3b808468bcc4514e9fee51989f9f0
5.2.1035	13 Sep 2021	WCS-3270	Added: Mixer layout preview tool. Docs: Custom layout displaying tool	a65ffa22b0754dc0dbf74780e17ccd5cb161bb88
5.2.1032	07 Sep 2021	WCS-3314	Fixed: Publishing VP8 from Firefox: Chrome playback issues	bfac3e72aa2c356e593bdb2f1160f1e82b61bc5c
5.2.1031	26 Aug 2021	WCS-3243	Fixed: Stream injection: audio-only to audio with video: video injector NPE	aa61467f4f8b95d229f3faaa04f6c6e8d43c388d
5.2.1030	26 Aug 2021	WCS-3294	Fixed: Mixer: participant with video first added as audio-only	034731f4454bad125fcce2fcf15b3629df2cbc01
		WCS-3300	Fixed: Mixer load test: AgentNotFoundException	

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5.2.1023	25 Aug 2021	WCS-3299	Fixed: Reduce offline_mixer_tool.sh output for production use. Docs: Multiple recording file handling script	a98e1639a5a95a4d9a2925ce5e275ae8257e8b9e
5.2.1022	19 Aug 2021	WCS-3255	Fixed: multipleRecorder: name not displayed in find_all results. Docs: Multiple stream recording to one file with subsequent mixing / REST API	de64fe5ba1af8064f820a3293993e00df7929ea6
5.2.1020	18 Aug 2021	WCS-3281	Fixed: Mixer desktop layout: stream pictures align	81007f80ef652bf71636922bebf2307451d811f1
5.2.1016	16 Aug 2021	WCS-3292	Fixed: Mixer load test does not work	6bb06d489a56c364c580a82213906d0ec06a8d9d
5.2.1015	16 Aug 2021	WCS-3256	Fixed: 'webrtc server update' issue	3d9a04f2800ee8c5c7515ef1053e1162d5b58be4
5.2.1014	12 Aug 2021	WCS-3289	Fixed: multipleRecorder doesn't record audio-only vod-live	361a04d4adc9ce78c16915124357629d74ffdbd7
		WCS-3291	Fixed: Mixer: audio-only font size used for participant with video	
5.2.1013	12 Aug 2021	WCS-3252	Fixed: Mixer closed due to error when a stream with AAC 11025 Hz is added	9e8085bcc7d13b39d16dd7a8220ef54dd74a5738

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5.2.1012	12 Aug 2021	WCS-3218	Added: Multiple recording example based on RoomApp. Docs: Room multiple streams recording to one file with subsequent mixing / Multiple stream recording to one file with subsequent mixing / REST API	0a81505ca118903026018ad033ed60f5a75809ea
5.2.1011	12 Aug 2021	WCS-3250	Fixed: MP4Cutter can't find file in non default records directory	aceabe2a67ce5b78b4f0faa6a80425402875ce85
		WCS-3266	Fixed: Incoming mixer stream mute event: stream name is not available for output stream subscriber on first connection. Docs: Mixer incoming streams status detection while connecting to a mixer outgoing stream	
5.2.1010	06 Aug 2021	WCS-3277	Fixed: ACL adding to stream with transponder: 500 Internal Server Error	c4a51e2ffaf15ba1dc9afc577948e970c6344129

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5.2.1009	04 Aug 2021	WCS-2988	Added: Mixer custom meta layouts. Docs: Custom mixer layout configuration with a special markup language / Mixer configuration while creating the instance using REST API	de91359a642a5bf70fadb6d515255a037421def8
5.2.1008	04 Aug 2021	WCS-2399	Added: Custom REST hook application to handle /playHLS and /playRTSP. Docs: Custom backend application usage for HLS playback authentication / Custom access key and backend application usage for RTSP playback authentication / Passing a key to play stream via RTSP	0f625219c7325777d7bb42c6c0e6ff692711b290
5.2.1002	30 Jul 2021	WCS-3268	Fixed: RTSP Digest Authorization issue with double WWW-Authentication header. Docs: RTSP-interleaved stream capture from dump file	e7e29fac545b2abdaf938ead5e0260a94110587
5.2.1000	29 Jul 2021	WCS-3026	Fixed: /push/startup returns 409 for mistyped RTMP URL. Docs: REST-methods and response statuses / API methods	c27a0c44af7cf07d97c85a50ccab6677d33ea1da

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5.2.999	28 Jul 2021	WCS-3261	Fixed: CDN ACL: subscriber is not disconnected when ACL key is removed	9e42f384017b824bf17ecad2e401f643f38869f3
5.2.998	26 Jul 2021	WCS-3247	Added: Offline Mixer refactoring	6011b0f1bbc65181395f26cb2cfcc5bc50c98c91
5.2.997	26 Jul 2021	WCS-3267	Fixed: Two streams displaying as GridLayout in mixer with CenterNoP addingGridLayout	56ab44a21446e217827046decf141576d857aebd
5.2.996	23 Jul 2021	WCS-3227	Fixed: Recording optimizations. Docs: Video recording statistics	5b8cad56c8df10e7d3c258c4a0ab80aae6b426dc
5.2.995	22 Jul 2021	WCS-3219	Fixed: Origin app://localhost is not allowed	2408e69340c034e905879f74615f1bc8494e1dee
5.2.994	19 Jul 2021	WCS-3242	Fixed: Offline mixer billing	f96903652cbe87cb4e6fd5294d6c10f65cb72327
5.2.993	16 Jul 2021	WCS-3232	Fixed: Records symlink is created in records/ folder	cc98fb2122ac3c2cca2efe7f4f343a3ca2b6e82c
5.2.992	14 Jul 2021	WCS-3226	Internal recordings stats. Docs: Video recording statistics	a7b376fb8acb3831709cc6ca9ac263981c45dc27
		WCS-3240	Fixed: MP4Cutter doesn't work	
5.2.989	14 Jul 2021	WCS-3241	Fixed: vod-live loop: unsync and failure on RTP activity	15a8c57507b33993854c4eff3b562cf4b05a6262

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5.2.988	13 Jul 2021	WCS-3222	Remove Flash from WebSDK examples. Docs: Building all the WebSDK bundles	518d1d2b86b29a3171355d06b9d512d2c190e1ea
5.2.983	08 Jul 2021	WCS-3230	Fixed: Cannot start after update on JDK 12 and newer	39b59ee9dba7df2a6163fdc2eb92aeb72bb90ebb
5.2.982	08 Jul 2021	WCS-3039	Set mixer stream constraints while adding stream to mixer. Docs: Incoming audio and video management while adding stream to mixer / REST API example	94a151e22c2cfc42d7bf31ef6c4a140e88804d16
5.2.980	06 Jul 2021	WCS-3201	Fixed: NPE if permissions are not enough to write to record_tmp_dir	40073a093aa186902da6699dfcad3462cc7c1305
5.2.979	05 Jul 2021	WCS-3215	Fixed: Mixer: MCU and two channels: audio is slowed	0193b0fe2374714672e261a5cf7ddf2fe5088dec
		WCS-3220	Fixed: Mixer: Long participant's name not cut off properly	
5.2.978	05 Jul 2021	WCS-3223	Fixed: SIP as RTMP calls don't work	61267d6b374f73c9eb99ecfb0c8add6cec0c5a2
5.2.977	23 Jun 2021	WCS-3038	Mixer layouts refactoring. Docs: Custom mixer layout implementation	26a03eb06dec554f09e4c41ee168d292e2eb3c3a

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5.2.976	23 Jun 2021	WCS-3112	Logs are not written when WCS auto started after server reboot. Docs: Launching build 5.2.976 and newer / Known issues	dee7af490bf86b062db07cb5f2692e5f173403f8
5.2.972	21 Jun 2021	WCS-3042	Added: Launch script refactoring	6a1e986e860c9cdbf882675701f97c97660d99ed
		WCS-3100	Move JDK detection and configuration fixes from install.sh to webcalserver. Docs: Folder permissions setting when starting from flashphoner user	
5.2.971	10 Jun 2021	WCS-3210	Added: Setting to prevent connections from certain domains	217c232d3e203f2e45cb82a28d82ce42a9302df5
5.2.970	08 Jun 2021	WCS-3209	Fixed: Custom token is not shown in /stream/find response	9d160e4f303b0b625a63d3698fa3802a7187f8d4
5.2.969	08 Jun 2021	WCS-3211	Fixed: Server crash in native decoder on demo	5f38990bc3a6da24aff4a617b09db59242cb55cb
5.2.968	03 Jun 2021	WCS-3141	Added: Send custom message from backend to client while responding 403 on /connect hook	06634b27a6498230ee1bebc472caebc2f6cf4382
5.2.967	02 Jun 2021	WCS-3113	Added: Include statistics page output to report generated by report.sh	2ba0a150e75b0a52a6a0dded8ed5096ed4163040

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5.2.966	31 May 2021	WCS-3163	Added: Pass StreamEvent through a mixer	0f58719690171777d29bd5e7a9f2a6a3da3725c9
5.2.965	31 May 2021	WCS-3144	Fixed: Audio only stream displaying in mixer issues	347bb763758fa7c0a38fba69d3d4fba1854e3c73
5.2.964	28 May 2021	WCS-3199	Fixed: IDecodedPcmInterceptor: some helper classes are not available	f9e35410b767eede0a8e625d442d267f75e2a249
5.2.963	27 May 2021	WCS-3080	Added: A separate folder setting for temporary recording files	b37438d3bfcd32689ef6a9ed55f2f8c6d0a90d32
5.2.962	26 May 2021	WCS-2590	Added: Transcoder memcopy optimization	fa146a175ed2b1500e0fe48a5ba927db0f616a51
5.2.961	25 May 2021	WCS-3130	Fixed: Two pcap dumps in the folder: RTP stream cannot be played from any of them	c1b7b7b66f4ffe6b2857a4f4d850531ca9595f14
5.2.960	23 May 2021	WCS-2522	Fixed: Stream name XSS vulnerability	fa43efa9e1c9bbf2835a9b3210d9043924651f88
5.2.958	18 May 2021	WCS-3185	SFU - DataChannels	880cf74710360b3d423e60bbfd6b7d1586560978
5.2.957	13 May 2021	WCS-3071	Added: Separate folder to store fragments for MP4 cutter	48f4117ff43dcd47e5c611024fcef2e60d06d49f
5.2.956	13 May 2021	WCS-3088	Fixed: TcpServer NPE	67d19264797062ec4ecd5b0f8823269fcdc0844d

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5.2.955	12 May 2021	WCS-3158	Fixed: SFU - H264 support	b0044832f69d354db32d67ed4c637d7c9bbe6d72
5.2.954	11 May 2021	WCS-3145	Fixed: Excessive INFO logs on every recording start	99efcde3f36ea97a367a489a6e71ff5820dcacb5
5.2.953	11 May 2021	WCS-3181	Fixed: SFU variants are not playing after WCS-3088 NPE fix	91caadd103241146464e1027dcb2a7e99e822b0e
5.2.950	10 May 2021	WCS-3085	Fixed: Android Firefox: VP8: video artifacts in record and audio issues	9b03922884edffbbfb7188bbf6193e2226e363b4
5.2.946	29 Apr 2021	WCS-3084	Fixed: Honeywell MAXPRO Video Streamer RTSP playback issue	3a3545fcb64e32b946b03a784e6ff3bcdde82f82
5.2.945	23 Apr 2021	WCS-3143	Fixed: Transcoder2: PCMA, PCMU, G.722: Audio transcoded though audioBitrate is not applied	536b0a6c77def48dd880157acf6b65d0a7e119b
5.2.944	23 Apr 2021	WCS-3152	Added: Text message broadcasting to stream subscribers via StreamEvent	5acbc64fdeb97e83bdf77d41ee2b17e1e4059e73
		WCS-3166	Fixed: Crash in OpenH264 decoder	
5.2.942	21 Apr 2021	WCS-3153	Added: WebSDK: Text message broadcasting to stream subscribers via StreamEvent	657cf8ed7d38e806c5fe31f2474e81d63054738e
5.2.940	19 Apr 2021	WCS-3075	Added: Server build size optimization	496f0f75b4979ad5dcaa27e88f8af20c1ac1a7e0

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5.2.939	19 Apr 2021	WCS-3116	Added: Select el S3 support	79f71855a8fd6f9cf4ccc882a698e4008b775580
5.2.938	16 Apr 2021	WCS-3127	Added: Pass StreamEvent from Origin to Edge	d082b982d077fcd2ae4ae47da692b35ca3d35b2f
5.2.937	14 Apr 2021	WCS-3138	Fixed: SIP netty SSL pipeline	53d4fdff81d83dc15bcf2d3c7daec53684b68710
5.2.936	13 Apr 2021	WCS-3124	Fixed: File name issue when recording VP8	1265f2a5d691e1a98306d0c6f3628d752ed9f438
5.2.935	12 Apr 2021	WCS-3105	Added: StreamEvent - pass mute unmute voiceActivity events for playback streams	f54aeec80d64d4dc40b27b08ad88bbde42dc31c4
		WCS-3137	Fixed: CLI fails to execute a command using public key authentication	
5.2.931	09 Apr 2021	WCS-3122	Added: Audio bitrate parameter for transcoder	91a4160a9c8e4fdee4eba372ff6802fdb898d9b2
5.2.930	08 Apr 2021	WCS-3135	Fixed: Android SDK: MCU client example, Mixer MCU audio only latency	f1ec24f5dcc188bb44bcb867ba7a27c05fc4d017
5.2.929	08 Apr 2021	WCS-3134	Fixed: SIP local chat	9ab1bae7dbbf28b8d69e10be48d3ff91aa95d64c
5.2.928	05 Apr 2021	WCS-3103	Fixed: RtpServer does not play the dump	d0637743faf8a6e842f0bb51540b115bd8074517

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5.2.927	02 Apr 2021	WCS-3128	Fixed: TCP NIO buffers usage statistics	236148c41d34e1b7937c1cb29bee9be20bae3662
5.2.926	30 Mar 2021	WCS-3123	Fixed: Fix logs directory owner after license activation	92319b23ee34ea909457cd7de59340756b29fae6
5.2.925	29 Mar 2021	WCS-3118	Fixed: Video encoders in statistics on Edge	d5e86a0be399c13378a9e53cd264969dd37865ec
5.2.924	29 Mar 2021	WCS-3119	Fixed: RTSP: NPE while setting remote SDP	c37e06aa309e2edddfc6ca764d4af177aa56ad50
5.2.923	25 Mar 2021	WCS-3108	Added: Add fps, keyframe interval, b-frames to /stream/find response	aedc87cff21fea097721068cda0495425218ab31
5.2.922	24 Mar 2021	WCS-3107	Added: Audio mixer stereo support	c7392e2690ed46bf164ecd54581ce4a1c3400c58
5.2.921	23 Mar 2021	WCS-3104	Fixed: RTSP SDP parsing issue	dc802bd5dfa4a14df3851dd568b19b3db6091f94
5.2.919	19 Mar 2021	WCS-3098	Fixed: Mixer audio output quality issue	3a248d6a40cce53ccac53688a9c3d39aa62bd4dd
5.2.917	19 Mar 2021	WCS-3058	Fixed: Mixer stops due to RTP activity	e161e4d0e6760bf79d57c285434d9e0a662510b3
5.2.913	15 Mar 2021	WCS-3094	Fixed: JDK 15.0.2 compatibility	da9fbcc9eb7042c7fa97e525b5acc8a740f84a2a
5.2.912	05 Mar 2021	WCS-2996	Fixed: VP8 recording issues when publishing from Samsung browser	66f63576bd2642176dfd3bf3afa78a3ebbf84cd

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5.2.911	04 Mar 2021	WCS-2149	Added: Stream availability status and reason on client side	a35d935e4b3cbeffae934fc6386f752bf576f53e
5.2.910	04 Mar 2021	WCS-3089	Fixed: Proxy VideoDistributor unexpectedly ended	bfcd68459fa10a82a67af6e8403e8bec80101fe2
5.2.906	02 Mar 2021	WCS-3017	Fixed: VP8 recordings cannot be played in Chrome browser	d631a30d0fc273d4d6d41f0b9387b7cfcab7ab6a
5.2.905	01 Mar 2021	WCS-3045	Added: Java WebM recording impl	a06e077273cf714addb62ad4c80c54a565e45c35
5.2.903	25 Feb 2021	WCS-3048	Fixed: Packets dumper for stream debugging	80bf8844a89b2e267758bcec39bf603b13b4e82d
5.2.902	22 Feb 2021	WCS-1595	Added: RTSP Announce feature	cb746255f7286192338588891569092efc2cc204
5.2.901	19 Feb 2021	WCS-3070	Fixed: Default REST hook applications return 401 Unauthorized if REST API authentication is enabled	a9da743d0617dc2630c0df5435cfc348d4a606af
5.2.899	18 Feb 2021	WCS-3069	Added: Audio only MP4 recording files cut	2ffdac13a84b722ce2af60bd2a93e805e3dbed3d
5.2.898	17 Feb 2021	WCS-2993	Added: Audio parameters to /transcoder/s tartup config	134d8fc3857f90b42e0c77fd078a0ad95b6d432a
5.2.897	16 Feb 2021	WCS-2946	Added: GC data to stats page	53f825dce2cbb5319d88a0828bd6b6d79cd5b895

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5.2.895	16 Feb 2021	WCS-2454	Added: Take stream snapshot in client browser	e3343fe44647b0a017d8388b621bad6001216494
5.2.894	15 Feb 2021	WCS-3054	Added: Recording file playback in browser by timestamps	ec3b4746a06846be4bcddd637cb6588aa2996906
5.2.892	04 Feb 2021	WCS-3056	Fixed: Update should not break customers deployment flow	313a27bcfb36b57786966bfd44c850cc4c4450d9
5.2.891	02 Feb 2021	WCS-3005	Fixed: Load testing possible regression CDN	76c17d8ff5aef43aa7f459a7d017f00fd1f1e063
5.2.890	01 Feb 2021	WCS-3055	Fixed: Classes to use in custom mixer layout are obfuscated	ab949ee37c4058148920f3334a9b945dfe2486d3
5.2.889	01 Feb 2021	WCS-3046	Fixed: MacOS, Chrome 87.88, Safari - stream does not play from Origin, Win does not play from Edge	5619d095a97aa8cb4a46ce5bbbbe2bb20c178445
5.2.886	31 Jan 2021	WCS-2982	Fixed: Mixer startup with non default audio codec fails	2059cab85c7e82dbccc1fca8f7f8fc4e81666b14
5.2.885	31 Jan 2021	WCS-3052	Fixed: Two streams displaying in mixer with CenterNoPaddingGridLayout	2c972de7a867928e86fd6e5d40d6d147e48c51bb
5.2.884	31 Jan 2021	WCS-3015	Fixed: Stream inject to SIP as Stream	847a81a1d3aec98e53fe3b6ce7e1037e444b03dd

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5.2.882	22 Jan 2021	WCS-3010	Fixed: PcapTool does not play traffic dumps collected with RTP bundle enabled	ff84ff8ddd522aa8907f4113ce23b6a792b71ec3
5.2.881	21 Jan 2021	WCS-3034	Fixed: Do not start WCS after update if it was stopped manually before	5a7663a08caf6ea6235f7dd19d7f8eb3eaf03cc0
5.2.880	20 Jan 2021	WCS-3043	Fixed: CropNoPaddingGridLayout works in enterprise build only	fb155670dbee69c989c5b2e8857f0b4504011b3e
5.2.878	13 Jan 2021	WCS-2991	Fixed: Mixer: Text outside frame issues	0fa519866a01f772758d01a8bde7f31717e07b85
5.2.877	13 Jan 2021	WCS-2998	Fixed: Server crash in case of big padding in mixer desktop layout	8a9f022a0499ddf08e8ef1811de1073fea069075
5.2.876	13 Jan 2021	WCS-3006	Fixed: mixer_font_size_audio_only is not applied	c51695f7782eff169336e7a32c8fae84b2cd1f0b
5.2.874	12 Jan 2021	WCS-2994	Added: WebSDK: capture frames from third party library (beautifier, face detector etc)	cc1882d229ecf32ff112a0a0a0bdf117e28a46ac
5.2.873	07 Jan 2021	WCS-3022	Fixed: ArrayIndexOutOfBoundsException when RTMP push is terminated	5d7b26170000f51dd049f4e5304a426f66b83934
5.2.872	06 Jan 2021	WCS-2943	Added: Mixer video resolution and bitrate parameters to REST API query /mixer/startup	59eabbab6783552bcf0ff86e8b977282a5e2626d

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5.2.871	30 Dec 2020	WCS-3024	Fixed: Switching to non root issues while updating with <code>webcallserver update</code> command	f5d67cfdeda1422e35c1ed5482468ba8d96a502c
5.2.868	24 Dec 2020	WCS-2990	Fixed: NPE on attempt to play VoD stream as HLS	fe0b14325568c347d67f67b164f91142b74b abef
5.2.864	24 Dec 2020	WCS-2987	Fixed: Allow to start server with root privileges from command line	9a3b78ad2352e36374064db026a6e33660c4a86b
5.2.863	23 Dec 2020	WCS-3000	Fixed: RTMP stream with B-frames republishing and playback as HLS: low FPS	a33c134abc5158dbccac5ea8a405af4e50840c4d
5.2.861	22 Dec 2020	WCS-2999	Fixed: Mixer activity timer settings	d3828d9375f8e07e40055de06d237e5a7adda10f
5.2.860	21 Dec 2020	WCS-2954	Added: RTMP republishing prefix parameter to <code>/push/startup</code> query	10433977d595fe104218d9cf d4310f75a3606ef2
5.2.859	16 Dec 2020	WCS-3013	Fixed: Custom SDP issue	77d5933902d265bb404f909624a86b50c8e262ec
5.2.856	09 Dec 2020	WCS-2676	Fixed: Two identical records in <code>sdr.log</code> in case stream fails by RTP activity when both audio and video are not received	677085d093a7278d52b4b5a9f70441e66c5be99c
5.2.854	03 Dec 2020	WCS-2966	Fixed: update node-setting writes <code>turn_ip</code> parameters even they are not changing	f6220e9e758e80c9c108c9fd8d1a996dfcb2a14

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5.2.853	03 Dec 2020	WCS-2979	Fixed: RTMP republishing to Facebook issues	51a91d24a59aaf2d0d88ce17114c240fe59fd3c1
5.2.852	01 Dec 2020	WCS-2920	Added: Mixer picture-in-picture	6acf97286624c288575f62bbe8f783576ac117f9
5.2.849	30 Nov 2020	WCS-2019	Fixed: Connections to server are allowed when defaultApp is removed	f16cbc4403dfc806eceb90c41656c61c02e3f411
5.2.848	30 Nov 2020	WCS-2981	Fixed: CDN stream desynchronization using AAC codec	1eaf4fd13e7c2f75ac38e454cdeefc0463a5f4d
5.2.847	30 Nov 2020	WCS-2989	Fixed: WCS does not start as a service after clean install till logs/startup.log is created	074e405416a6fbb0a0295af815b024421825eb2c
5.2.845	27 Nov 2020	WCS-2980	Fixed: One stream in two real-time mixers: one mixer fails	975035eb52b9e679de2b72c3d645146530c51d9b
5.2.844	25 Nov 2020	WCS-2939	Added: Place mixer caption outside a stream picture frame	5a0e4616ce34a2e31f4e51e637f97c95ce920da6
5.2.843	25 Nov 2020	WCS-2887	Fixed: Correctly handle vod play requests	187c39a811cea9fb2e2e3efb10d0183106b9cf1f
5.2.842	25 Nov 2020	WCS-2949	Added: Stream picture crop in mixer	8e2439156636353d128a125c3af2195609ffa48a
5.2.841	25 Nov 2020	WCS-2654	Inject one stream to another	82119ac565680d1b9f5cb8cf319fa6613ebd538

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5.2.840	24 Nov 2020	WCS-2913	Fixed: Start WCS without root access rights	7f9389b2d2214779d162d59c375cb77e76f9d1a9
5.2.838	20 Nov 2020	WCS-2977	Fixed: Mixer: Long stream name is not cut to participant's frame size	fb0337b12cc61be0a6279d659d407690810f692a
5.2.837	20 Nov 2020	WCS-2975	Fixed: Mixer parameters in find_all results	eab220e478942d2cc7a6c3dfb9eb5bd329df3996
5.2.836	19 Nov 2020	WCS-2971	Fixed: Server crash with CE NTER mixer desktop align	e6c9194392d229e85d634bd3a69ff06bf1dafa57
5.2.835	18 Nov 2020	WCS-2957	Added: Manage mixer feeding streams volume	7c550c774e97c64c68549724e70da9a8589c4d87
5.2.834	18 Nov 2020	WCS-2978	Fixed: DTLS 1.0 is used with custom backend	a256c35dde110c2c373138ed65b7e11510b1de83
5.2.833	17 Nov 2020	WCS-2951	Fixed: Autostarted mixer: MCU enabled: 409 on attempt to read removed stream	bd0f118348da04d6f677504e074a4a4d049d0aa2
5.2.832	12 Nov 2020	WCS-2959	Fixed: Mixer: double free on unpublishing audio-only participant's stream	4d43bf1636b52ef13017c45bfe1af9f7f6a9c24b
5.2.831	11 Nov 2020	WCS-2953	Fixed: Check free disk space before writing database.yml	7e8cbd618040e3964fcede7358ca3c2c697dc19a
5.2.830	10 Nov 2020	WCS-2944	Fixed: CDN: playback of video-only stream - video doesn't appear	57d01ba695ba8db7257f2cc881cc61a083074a80

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5.2.826	10 Nov 2020	WCS-2964	Fixed: Can't start transcoder for RTSP or VOD-live stream	e14ea907728439f5d75e97c99be04a2f58bb2f77
5.2.820	06 Nov 2020	WCS-2965	Fixed: RTSP stream bitrate drop in Safari	df1a5f7314be94770e0c91156ce32181913a22bb
5.2.818	05 Nov 2020	WCS-2962	Fixed: VOD is playing without audio	936a089e6efdf990921552eaf1874365624d474
5.2.817	03 Nov 2020	WCS-2940	Fixed: rest-api/call/startup with video: call is initiated with audio only	493aea9c4b7d2d173925533df0ffa51958e86d63
5.2.816	03 Nov 2020	WCS-2911	Added: OPEN H264 multithreaded encoding	019c2de5b6a534b20e4dcca4727c26dd5638e4fc
		WCS-2937	Added: Mixer custom labels	
		WCS-2942	Fixed: Dont reset non-dynamic settings	
5.2.803	30 Oct 2020	WCS-2929	Fixed: RTSP audio playback issue	6c085e1b6887ca8f8d161bbcf7123f0e3c8617417
5.2.802	30 Oct 2020	WCS-2947	Fixed: RTSP: stream not found	7855c3b8db86af5c436395aa67e57650c8b4aefc
5.2.801	30 Oct 2020	WCS-2952	Fixed: RTSP: IndexOutOfBoundsException exception	691eddb007f97a7f857b3ff479b332fc457b7992
5.2.798	26 Oct 2020	WCS-2916	Fixed: Internal TURN server does not work in latest AWS AMI	fd27ac365cc9647333fcbf91be044266daa47b9d
5.2.797	26 Oct 2020	WCS-2924	Added: Websocket request URI customization	d2657faf229786985b9864460503948614847789

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5.2.795	21 Oct 2020	WCS-2663	Added: Security for CLI	e6187573e6296d78a55fe806ac787c026481bd60
		WCS-2863	Added: Server side audio processing	
		WCS-2894	Fixed: RTMP with MP3 does not fail	
5.2.793	15 Oct 2020	WCS-2902	Fixed: MCU performance on multiple publishers	278108b6a6868d162016bbcf13943d0eea813749
5.2.792	15 Oct 2020	WCS-2909	Added: Filter client connections by domain	cf36aa80be101726645002c8c7cf80bb3c054205
5.2.791	15 Oct 2020	WCS-2927	Fixed: Chrome 86, publishing audio only stream does not play as audio+video	6c66f3326c58d7861a36d3f9c6ef9b9c3429db1d
5.2.789	13 Oct 2020	WCS-2444	Fixed: Unused timeShift field in RestClientConfig	a0dc08633ec3932de97dfbd14aad0745a40f2c1e
5.2.788	08 Oct 2020	WCS-2910	Fixed: Audio watermark is speeded up	e01e7115aed872adfcc95be33818b281f2a4d67
5.2.787	06 Oct 2020	WCS-2908	Fixed: RoomAPI video chat and screen sharing issue	115fb80148a6ec2486c17a4dcd94a75f7702de05
5.2.786	05 Oct 2020	WCS-2896	Fixed: FREP enabled: NPE in log when mixer is started	028e299aa2ac0e782401dde005ee19159040ca69
5.2.785	05 Oct 2020	WCS-2895	Fixed: RTMP republishing to Periscope and Twitch issues	028e299aa2ac0e782401dde005ee19159040ca69
5.2.784	02 Oct 2020	WCS-2763	Fixed: Spec compliant RTP reports for audio	4f60600b1ba5a398295184e0ed27c1ade115f458

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5.2.782	02 Oct 2020	WCS-2915	Fixed: Permission denied while enterprise server updating	2658bf7f65bb ed44509d1c50 b78c96ab843d 1a85
5.2.780	30 Sep 2020	WCS-2912	Fixed: Security issue: file path traversal reported by isak-sakovskiy@ptsecurity.com	fcc56854fc17 318b93cc9d4f d7d712f79152 0d6b
5.2.779	29 Sep 2020	WCS-2897	Added: Settings removed from flashphoner.properties are not reset to default after reload node-settings	a97cb45e2613 aca6c7afa623 4b157f98a6aa 960d
5.2.777	28 Sep 2020	WCS-2892	Fixed: Publishing from Two Way Streaming does not work in Chrome Canary 87 on MacOS	919feaf36608 ed2bb8e6a365 8e38827c9b98 77d2
5.2.776	28 Sep 2020	WCS-2893	Fixed: reload node-settings: NPE in server log	a768c1b166b3 6ec2ac078017 4d3facf8a9e4f 766
5.2.775	28 Sep 2020	WCS-2903	Added: Mixer speech indicator settings	ba81fe5b3421 38eeefa25830 c9b4aab8e388 5f43
5.2.774	23 Sep 2020	WCS-2856	Added: Central logging system with ClickHouse support	8a0a158ba346 8fc79359a0f1 7f54cadea275 1d19
5.2.773	23 Sep 2020	WCS-2881	Added: AAC mono in CDN without transcoding	7bc4319ce0f5 e2671d5dfb1a ba7d198348e7 e51b
5.2.771	17 Sep 2020	WCS-2819	Added: Capture stream to play as HLS	ebb93f596cda d693f9b66ef3 c63ca08241a2 012f

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5.2.770	17 Sep 2020	WCS-2871	Added: Mixer caption additional settings	2d5a2041907fc322cbb48c7893c5dd8d8cd9ea8d
5.2.769	16 Sep 2020	WCS-2869	Fixed: Statistics parameters requesting	9b38649d35651aab40acc2626453caffa0cde274
5.2.768	15 Sep 2020	WCS-2885	Fixed: RTMP failed if media session is not initialized	230beb3f2d8801d729bd8293e94ae6b7ad2bf65b
5.2.767	14 Sep 2020	WCS-2874	Added: RTMP pulling: allow to reuse uri	897932dc62562f5ecc2761e7ab05b47f56bcd50f
5.2.766	10 Sep 2020	WCS-2809	Fixed: IOException when scrolling stream record playback	2db3208bd5f7b7e5a8960228832118822f2a51ed
5.2.765	10 Sep 2020	WCS-2873	Fixed: RTMP publishing issue	2941c9b8fe490243ad6b76db50813dac16890d63
5.2.764	10 Sep 2020	WCS-2755	Fixed: AAC to Opus transcoding: mono audio track	29020a4a79b1e814e4e0be59cac2e53145bed1b2
5.2.763	09 Sep 2020	WCS-2859	Fixed: Use odd media ports	0c4bff99c29caae36601518d2c7bed37994e6e27
5.2.762	08 Sep 2020	WCS-2877	Enterprise build update	db361cd1442d5aeb1c6405fc2c423af302f7bbab
5.2.761	08 Sep 2020	WCS-2865	Fixed: Server crash when too many participants in mixer with desktop layout	c08e8e5979836be645615cd2e96f5885b4fd5b0c
5.2.760	04 Sep 2020	WCS-2866	Fixed: High LA while publishing RTMP to Origin server	32d462b5aa648154357d31d2be9223871d728104

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5.2.759	04 Sep 2020	WCS-2867	Fixed: IP addresses detection in Google Cloud and compatible cloud APIs	023693ba28043f95cd58e19ff5d3d5f0e5284e14
5.2.758	03 Sep 2020	WCS-2810	Added: Custom SDP settings for MSE	78a2d2b817b41d036954b3e2f7bd73f1f0e2d8b0
5.2.756	02 Sep 2020	WCS-2855	Fixed: Mixers startup without localStreamName: streams published without a name	9eee27a434118849f89991f470831c8b124258e4
5.2.755	01 Sep 2020	WCS-2698	Fixed: Possible audio resamplers leak	a35697b263288cec41b63e2f5170040bcbb33a1a
5.2.754	01 Sep 2020	WCS-2807	Added: Return origin domain in ACAO header	111072f942ea440b166f856bcbfb343f05bc9658
5.2.753	28 Aug 2020	WCS-2858	Fixed: mixer/startup allows creating more than one agent with the same uri	0f463e1088ec8c37348a12eed68cd30c86565685
5.2.752	28 Aug 2020	WCS-2844	Fixed: Transcoder resolution issue	4be8c48333fa2d93eaceecbd891439f7c0008249
5.2.751	28 Aug 2020	WCS-2864	Fixed: Mixer: IndexOutOfBoundsException in left or right align desktop layout when participants' names are displayed	ed87054fb9fc0b77418521738005f24a68036340
5.2.750	27 Aug 2020	WCS-2861	Fixed: RTMP url does not play in pulling mode	a33f33dfa19ae1cee1000066b043039fde5dabe9

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5.2.749	27 Aug 2020	WCS-2808	Added: Centralized QOS stat gathering	4a58512c04b7bf5b075e319991bd122b217e1193
5.2.748	26 Aug 2020	WCS-2829	Fixed: MCU mixer issues	0cd8e9fa262d80aadd24914c4f44e411babff0fe
5.2.747	25 Aug 2020	WCS-2850	Fixed: Mixer participant's name background overlaps voice activity frame on the sides	866a642da79c621e3328f65357804437be954fe9
5.2.746	25 Aug 2020	WCS-2833	Fixed: CommonStatSample Thread fails on database.yml reading	e9a585a964870f6a3588a94b7e634679db7241d6
		WCS-2845	Fixed: Transcoder creation for audio-only stream: NPE	
		WCS-2857	Fixed: Mixer load test broken in latest builds	
5.2.745	25 Aug 2020	WCS-2834	Fixed: Timestamp normalization issue	1817efbc2802139207eccdf2b497414f5816fab8
5.2.744	21 Aug 2020	WCS-2847	Fixed: WebRTC audio/video only streams cannot be republished if RTMP bufferization is enabled	d47992a55b3cb96776b360727b0552937683c823
5.2.743	21 Aug 2020	WCS-2546	Fixed: NPE on adding/removing debug by IP	98bbb77a9b959c7e568776c588aca11b8c6b5619
5.2.742	19 Aug 2020	WCS-2849	Fixed: RtmpAgent filter: prioritize uri	bfa3047ba6d8e38220d403a8c4639b6981e5d00f

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5.2.741	18 Aug 2020	WCS-2846	Added: Mixer stream caption and speech color settings	b01fe6465f075587315163a2d0136cf3e0529e52
5.2.740	18 Aug 2020	WCS-2814	Fixed: Mixer participant name: descender parts of characters are cut off	4b4c91b1477607ebdd094d37dc855b9d21b2a571
5.2.739	17 Aug 2020	WCS-2768	Fixed: RTMP re-publishing authentication does not work	56c76f24dd2072ed1fe555bcc3aca7f83a92c778
5.2.738	17 Aug 2020	WCS-2839	Fixed: /pull/pull without localStreamName returns invalid status	998f6a24aca273f077f6029be1f8791f79949d46
5.2.737	13 Aug 2020	WCS-2838	Fixed: /rtsp/startup: rename toStream parameter to localStreamName	741c36ca59afca542f9f8312d71743e88bced5ec
5.2.735	13 Aug 2020	WCS-2835	Fixed: /vod/startup: NPE if no localStreamName parameter passed	5757aa20e77579f2618512a3c5f61d41c31f1531
5.2.732	13 Aug 2020	WCS-2825	Added: Add one stream to two or more mixers simultaneously	09ab297c20d8a74014f06d66125e92a4c8a6d74f
5.2.730	13 Aug 2020	WCS-2840	Fixed: pull/rtmp/pull and pull/pull return 200 on attempt to use already existing local stream name	4ac46f3f2cc353abead5b955600a43396d1d9fa5
5.2.729	13 Aug 2020	WCS-2841	Fixed: Return valid HTTP headers with response 404	fd0193e3b09993c6ddc8207d87a618dbb3811e8b
5.2.728	11 Aug 2020	WCS-2821	Fixed: Many 'Can't read custom watermark file' logs	e475300ea8011524efed326adb8cda46f9490a97

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5.2.727	11 Aug 2020	WCS-2843	Fixed: "double free DecoderResult" on CDN transcoders	67abee83c63844824ff50c63cad465ace5a151c8
5.2.726	11 Aug 2020	WCS-2836	Fixed: /pull/terminate: URI filter issue	954f8332d0faf31bd62469c2df7ab645238251
5.2.725	10 Aug 2020	WCS-2837	Fixed: /pull/rtmp/pull: do not create agent if already exists	09a6e694125c1910d25db8f86a853b94bad121a5
5.2.724	05 Aug 2020	WCS-2828	Added: localStreamName parameter in /pull/rtmp/pull query	1ab86fee8f8799c8072ffd6808a1f1c5eb415cbe
5.2.722	04 Aug 2020	WCS-2812	Fixed: rtsp_client_strip_audio_codecs does not work: NPE	4c9aceb94819f5980ad479f6b5f9f50c644c9967
5.2.721	03 Aug 2020	WCS-2824	Fixed: Stream KeepAliveEvent issue	fa83e05158cb8de762748d602d7c2c7480e74473
5.2.720	31 Jul 2020	WCS-2823	Fixed: Mixer fails due to NPE if no fonts installed	dd7523e8711cd793dfb3bd1de02ae2d3390bc5b0
5.2.719	31 Jul 2020	WCS-2820	Fixed: Mixer desktop participants' priority	7dcd10540be7f5df1cfa8ad9e2e8030af6ad6795
5.2.718	30 Jul 2020	WCS-2822	Fixed: Wrong bitrate detection for RTMP low-bitrate streams	e8855b5884a053bb606158085ce4ee674c44f50e
5.2.717	30 Jul 2020	WCS-2803	Fixed: SIP call stuck in RING state when SIP establishing workflow is broken	a6d8894c7803c907383e2db6008860ea864aa7e3

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5.2.714	29 Jul 2020	WCS-2804	Fixed: OBS hangs up on attempt to publish stream with an existing name	2c65a0912f8994285e88f830c524b3f01646a267
		WCS-2811	Fixed: RTSP stream cannot be played as HLS	
5.2.713	28 Jul 2020	WCS-2796	Added: Add to mixer only audio+video stream: no frame for participant	d083313818427f7390325e638e56f79030f82471
5.2.710	27 Jul 2020	WCS-2752	Added: Mixer custom desktop layout	d309abbeaa57a63d13d58ef03d974162c110c039
5.2.709	24 Jul 2020	WCS-2715	Fixed: Real time-mixer screen sharing layout text issues	c5236f2a88f5cf43baaf29b97e36fca004abf982
5.2.708	23 Jul 2020	WCS-2609	Added: Add ability to fully remove node from CDN	196a9de5aeef2bd657ca3286701b982a77a95657
5.2.706	21 Jul 2020	WCS-2709	Fixed: Snapshot series taking issue	a8a0b4a0a4f9831041c7a7b307253abc95bc89ae
5.2.705	21 Jul 2020	WCS-2769	Fixed: Big recording playback issue	73c40bbaa9a746e217cdb548dc85aff3e1ade64f
5.2.704	21 Jul 2020	WCS-2735	Fixed: iOS Safari: CVO picture rotation issues	4fc0d61e561f22fbc060411e81bcd2f84e7ba6f4
5.2.703	17 Jul 2020	WCS-2734	Added: Release spare media port when bundle is used	b2f1a21d97ccf40e529b2f444dbf1dbe1114b961

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5.2.702	17 Jul 2020	WCS-2798	Fixed: Transcoder stream terminated: Uncaught exception	8b437daff727d9d62f056c89c4a1d457cfc1e430
5.2.701	17 Jul 2020	WCS-2787	Fixed: Failed by ICE timeout when RTP bundle is enabled in Firefox	8c176ba1cebaa5150f3ccd70d7f761b03225df8d
5.2.700	16 Jul 2020	WCS-2771	Fixed: As RTMP case, RTMP out bufferization	d5ef44254a6b76b857dd5582b55dee78b9f28eff
5.2.699	16 Jul 2020	WCS-2802	Fixed: CDN version parsing issue	ebdf0f8ab4815bb96fe67ba2e286e15f295c0964
5.2.695	10 Jul 2020	WCS-2786	Fixed: RTSP stream playback fails; player doesn't receive the status	8b089842c6d82724c987f9a645afbe84fbc74882
5.2.693	10 Jul 2020	WCS-2622	Added: Multiple overlay images per stream	7af6576fe8bea3762577311a05a590f7c94cf1c7
5.2.692	09 Jul 2020	WCS-2793	Fixed: Record name is encoded twice	a36bde76da1f48155ad84c49e089284742821f74
5.2.691	09 Jul 2020	WCS-2774	Fixed: exclude_record_name_characters: server crash	3f1f6602d53daa97cd0f4234bc6bbb7431cea56f
5.2.690	09 Jul 2020	WCS-2773	Fixed: Hexadecimal encoding enabled for record name: publishing fails by RTMP writer error	78fa077ed2a364fea7e76171199e71db38860c0e
5.2.689	08 Jul 2020	WCS-2750	Added: Option to turn off audio mixing	3371120868ef46df0e7a3821b5dd2a1d55f22e28

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5.2.688	07 Jul 2020	WCS-2591	Added: CORS for REST basic authentication	6c37fc70b34a0d6d3e528cdd06f0a73c62bbc544
5.2.687	03 Jul 2020	WCS-2558	Fixed: Connection can't be established if access to REST is not permitted	0558266e6e0ebe7db1526a6f49d0480b5a83f194
		WCS-2662	Added: Add settings to customize records, hls, media folders	
5.2.686	02 Jul 2020	WCS-2741	Fixed: Custom mixer layout: ArithmeticException	78b02193c58e8646a5a6acedd24e025b9a627e6
5.2.685	01 Jul 2020	WCS-2780	Fixed: Can't parse SDP for RTP stream	0e2bb04b4c9cf300d47062fc78ac789b422cb87f
5.2.682	30 Jun 2020	WCS-2781	Fixed: Delete/Refresh CDN old state upon new state receipt	20927522939a2e428906f0d74d4ab0de4ed3f691
5.2.681	30 Jun 2020	WCS-2782	Fixed: CDN multiple connections between nodes	017da5d9069d866c084157361c172a42a56be344
5.2.680	29 Jun 2020	WCS-2740	Added: Move several streams recording to separate example	ab02e57437d5c316ff2c77dab00aa656e672bced
5.2.679	29 Jun 2020	WCS-2775	Added: Health checking support	3a0e677c278a929b683f13e34301f79107139ab8
5.2.673	25 Jun 2020	WCS-2759	Fixed: Stream Recording example: download link is not displayed	881161d998a4192a733a643abbdae028c3339c6

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5.2.672	24 Jun 2020	WCS-2583	Fixed: Close socket by STUN keep-alive timeout in CDN	94c5cc73811ca7e5cb01d15989e43e64a72151de
5.2.671	24 Jun 2020	WCS-2701	Added: Implement CO64 atom to support large MP4 files	19f6295cbf4cecedf22cbf9e7d719ba2d494161b
5.2.670	23 Jun 2020	WCS-2729	Fixed: Origin heap leak	b27d96b2ac3023cd2206e22f94b47882f406005b
5.2.669	22 Jun 2020	WCS-2764	Fixed: Failed to encode STUN message: CME	9bf02d07e5ac08ee611d8fdb883925de55101aea
5.2.668	22 Jun 2020	WCS-2719	Fixed: VP8+opus stream recording to webm: sound distortion	da5ec8922f3bd28422d76498596263bbe6df23a5
5.2.665	19 Jun 2020	WCS-2766	Fixed: Audio only and video only streams cannot be published while RTP bundle is enabled	cc34806697916716d2d4edbb3835fdabd339ab69
5.2.662	19 Jun 2020	WCS-2722	Fixed: Audio-only stream in mixer: Voice activity frame when audio is disappearing	4d029e0a852d332ce64491552104a8a17a739255
		WCS-2761	Fixed: RTSP and SIP with bundle support	
		WCS-2762	Fixed: ERROR: Failed to route Rtcp packet	
5.2.660	18 Jun 2020	WCS-2757	Fixed: TCP transport and RTP bundle: subscription from CDN Edge to Origin fails by ICE timeout	e2a33e0738074a6289adb8dc7f8e30c5b46d16ba

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5.2.657	17 Jun 2020	WCS-2724	Added: WebRTC bundle support	c092ed9838476129d6e2ffae69807bb31dace798
5.2.654	15 Jun 2020	WCS-2589	Fixed: CLIV2 stream record-metrics-start: no VIDEO_LOST metric	67d732a517969b48db9af554ff9ad60a203a780c
		WCS-2653	Fixed: /stream/stopRecording and /recorder/terminate return 200 OK when the passed mediaSessionId belongs to a playing session	
5.2.653	12 Jun 2020	WCS-2716	Fixed: RTSP pulling: Failed to normalize SPSS	242f86ff910b3aa8b2c0a8c718040c3f609eb30e
5.2.652	12 Jun 2020	WCS-2745	Fixed: Mixer startup failure: SdpFactory NPE	b99829d0279e8fc735e5f1bad75240a24e6400ab
5.2.650	11 Jun 2020	WCS-2742	Fixed: RTSP pulling from Genetec Media Gateway issues	6316e7df6845494c24521d2aa7817c36e9136ed5
5.2.647	10 Jun 2020	WCS-2688	Fixed: WCSAgent ports consumption grows	c443be63b4c8922886deb5959460e33138f751a2
5.2.646	10 Jun 2020	WCS-2737	Fixed: Real-time mixer: resolution settings for audio-only participant are applied only after server restart	dd22c843b0c8d58e38eae93a3a0e07c0b3705217
5.2.645	09 Jun 2020	WCS-2691	Added: Custom mixer stream background	ea71425eb47d53a775f556c736ab95bac20ed858

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5.2.643	08 Jun 2020	WCS-2733	Fixed: Disable RTMP keep alive by default	14bf30556af1ea4e7f6da873b8aea044ad63df53
5.2.642	08 Jun 2020	WCS-2711	Fixed: Real-time mixer layout issues	20a960438d831a00f605bd9f9f909850f177bc44
5.2.640	05 Jun 2020	WCS-2730	Fixed: Redundant transcoding prevention	22432747f5c6fa508b75a0bc5921824375a15948
5.2.639	05 Jun 2020	WCS-2682	Fixed: Simultaneous recording takes too much time to save the files	0274950172ec1b5d759fbde6755d564693bd1f74
5.2.638	05 Jun 2020	WCS-2718	Added: Add 'grep' command to CLiv2	6969be96fdd45481e2c21570de3d0b3d41c59378
5.2.637	03 Jun 2020	WCS-2721	Fixed: HLS Access-Control-Allow-Origin parsing issue	0ecec53990d2b4617b889a6ee54c37b716bde9d7
5.2.636	02 Jun 2020	WCS-2713	Fixed: RTSP stream playback issues	726cf391caaf723ad74c7bbf2ccb6f89170b288d
5.2.635	01 Jun 2020	WCS-2565	Added: Server time in recording file name template	1e904066f375a36ff23d1ecb6e9f9e28fdbba33dc
5.2.634	29 May 2020	WCS-2710	Fixed: Mixer REST-hooks	ba19ec513e79a4c8b028ed0773cbb98cd7b86e31
5.2.633	28 May 2020	WCS-2583	Fixed: Could not create HMAAC	237265433fcc1dcc428393f8d724529bb3df75ba
5.2.632	27 May 2020	WCS-2535	Added: Signal catching in Java code	e1eae40652a63aa5bffa492bde59a2181930fea0

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5.2.631	26 May 2020	WCS-2573	Fixed: RoomApp: participant is not removed on connection closing	77a87ce52342ec1354d07820ce7395bcccc986dce
5.2.630	26 May 2020	WCS-2694	Added: Real-time mixer UI features	edc24d8aa44722ad87e8f4d36278717ebfe379ff
5.2.629	22 May 2020	WCS-2689	Fixed: SIP trunk: call dropped - Busy: NPE	dd8778ba58690d19a44ed583cd116650fe511539
5.2.627	22 May 2020	WCS-2699	Fixed: OBS stream with hardware acceleration issues	f59f31b3ac627ae32397fcd450397605f9bf317
5.2.624	20 May 2020	WCS-2696	Fixed: "Failed to handle record rtmp stream" errors in log when mixer is enabled	1f8b3980192a29bc5a5bc6a45a711542adcb3f89
5.2.621	18 May 2020	WCS-2697	Fixed: Chrome does not play MP4 recording	2f52e6373ae3eb4ba38069dbf41399a2e9bfbfd5
5.2.620	15 May 2020	WCS-2664	Fixed: WebRTC B-frames stream	98ca76c5b69638b01702b42457ae6bf4cdd4d07
5.2.616	15 May 2020	WCS-2672	Fixed: RTSP stream capturing from VMS issues	5e416260aabc68145fb0f12bee30f94dff277b4
5.2.615	14 May 2020	WCS-2692	Fixed: Origins topped streaming to Edges	b4908763858a329d6ea6967be32593fa4dc14bce
5.2.614	14 May 2020	WCS-2677	Fixed: SIP trunk call: SIP as Stream: Non monotonic audio time: corrupted recording	cb51dea1bbf13d09fb42bda3adf528b252e54ecd

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		WCS-2679	Fixed: SIP as Stream recording: call with G.722: audio is distorted	
5.2.613	14 May 2020	WCS-2675	Fixed: sip_record_stream=true: no recording for incoming SIP call via SIP trunk	aab0c97e0100a4eb229b581a2769f218b3c758a6
5.2.610	13 May 2020	WCS-2606	Fixed: playHLS, playRTSP hooks auto creation while authentication is disabled	6f981cb4702d99275e32f57eab160dacc6de907b
		WCS-2628	Added: Stream recording to TS container	
5.2.608	13 May 2020	WCS-2678	Fixed: SIP call: OpenSIPS: DataHandler ArrayIndexOutOfBoundsException	19b498bf354b7e631a78b4ef59ee8c8bde489795
5.2.607	12 May 2020	WCS-2410	Added: Option to prevent transcoding to equal or upper resolution	9f043ddbcb6f97cf56a03e2811e2ece4df44ba11
		WCS-2635	Fixed: Mixer real-time MCU client	
5.2.604	07 May 2020	WCS-2562	Fixed: SIP as Stream recording issues	734afb5a19e337ec4600785bb0f59c1ccb2bfff16
5.2.603	07 May 2020	WCS-2607	Fixed: Negative buffer pool size in statistics output	e1dc8b22ee89c6b7d9a43e31bd3034ec0cbc6010
5.2.600	07 May 2020	WCS-2649	Fixed: HLS playlist broken	ad115c6d1ce257fd49c7bf26699eb1a10d1d0888

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5.2.599	06 May 2020	WCS-2670	Fixed: SIP trunk, invite NPE	7cda5c12e941473cf49323f2cabe92848a9030b7
5.2.597	01 May 2020	WCS-2661	Fixed: Prometheus custom stat integer metric issue	135522542310a0e0fc13fb0ba07ebb8af3a95d8f
5.2.596	30 Apr 2020	WCS-2588	Fixed: SIP call RTP activity checking	c88002151f5dcb123f6ae0c2b4db08842e1dd377
5.2.595	29 Apr 2020	WCS-2643	Fixed: HLS in memory: segments are not loaded	ec79108488c2819238833c4ebae30dab437ede79
5.2.594	28 Apr 2020	WCS-2652	Added: Additional thresholds to disable new streams transcoding	c5074a9b7519f0c6c653182c472aeb3cd534fd38
5.2.593	28 Apr 2020	WCS-2657	Fixed: Wrong creation time in recording metadata	b5078ab84614c02d6ffe03259ce84aafb997dd49
5.2.592	27 Apr 2020	WCS-2629	Fixed: recording_stats increases for each new rotated recording	0bfdc34ca63c4be58c364bbcb44403eb0c5b0ed0
5.2.591	24 Apr 2020	WCS-2584	Fixed: /stream/stopRecording and /recorder/terminate return 200 OK when recording is already stopped	54b0ff638d81e3e5350a066f8bf93652816868ac
5.2.590	24 Apr 2020	WCS-2564	Fixed: RTMP from XSplit Broadcaster: video issues	2791688c32168aa9d3c026834af388da3cf99bfb
5.2.589	24 Apr 2020	WCS-2645	Fixed: WebRTC with no audio republishing as RTMP: no RTMP media traffic	b6f679bd212c88cc5011a37ac49ed89a4147544b

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5.2.588	23 Apr 2020	WCS-2648	Fixed: Prometheus wrong format	9ee718f94f19ee618001cd47789d4da3a1a1d20e
5.2.587	22 Apr 2020	WCS-2624	Fixed: HLS high LA and contention	8aced52c7f659362d283952620c4da4fc5de1d1
5.2.586	21 Apr 2020	WCS-1206	Fixed: Screen Sharing - Failed to decode control packet WARN	181adc996e4318eeffef18d2207cfc55a836d375
5.2.585	21 Apr 2020	WCS-2524	Fixed: HLS AB R new implementation	a181e52c662f0caa7711f7fc10f181e4b182412
5.2.582	20 Apr 2020	WCS-2610	Fixed: Send 404 Not found if HLS playlist doesn't exist with live HLS provider	bc8eb0453bf20b838871e7fd27c0879cbeb4532
5.2.581	20 Apr 2020	WCS-2633	Added: Add setting to store HLS segments	9e9af3ec3c893aef07c8ec237449623e8a4a7bba
5.2.580	20 Apr 2020	WCS-2623	Fixed: RTMP stream: playback issues	4d3ebb6141d10a213dc3de01b3e12741b8c68e68
		WCS-2634	Fixed: RTMP stream publishing with 1 channel audio from OBS	
5.2.579	20 Apr 2020	WCS-2630	Fixed: Add prometheus metrics Java, GC mem, GC timers	10008d73090a2a741994303e0f2898652d7a9237
5.2.576	15 Apr 2020	WCS-2604	Added: Add FPS to inbound VideoRate message	ca0eea1a20f3bfa6a7f932ba3cded7dcac30f59f

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5.2.575	14 Apr 2020	WCS-2620	Fixed: OPUS-to-AAC transcoding to mono instead of stereo	c0a0189efe9044f9aa6227bbaee6a8668cc2ad58
5.2.574	14 Apr 2020	WCS-2615	Fixed: Do not overwrite scripts in bin folder when updating WCS to a new build of the same major version	7b457a188bf361821cf95da247bd4d8b29f02d0b
5.2.572	14 Apr 2020	WCS-2419	Fixed: Custom mixer layout example: audio only	0c7c60d2de6f16856c04dc250946871114307583
5.2.571	09 Apr 2020	WCS-2618	Added: Warning on certificates page when user logged in as demo	c7f4cee96db7330ea8a0b1f7828039f7e3028164
5.2.570	08 Apr 2020	WCS-2619	Added: Decoding and encoding integral metrics	be20ed565889000662d1bdab5eae46392c0d68af
5.2.567	31 Mar 2020	WCS-2593	Fixed: HLS can stuck in INITIALIZING state	3b890db6056ff3f004ca9f9dcdaaddc693a0a86b
5.2.566	30 Mar 2020	WCS-2586	Fixed: recording_sessions not decremented	98b37bf82b6c7d408f71dd8d003ec8ced251112c
5.2.565	27 Mar 2020	WCS-2587	Fixed: Prometheus stat sometime returns nothing	b2ec0191f114d2b88932b3d3eaba0dff64595c41
5.2.563	26 Mar 2020	WCS-2603	Fixed: Edge heap grows	26556559910ff790c25aa89684c68af2acc19b
5.2.562	24 Mar 2020	WCS-2602	Fixed: Origin memory leak	1ee98cec8a10462855e951b27b59ce047cb05fb7

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5.2.561	20 Mar 2020	WCS-2598	Added: Too of ten periodic FI R requests	b725eccd85b3e71afce2cc1ce93e46ad33e36606
5.2.560	19 Mar 2020	WCS-2457	Fixed: Unneeded transcoding while stream republishing as RTMP	07d54084dd0f5ac6362bdc3d85556f74d8cd8352
5.2.559	19 Mar 2020	WCS-2585	Fixed: Pool of YUV frames for decoding	16844a2e5dd14c66b16d2d7c494612fd3263f546
5.2.556	16 Mar 2020	WCS-2544	Added: Add stream metrics to CLlv2	a36e7f926f3794c4922edbf47ec0efb8863e84f0
5.2.555	13 Mar 2020	WCS-2518	Fixed: B-frames do not work with FF decoder	937ff76894de59e707e0255722ca7fa061d11cff
5.2.554	13 Mar 2020	WCS-2581	Fixed: HLS writer null, Blocked on provide Stream	430566a0dbcc6b11331c44c062512e88cf07ecd8
5.2.553	11 Mar 2020	WCS-2580	Fixed: Stream record file: some parts not playing when rewinding	4d835b8557c1ec7521651d69d5ba590e2d4a4ed0
5.2.552	10 Mar 2020	WCS-2579	Fixed: Minimize use of malloc during video transcoding	554eb771fc1d156603bda6ddcc1466c4bd642092
5.2.549	06 Mar 2020	WCS-2577	Fixed: Too many 'Failed to parse ip from session id: 11901070-HLS' logs	1fcff3da43076a990ebc9fbaadeab3e8d0b74602
5.2.548	05 Mar 2020	WCS-2571	Added: Add metric VIDEO_LOST	0ad6ef4757936036ebd2548a0433f04b03cc2119
5.2.547	05 Mar 2020	WCS-2576	Fixed: dtls0_u_a_match_substring matches empty strings in dtls0_u_a file	53cc9002d60e1a6addf1d7089504b6c2ee1aba8e

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5.2.543	05 Mar 2020	WCS-2559	Fixed: Sync a/v output of transcoders	7feb0314213a30bd433c1a46a7ffa05ce45a4bc2
5.2.541	05 Mar 2020	WCS-2533	Fixed: CDN Transcoder high value of blocked threads	49f28b7c040a3ef581df2fb2824dc57c575964d6
5.2.540	04 Mar 2020	WCS-2569	Fixed: Transcoder crash server	03d887b63afc3d5b26c1ac8f2a6252e2914467a9
5.2.539	04 Mar 2020	WCS-2570	Added: Add setting to match UA for DTLS by regex	8f1519a3557776d98cd8df3e5673f2afc47b75ee
5.2.534	02 Mar 2020	WCS-2556	Fixed: HLS: file descriptors are not closed	9cb84aea43ad4a3a33de98be7df120ac460cab92
5.2.533	27 Feb 2020	WCS-2557	Added: Split 'rtp_activity_video' and 'rtp_activity_detecting'	de7532d61d77e707dcb047d0f1ea302191c3eefd
5.2.531	27 Feb 2020	WCS-2532	Fixed: Decoding queues grow on transcoder node	b78ca5220384acc5971caf9619ac1e4440498e1a
5.2.529	26 Feb 2020	WCS-2541	Fixed: Safari doesn't play recording	109952d681a462ea6524d1d5860ca3e543c6c2fc
5.2.527	25 Feb 2020	WCS-2504	Fixed: Audio/video processor is not started for the stream	49995d7f3e4d3cf975895412e5865a7ee8711523
5.2.526	21 Feb 2020	OAM-55	Fixed: WCS 5.2.515 can't connect to OAM 1.0	df0698c3376464d2a204a981556f44a24e5174fe
5.2.521	20 Feb 2020	WCS-2545	Fixed: RTSP authentication issue	70946a3458cf1c7df1dc3fe6b814ebafa9faf31

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5.2.520	20 Feb 2020	WCS-2520	Fixed: WebRTC connection fails in Chrome Canary	f9759d047e388f61932486f951f83ab29dfe750b
5.2.519	20 Feb 2020	WCS-2505	Fixed: Empty reply from server on statistics request	8f8856b4245eea97486438393003b750ee0a1423
5.2.518	20 Feb 2020	WCS-2534	Added: Duplicate OAM metrics to Prometheus output	7ca7368ed0b83517144338022e957efdd92f21c8
5.2.515	18 Feb 2020	WCS-2509	Fixed: Server crash without any symptoms	ab9cd132fd510d743751dc0b073924b5be988e9b
5.2.514	17 Feb 2020	WCS-2531	Added: HLS append ACL key from master playlist to variants	662e352401ff9dcabc595e2d1e56eb562e4dfcbe
5.2.512	17 Feb 2020	WCS-2498	Added: Forced debug for all client sessions	865201bf60e2d960c75ad711c570adb0253461a1
5.2.508	13 Feb 2020	WCS-2482	Added: Stream synchronization statistic	3a819652f7c7a9244a87919f7fa8c081baa00bbf
5.2.506	13 Feb 2020	WCS-2513	Fixed: CDN group is not updated	77decc4b3e0727414e8240e8284cfb73f4fbbfe9
5.2.505	13 Feb 2020	WCS-2508	Fixed: Failed to normalize SPS	8f804f3f1f7dcf213cbe1f26e8b9056edd9c0f4
5.2.504	13 Feb 2020	WCS-2502	Fixed: Origin CDN threads blocked	ce7c32bf2cc5e4a241b27c10a583a90ed38ca627
5.2.503	12 Feb 2020	WCS-2514	Fixed: HLS master manifest and CDN ACL authentication	6803d0f9f70660c48f537d3512dc716b2c583ec7
		WCS-2517	Fixed: HLS high LA and heap grow	

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5.2.502	12 Feb 2020	WCS-2506	Added: Create manifest if stream not exist in HLS	c3836fbad709520fbe2348500d88d978677b7372
5.2.500	12 Feb 2020	WCS-2422	Added: Restrict access to WCS HTTP interfaces	d796deb116c36bb4eb7637bfa8ca8a98b3a96e0b
5.2.499	12 Feb 2020	WCS-2501	Fixed: CDN profiles updating too long	94c6517719862158ede3e2558e6fa518f091a6f7
5.2.497	06 Feb 2020	WCS-2494	Fixed: HLS high contention issue	ad3b0a5dcacc7fc671e1509c13f38809c1445814
5.2.496	06 Feb 2020	WCS-2486	Added: HLS server optimizations	eabd7c88a3102b75fc504292746d8d58e4d62da3
5.2.495	06 Feb 2020	WCS-2476	Fixed: CDN stream transcoded on multiple transcoder nodes 2	5c0dbf231c034f6556854c5d4fe12ae757b95bf5
5.2.491	05 Feb 2020	WCS-2495	Fixed: SIP as stream: unsynchronized audio	32b97d3353a2bd6d4faf54e1d7fc0d4d0dc0e011
5.2.488	05 Feb 2020	WCS-2489	Fixed: Improve transcoded quality for HLS streams	3d7f73e638a32e080af7feb1657f2a244b0cebd2
5.2.486	04 Feb 2020	WCS-2496	Fixed: HLS parsing manifest request issue	6250d2d5fad0a288e0aac4bd2444d4b5437cf623
5.2.485	04 Feb 2020	WCS-2460	Fixed: OpenH264 does not decode with enough speed	577f91201aa67c783f8d83d88d61823126b49b70
5.2.484	03 Feb 2020	WCS-2448	Added: ABR manifest support for HLS streams	6ce41ab94cfc b1e33d07ebf1 b1e22fa7d0858f1a

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5.2.483	03 Feb 2020	WCS-2450	Added: CDN internal channel monitoring	01a589906c4ec7abd2bb441e56a6e3a4422ad3db
5.2.481	30 Jan 2020	WCS-2479	Fixed: Mixer does not start properly	b8dadbeac87205833c5c1beb3a1e763ac97b8138
5.2.480	30 Jan 2020	WCS-2461	Added: CLI improvements	2d4c4cec227e0e94b924f1a749fd431b4dc76e07
5.2.479	28 Jan 2020	WCS-2360	Added: Set the stream name while pulling RTSP stream using REST API	08b5a3d3446285fd8be33fb7134b6e3274b5d02f
5.2.477	24 Jan 2020	WCS-2432	Fixed: Transcoding stat parameter query returns empty page	78b97d5676559fb8563db189e71547308d6832d7
5.2.476	24 Jan 2020	WCS-2469	Fixed: /cdn/show_redundant_transcodings response issue	561d3de2720c738dca6a0d8b2fe9f25166c71a76
5.2.475	24 Jan 2020	WCS-2463	Fixed: CDN Signaling problems after losing connection	ecc4f35bbc70cba4103e36a5ca2eeaba40aa43e1
5.2.474	21 Jan 2020	WCS-2267	Added: AV Mixer C optimization	68af1d7a55fe159034f0e6be343948b1fad35e3f
5.2.471	17 Jan 2020	WCS-2449	Fixed: CDN 2.3 version negotiation for backward compatibility	bf1bc0669ecac4c62f68801ec3301a1ce241a1d3
5.2.470	17 Jan 2020	WCS-2456	Fixed: Playback of RTSP stream with authentication fails	2912b0d6ebee1781c2d2ef07042361d1c8d0721
5.2.462	15 Jan 2020	WCS-2451	Fixed: CDN Origin does not send ACL update to Edge	330f13221a3e784f0a60c13d94de23518240b719

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5.2.461	15 Jan 2020	WCS-2452	Fixed: Playback as HLS fails	106f531d178d1a2e5b80ad1c5757b50544ce69fb
5.2.460	14 Jan 2020	WCS-2438	Fixed: Empty statistics page using non-H264 codec	a7a33d76b463073c9eb6f8cd99e2a6c8ad40a95a
5.2.458	10 Jan 2020	WCS-2409	Fixed: MP4 recording rotation file names should be based on stream time	c43a655ff941298904d59db2d8cfcfb9bd1fc738
5.2.454	08 Jan 2020	WCS-2436	Fixed: WebRTC HD stream playback problems under high load	062ff85d1653c1825b27c988396f4ce0de00877d
5.2.443	25 Dec 2019	WCS-2350	Added: Transcoder nodes monitoring	07ab04a059a3fc8b5c4d6f18822976815381e54a
5.2.441	24 Dec 2019	WCS-2430	Added: CDN Controller for transcoding nodes	eb852f1f47176bedcb027e4ba10b83545e2fdf37
5.2.440	24 Dec 2019	WCS-2416	Subscription to stream fails on CDN Edge though the stream is available	dc45a88e89820208e0b4394dd518ea36bd6a0ce1
5.2.439	24 Dec 2019	WCS-2426	Fixed: HLS provider created, but not initialized	efba3ab7b1acda5e109ab8ffcecb96efba69279c
		WCS-2428	Fixed: HLS token cache issues	
5.2.437	20 Dec 2019	WCS-2423	Fixed: RTMP video-only stream recording as VoD	cf32f1b94a3b95d5cfe2b01f9b24f42659ccf032
5.2.436	19 Dec 2019	WCS-2421	Added: Prevent non-authenticated access to HLS streams	6fa6b140e9904d417d5af70c8fcb1842b9c4dbc5

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5.2.434	18 Dec 2019	WCS-2415	Added: Add ability to set content-disposition header value	9f9f2daee84d5d0675e186a999b2125a7982c688
5.2.433	16 Dec 2019	WCS-2411	Fixed: Strict origin to transcoder grouping to prevent unnecessary transcoding	ef821465ab0d2b5718e551ca5940f3ee01fe21f2
5.2.432	16 Dec 2019	WCS-2408	Fixed: G729: server crash	4d8d1ee30441cd5a4c642ae1e8fde9e5b8c2e06d
5.2.431	15 Dec 2019	WCS-2391	Fixed: Port statistics query returns empty page on separate port	b1c6f7f22c85d38691d008b205c9fd6b55a449f4
5.2.430	12 Dec 2019	WCS-2407	Fixed: Incorrect displaying native encoders in the stats H.264/CUDA	13b7211d7f417ffc8b719f6839b84cff68021f74
5.2.429	12 Dec 2019	WCS-2388	Fixed: No audio in RTSP stream	c023b28862d8d270e145efac92e4c8cbd47bee0e
5.2.428	11 Dec 2019	WCS-2386	Fixed: Recording mp4 audio-only, AAC possibly invalid	89608b829ff4b285b036f7894ff6d6dfa752e9fe
5.2.421	09 Dec 2019	WCS-2384	Fixed: parse_system_stats=true: Prometheus displays WCS as down	1da6c3f2169930868308df0c6b923bad3c8a2839
5.2.420	05 Dec 2019	WCS-2387	Fixed: MSE edge crash	599c447d7227280a33da595e16a8729187873a47
5.2.419	04 Dec 2019	WCS-2385	Fixed: MSE edge ports leak	e681348386d59c7ae9ba9421d12cc1601af46d87

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5.2.418	04 Dec 2019	WCS-2313	Fixed: Pull stream from transcoder in another CDN group	f34893465d46a0c7a5df8c921dc8b12153fe4711
5.2.417	03 Dec 2019	WCS-2389	Added: Add WCAgents ports stat to Stat Controller	e05c9d7e8db5c35e81c30d4d9061825ccf78a7b9
5.2.416	28 Nov 2019	WCS-2328	Added: JSON and Prometheus statistics formats support	32aab7dc90527bfe2ffb4711090fe75c6613a2bb
5.2.415	28 Nov 2019	WCS-2366	Fixed: Set local IP to cdn_ip setting while first start in AWS EC2 instance	5a9e92678ecef40b175b491ab09702f53213df81
5.2.414	27 Nov 2019	WCS-2365	Fixed: Microsoft edge: no video from mixer stream	35b091c68fb28a0f65dcb87fd54d2251da83e003
5.2.412	26 Nov 2019	WCS-2372	Fixed: HLS preloader 720p is used for stream played per CDN profile with different aspect ratio	cb4e3ace8cabfc411cc103f58dc368cce5fbe749
5.2.409	22 Nov 2019	WCS-2357	Fixed: Detecting WebRTC network issues on playing client side	a59fb3135c8bb1c7d6d0f808cd4b36c7a222a1ee
5.2.408	22 Nov 2019	WCS-2339	Fixed: HLS preloader aspect ratio	882068ff94fb1e1fc136fd912334e4132849e65e
5.2.407	21 Nov 2019	WCS-2362	Fixed: License logger issues	7ac4c4c438e2261633bb42ffc74f5710f465ee
5.2.404	18 Nov 2019	WCS-2345	Added: CDN publish stream route on first keyframe	74966d2622e8738dc3f784ecc7596dfeaa3df802

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5.2.399	15 Nov 2019	WCS-2326	Added: Detect DTLS version supported by browser	b507b507ff5b e32a465c98d4 4c1c78f528cc b282
5.2.398	14 Nov 2019	WCS-2300	Added: Detecting network issues between WebRTC publishing client and server	e2590f323721 a2719daf6dc2 6cf6b4e320ed 0854
5.2.396	07 Nov 2019	WCS-2347	Added: HLS allow to disable preloader	81af43ea9536 aa5005d5a6a3 020ceff448d1 8adf
5.2.395	07 Nov 2019	WCS-1645	Fixed: WebRTC as HLS without video transcoding: video freeze	9a23c8a526ec 439a80216d74 e22e8be7e2f1 f61f
5.2.394	06 Nov 2019	WCS-2325	Fixed: Publisher synchronization shift issue	f852b621edf4f 9f16d637901e 852f615c2f17 00f
5.2.393	06 Nov 2019	WCS-2317	Fixed: Issues with push RTP stream to RTP URL	426e9db3d9ae b848d3989853 c603c0979670 8a3a
5.2.389	30 Oct 2019	WCS-2337	Fixed: Use instance Id as admin password in Amazon	06ee299d28b2 b353072d6e86 61c5dd49e9a2 94a2
5.2.387	25 Oct 2019	WCS-2331	Fixed: HLS concurrent start stream issue	18f135a4bbfa b79bbd403d87 8c00b20c8a54 8538
5.2.385	23 Oct 2019	WCS-2329	Fixed: HLS port 8445 is not listened	69f090009425 e34222ec2c43 a283ee782639 77ae
5.2.383	23 Oct 2019	WCS-2250	Test execution to be stable in TeamCity	4cea50c89f8e 4e5894c1735e 7ce788f2413d 2ffd
5.2.382	17 Oct 2019	WCS-2310	Fixed: Stream does not play properly on HLS, but works in WebRTC player	647d148341cc 5b666e2a721f e8330c6fca86 c4b3

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5.2.381	16 Oct 2019	WCS-2308	Fixed: HLS pre loader - keep default segments in jar	fb2f51ead94f3d84f2a9951832c7f958e0f38a45
5.2.379	15 Oct 2019	WCS-2281	Fixed: Data collection in client logs to parse RTMP stream dumps	cbfc4f70782daf658853f42200c71dc3cc49ecda
5.2.371	11 Oct 2019	WCS-2288	Fixed: First HLS subscriber does not play stream in iOS Safari	f7e488a3071d06b020f6aa1a53f8dc8b532ee638
5.2.369	11 Oct 2019	WCS-2258	Fixed: Bad recording quality, wrong metadata	8b7200e919815bf9a5ea3375c711217364458a55
5.2.368	09 Oct 2019	WCS-2276	Fixed: RTMP stream with fractional FPS playback issues	52eb45ac693b734e13b69b8874045e6a189f7007
5.2.362	01 Oct 2019	WCS-2291	Fixed: Rtmp ports leak	1f7dab6b1f33e5153c2450f3f241c265da3fec90
5.2.360	20 Sep 2019	WCS-2262	Fixed: MSE optimization server-side	230c023903b7fb9ca3ebdae59dc6b52ad88d3b2
5.2.359	20 Sep 2019	WCS-2273	Fixed: Refactoring webcallserver script	3f30c60917caf750578b4f7325cc7453e0ce4d0b
5.2.355	09 Sep 2019	WCS-2266	Fixed: inject stream to SIP leg: choppy audio after UPD ATE to PBX	54f93c10618afd5ef533eafbe6655bda6f529694
5.2.349	06 Sep 2019	WCS-2247	Fixed: Transcoder memory leak	1ad2ed2f2b829bba3a7a1d49b614c97066e3e01d
5.2.347	05 Sep 2019	WCS-2196	Fixed: CDN transcoder: video is played with low fps	51598a9a7e8f6565ae066771dfd58cc3f551db7d

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5.2.346	05 Sep 2019	WCS-2207	Fixed: Stream recording issues	1bfc6baa11498176b15c74ad9cfd3838227c17da
5.2.343	02 Sep 2019	WCS-2238	Added: Replace bouncycastle with java vanilla api	c4b2461891acae78d43901b63525aab3d69ade1c
5.2.341	02 Sep 2019	WCS-2256	Fixed: Transcoder is recognized as Origin requesting /show_nodes from Edge	b5800eef2aa6e5d5b6c4c0cabd39821549a830e6
5.2.340	02 Sep 2019	WCS-2253	Fixed: HLS: no video for first subscriber	556925738fed2d8b319d0bb8cfbd5d7b1fdd8e7
5.2.335	26 Aug 2019	WCS-1539	Fixed: UnknownHostException not logged	9d3e38dc6e0b2e0574e046af6a8a6e7de6bd9c6d
5.2.324	23 Aug 2019	WCS-2244	Added: REST method stream/find: add sessionId and appKey filters	4b052fd3fae4dea811b64745b5d671ddeb558d7
5.2.315	20 Aug 2019	WCS-2232	Fixed: CDN: transcoding profile for WSPlayer: playback fails (No common codecs)	27d78e83f0ee84d68af79a4db8e3ff11ae6b54fb
5.2.313	19 Aug 2019	WCS-2224	Fixed: HLS writer memory leak	f64ffcb7c497882519f331612fe347c12827be59
5.2.309	14 Aug 2019	WCS-2227	Fixed: Rollback report collection script	aba388dabc36f966ef5ad0680f8f9be15336993c
5.2.308	14 Aug 2019	WCS-2206	Fixed: Incorrect video resolution while transcoding to minimal width and height	4e7d6280fc014730ee718e34ecade9d9a1e012ef

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5.2.296	12 Aug 2019	WCS-2216	Fixed: Transcoder crash on H.264 encoding	6704bbb35586cdf58b82b8b9cb5e1ae6a468ec21
5.2.292	09 Aug 2019	WCS-2221	Fixed: Incomplete information in REST API inject_stream response	ac72cf22e01d8e260b395cc03adfdb978b5cd22d
5.2.291	09 Aug 2019	WCS-2205	Fixed: Metrics configuration query from OAM to WCS fails if no such metrics on WCS side	2b395d509addb3f9c8aa82e84ca82dfc739e5efb
5.2.289	08 Aug 2019	WCS-2210	Fixed: Pcap agent does not work in obfuscated builds	98486fd841a22e5f0b72cf19f9f6efca7c2cdf e2
5.2.283	07 Aug 2019	WCS-2195	demo auto inject mp4 into the incoming SIP call	5f1a75dd4e9c0944d77cdb4b964af54d3d577d1f
5.2.282	07 Aug 2019	WCS-2211	Fixed: Transcoder CDN node high load, CPU load limit and encoder limit does not work properly	b75498ed9c97685c9c1cfb7629c823df6bca8342
5.2.280	05 Aug 2019	WCS-2197	Fixed: No error returned if record file to download does not exist	63fbb440ea1484dc50dd66b3702309f98a24077c
5.2.267	30 Jul 2019	WCS-2198	AWS Marketplace - generate default admin password from instanceld	018743542d11cabedb2fdc2dd34e1fc68e676158
5.2.266	25 Jul 2019	WCS-2098	Test coverage for REST API - RestCDNControllerTest	78d92c941d9670f8ee7392a86fa906b3a71e49f2
5.2.265	25 Jul 2019	WCS-2188	Fixed: RTSP stream pulled from Epiphan Pearl 2 plays unsmoothly	6b23659c1bbcb64a1d0a8bd1015c62cd720d65d9b

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5.2.264	24 Jul 2019	WCS-2065	Test coverage for REST API - RestTranscoderControllerTest	4129264e863e3c2495ae7069352003755b13de65
5.2.263	23 Jul 2019	WCS-2179	Fixed: Log for "Failed by RTMP writer error"	d2cfc dab06221ad274b9382430297dde2ce9867a
5.2.259	22 Jul 2019	WCS-2172	Fixed: REST API /rest-api/recorder/find_all/startup /terminate	95b087054e0d27bffb33a543bfe4e4398e5bddb3
5.2.256	19 Jul 2019	WCS-2183	Added: Add metrics K, B and P frames	691e23ff8ee6cd9818311643d9296a9d58b4c9e1
5.2.253	19 Jul 2019	WCS-2160	Fixed: iOS Safari, WebRTC: no audio on first playback	0da5671f8f6efb2c85b6eef7a6440b1f047f457
5.2.252	18 Jul 2019	WCS-2159	Added: CDN group Origin-Transcoder	1ee1d4d22a432d206afb0d2f028bcd0cdc7e3730
5.2.246	17 Jul 2019	WCS-2115	Fixed: WebRTC, no video in TCP case	1e318cc8547fe71bbd5af05b72188e768210b95e
5.2.245	17 Jul 2019	WCS-2175	Fixed: Incorrect stats, PNG encoders mixed with video encoders	a6a96a96f611a81872da19a93c0d0d1500108de7
5.2.242	17 Jul 2019	WCS-2167	Fixed: SDP double rtpmap values	a77b5fd6520284209f6dece8b290d8352f0fec36
5.2.241	16 Jul 2019	WCS-1802	Added: Script fetching report with logs, jstack and optionally heap dump from customer servers	1c42c71a90a2e488968b2e7e23e4b3d2aebc460d

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5.2.239	16 Jul 2019	WCS-2086	Fixed: WCS 5.2 service web callserver update does not work	5716501f27de2242a481c335d04b21893cab92c9
5.2.238	16 Jul 2019	WCS-2128	Fixed: Transcoder node memory leak	a9369a424fa788f2d5a190ebaaa7b4ae76755e5a
5.2.237	16 Jul 2019	WCS-2162	Fixed: Publishing vp8 and h264 and playing without transcoding if both codecs are enabled on server	6b7146f93ae1354f056b965b985138e6f5944261
5.2.233	12 Jul 2019	WCS-2164	Fixed: Silent WCS install requires user action	b64f87700979707265b150cb6753e4e71f8760bd
5.2.224	05 Jul 2019	WCS-2147	Fixed: Java12 web interface issue	6f1fd56e0ebc713f8691abc52d47a26c70721514
5.2.223	05 Jul 2019	WCS-2127	Added: Automated stream snapshots	892a9265665bd9c5f9f28fde03183c94b947fa30
5.2.222	05 Jul 2019	WCS-2140	Added: StatController improvements	103fe2099ffae8fea793a93ed099fd3668ba3ff0
5.2.220	04 Jul 2019	WCS-2132	Fixed: Add REST methods for CDN node state management and settings limiting number of encoders	7ec6efa04b4d6021b4a29e1749d234b5a147ba21
5.2.219	03 Jul 2019	WCS-2135	Added: Add publishing bitrate settings webrtc_sdp_min_bitrate, webrtc_sdp_max_bitrate	d790e711592f0b828a52333471b5282b4cc8d8be2

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5.2.218	03 Jul 2019	WCS-2031	Fixed: OpenH264 decoder not working	8f21c85f64fdd851990708fb58686bb573c3426b
5.2.217	01 Jul 2019	WCS-2071	Fixed: CDN profile add or modify REST request: 400 Bad Request should be returned on attempt to pass string for a parameter requiring integer	d99f806ff93be5c635270de7b67e91f424ec93b0
5.2.214	27 Jun 2019	WCS-2084	Fixed: Record audio only WebRTC stream	2181b4534da0ee034d92d718bf66182f80b4a60c
5.2.213	27 Jun 2019	WCS-2105	Added: AWS MediaConvert for Inject Stream Files	84010b55b1c22b65ef22db69ff5c119bf8a65ece
5.2.212	26 Jun 2019	WCS-2125	Fixed: WCS - add setting wsoam_hostname= overriding hostname for WCS OAM	8efc1979d07c0d4a931fb25ae0b7467ff1cde076
5.2.211	26 Jun 2019	WCS-2103	Fixed: Repeated inject of stream into call: injected video deteriorates	5e48361544f48aeb601f2eb6a1318ebf44b1a411
5.2.209	21 Jun 2019	WCS-2104	Fixed: WCS OAM alarm and hostname issues	325538b00ec1191e448d4093afdc40011c46e45b
5.2.205	20 Jun 2019	WCS-2048	Fixed: Vod live loop and WebRTC with short mp4 files	a1d739f166adfc2486b98001ea67b08880639395
5.2.203	19 Jun 2019	WCS-2060	Fixed: WCS OAM - NACK does not match in MediaDevices and server stats	c59164fa741777534a4d7a8d07bee39d65991ec2

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5.2.201	19 Jun 2019	WCS-2082	Added: CDN ACL support for HLS playback	e0d9ec9d9b57dc10fca67d43fa7d263866ad6482
5.2.198	19 Jun 2019	WCS-2078	Implement multi-output mixer	71518d1c7f9d79006404c53a3135e60a0b20abe3
5.2.196	19 Jun 2019	WCS-2088	Fixed: call/inject_sound: resampler is not removed when call is finished	937e14429608c411b5ef4cfb45291d8e831bad97
5.2.190	14 Jun 2019	WCS-2006	Fixed: Handle RTSP 302 response Moved Temporarily	7d0b3b0ccab7f30f1bad657f922aa4f6661c397b
		WCS-2074	Auto-reconnect RTMP pushed stream	
5.2.188	12 Jun 2019	WCS-1983	Fixed: VoD stream injected into call: last frame may be displayed after the video is finished	c3c2c9db62408e0fd782754a4c9210cb16daf33
5.2.187	11 Jun 2019	WCS-2073	Fixed: DTLS connection issues	1f9f80fd1a648cdde881030e425028545b4a9594
5.2.183	05 Jun 2019	WCS-2058	Refactoring waiting values in REST tests	f322b7b5a875c35726c547fbfad057dcdc390bd5
5.2.182	05 Jun 2019	WCS-2056	Test coverage for REST API - RestVODControllerTest	2d26a4ea2678ff5ffc8a2508ec69c2f79ca70058
5.2.178	05 Jun 2019	WCS-2036	Added: Change transcoding profiles on the fly	770ae5231c927bc745661a4bf8e1340856bb6aa8
5.2.177	05 Jun 2019	WCS-2050	Fixed: crf (quality), bitrate limit is ignored	ce67cbc5124b19e0d0747a684d5f5c24c59745d9

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5.2.175	04 Jun 2019	WCS-1906	Added: Add D TLS 1.2 support	ddf5396db023f3126e2f6b1111374a72c018e101
5.2.173	31 May 2019	WCS-2038	Test coverage for REST API - RestPullRtmpStreamControllerTest	3387f5dde3918ad21c49a75f9e38cc41a595b146
5.2.172	31 May 2019	WCS-2051	Test coverage for REST API - RestPullStreamControllerTest	b58f02060150c821d2e4a8860c957d902a3904d9
5.2.163	30 May 2019	WCS-2047	Fixed: WCS OAM issues	c9dc5cd823345c924fa59f4e5039ff6b0a74e74f
5.2.162	30 May 2019	WCS-2049	Fixed: Memory leak on WebRTC TCP connections	4ff3cac962529ca342e7ce92a3d765cfc0da8d99
5.2.160	30 May 2019	WCS-2037	Fixed: SIP call shouldn't be established if reserved characters are used in SIP login or SIP auth name	5e7509e83494e8a873490846e156b57c2bf6d87b
5.2.158	28 May 2019	WCS-2028	Added: Add ability to terminate idled stream	3b3a69f989cd0d2206e9ac076b79fed1d775b124
5.2.156	28 May 2019	WCS-2037	Fixed: Long duration SIP call issues	5a7b3981e1c4d05b92049607afb39162c0c3950f
5.2.155	28 May 2019	WCS-2040	Fixed: 1-2 seconds macroblocks using H.264 FF encoding in CDN	285f4ec48de8e59af1e9bcd5cac76a47cf5acbb5
5.2.151	24 May 2019	WCS-1997	Fixed: Test coverage for REST API - RestConnectionControllerTest	edeeb6df6fbd7eab8acf5d89b96003eed8874051

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5.2.146	24 May 2019	WCS-1991	Added: Monitoring general parameters: bitrate, resolution	816e365710ef fdebf0a805d1 6d4df769276c a076
5.2.145	24 May 2019	WCS-2001	Fixed: REST API /call/find added filter on field caller	cf2467e8cec9 da90ff93bea5 8fd3f1ed81e7 242f
5.2.144	24 May 2019	WCS-1984	Fixed: 5.2.109 Can't run with OpenJDK 11	a1dc2472a182 72038f592d34 d074b3ebef25 db3f
5.2.143	24 May 2019	WCS-1996	Fixed: RTSP stream: playing but no video	a1198407a014 16148a10fb1d 3b4c12b541f9 edb7
5.2.142	24 May 2019	WCS-1889	Fixed: Rotation recordings decreasing size	10d7b46d945a 80ecb730e084 3256e885f7c2 9612
5.2.141	24 May 2019	WCS-2035	Fixed: Picture width is set to default while transcoding by profile	695dd3b9c177 4084418c12f0 113c7596ddcc 4d51
5.2.140	23 May 2019	WCS-2026	Fixed: Incoming video aspect rate change during transcoding	107e5bd19e8a 3ebdaff73f1f1 fe782a385aec 05e
5.2.137	23 May 2019	WCS-2033	Fixed: rest-api/call/startup throws NPE	2d5ef49d83ce adec5ae6c626 874888ed9088 1eb9
5.2.136	21 May 2019	WCS-1923	Added: WebRTC stream picture orientation changing in iOS 12.2	61ab494e2d28 d258cb4ac32c 114543eaa1eb febe
		WCS-2002	Fixed: Subscriber is not removed if the client disconnects before PLAYING status	

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5.2.132	17 May 2019	WCS-2013	Fixed: TCP playback consumes a lot of RAM, GC pauses grow	7d790585645b945a3271f14676d5e390c6ea1a30
5.2.130	16 May 2019	WCS-2004	Fixed: WebRTC out of sync issue from Google Pixel 3 Chrome and iOS 12.2 Safari	d9a44c2535b6a2af158ccbdae0f7214cfe2356b1
5.2.127	09 May 2019	WCS-2000	Fixed: ICE TCP transport: server hangs up on closing TCP socket	a81fe897a1b8c4c0d2c293d71ca2ed65ffd8aaf7
5.2.124	08 May 2019	WCS-1939	Test coverage for REST API - RestStreamController	6f69df8a4b0991744af086410eca677ed6e6225e
5.2.123	08 May 2019	WCS-1976	Fixed: Test coverage for REST API - RestTransponderControllerTest	0b965ada94a25253e789f30be0df426c6c3c8907
5.2.120	07 May 2019	WCS-1831	Fixed: Mixer sync issue, no video in recording	8f1dfcaca57352bd0c052528aba7cac7f70b2ae7
		WCS-1987	Fixed: CDN - Prevent transcoding overload	
5.2.115	02 May 2019	WCS-1947	Added: CDN Transcoding round robin	029b46e411ad204fb665705bab23f73579923692
5.2.113	02 May 2019	WCS-1977	Fixed: Freezes in VOD stream from AWS S3	68c84ea412670fbb7c901df76806f3f871f81fe1
5.2.111	01 May 2019	WCS-1970	Fixed: MediaSession leaks during initialization process	896a36386037bde0703cef671cfe50fccca20fc9d
5.2.109	29 Apr 2019	WCS-1938	Fixed: RTMP push SSL support	22aa987c95d167d04aac4171796f971274bcf680

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5.2.108	25 Apr 2019	WCS-1962	Fixed: 5.2.88 Anomaly high LA in peak load	3a8140311c1e80789857b139189acf4e74af6e2d
5.2.107	25 Apr 2019	WCS-1953	Fixed: Demo examples are not available if demo user account is removed	670ee2bd3b360623c144ea62c0002442dbfb3e17
5.2.100	23 Apr 2019	WCS-1946	Fixed: Reduce 'show cdn-routes' output	f9ac7a309d7b40577247fefe758f4db9d8d22d3b
5.2.96	18 Apr 2019	WCS-1951	Fixed: Can't bind TURN server	47689da75e66e7e4451339f711d4fa7547a614b6
5.2.95	18 Apr 2019	WCS-1942	Fixed: CDN transcoding profiles sample config	36e5fc2df46fd52a8622dc28b924211c5f50a5e
5.2.94	18 Apr 2019	WCS-1941	Fixed: Transcoder created by REST API: NPE	5274ed02986fd00a5a8ac3ee7f37eef4fc0be7d
5.2.93	18 Apr 2019	WCS-1935	Fixed: Stream recording: resampler is not released	7906d597b7e888f68474838e8084f4fc551fe372
5.2.88	17 Apr 2019	WCS-1936	Fixed: Transcoder stream fails by RTP activity in case CDN is enabled	cdc33b3a86ed520c0dedc642ecc8596d9ec5986a
5.2.86	17 Apr 2019	WCS-1933	Fixed: CDN: transcoding node crash when stream is unpublished	2a6003096fbc e429faac25d675a40b16ea34e895
5.2.85	16 Apr 2019	WCS-1940	Fixed: Enable_extended_logging false does not work for WCS3Handler	a34be4de0fc673012bda045e1227287239c411ac
5.2.84	15 Apr 2019	WCS-1916	Added: Autoscaling by height	e309d1988f34308b25f19040985af0d9e3b8fcf8

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5.2.83	15 Apr 2019	WCS-1931	Fixed: Transcoder add preset param to Encoder config	6d477d1d90e44fb2765dd68f3d3b8b0d41446ba3
5.2.80	12 Apr 2019	WCS-1925	Fixed: SIP trunking doesn't work in latest version	de6a6e1baa9a3a46607a9e1ac43ab52d8765b8d3
5.2.79	12 Apr 2019	WCS-1904	Fixed: Transcoder profile parameters priority	37b99396a86ce9111a2c5d1ece3550441cf0d96d
5.2.78	12 Apr 2019	WCS-1902	Fixed: Transcoder scalability	f5f299bc2594f3792da78d19163d3374572cd3a9
5.2.77	12 Apr 2019	WCS-1926	Fixed: rest-api/stream/stop Recording writes over the done record instead of stopping recording	b7c08bb2d9de18fd6e8237410f47585d63a3f793
5.2.74	12 Apr 2019	WCS-1857	Fixed: Media ports leak	044b9d03cea4768cc9151485309acee5eef7b490
5.2.71	11 Apr 2019	WCS-1910	Fixed: RTMP published stream leak	15b8924ae3e035bae077df8ea97da4af23d360a4
5.2.69	10 Apr 2019	WCS-1911	Added: Allow to set RTMP client IP addresses	8edd59ec2623ebc94bbb3455368535bb9905ff37
5.2.68	10 Apr 2019	WCS-1899	Fixed: VP8+opus stream recording issues	2933742c213f869d0753f9ccdc1ed9b4e17ec3f3
5.2.67	10 Apr 2019	WCS-1892	Added: RTSP interleaved mode: dynamic channels	73634ad5ef14bc47607125b504da717629eae654
5.2.66	10 Apr 2019	WCS-1914	Fixed: WebRTC over TCP streaming Chrome issues	24d650c383bf758e0053e2c399b1542d81c8780c

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5.2.64	04 Apr 2019	WCS-1830	Fixed: Transcoder stream: AAC	7007aa10cbfc d69002d80e78 0e682f059c53 db5c
5.2.63	03 Apr 2019	WCS-1888	Added: aclAuth - pass in stream name for RTMP URLs	448526bb022f 010317642d6c e7a13422387c 91e9
5.2.62	03 Apr 2019	WCS-1774	Fixed: Transcoder CDN 2.1 - Preserving aspect ratio	3b2a5f7e9283 90f7d0f5d1bfc 7dc7e2ddc395 702
5.2.61	02 Apr 2019	WCS-1891	Fixed: CDN: in 1st min after Transcoder node startup can't play by profile stream published before the Transcoder startup	163f4ffe04f92 23b083ccaad2 6dadda3f0d39 c9a
5.2.60	02 Apr 2019	WCS-1881	Fixed: Record hook script issues	a2973f8c651e f26fdad47e44 da0e7989ac27 423f
5.2.58	01 Apr 2019	WCS-1862	Fixed: Recording files VOD playback issues	83a66c7f355d 3f7435f35271 d358b3e036f9 3852
5.2.57	29 Mar 2019	WCS-1842	Fixed: VOD captured from a long-duration file: Out of memory: Map failed	75a6a3efa946 a1a48036ca7e 617c9fae5cbe 835e
		WCS-1865	Fixed: WCS3 client compatibility issue with WCS 5.2, RTMP	
5.2.56	28 Mar 2019	WCS-1882	Fixed: RTSP can't play	04902902c168 14a3668c72fe fffc7e889df73 ba7
5.2.55	27 Mar 2019	WCS-1883	Fixed: Demo user not disabling	8d76860c44a1 119ce385d315 1b75ffaf9c179 e6a

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5.2.53	27 Mar 2019	WCS-1876	Fixed: WCS Agents should not appear on Origin-servers	0157f1e8e5db4fa80d2651dc dcde1a8d8fe3aa68
		WCS-1879	Fixed: Internal TURN server: failure by ICE timeout	
5.2.52	27 Mar 2019	WCS-1871	Fixed: Flash Streaming: publishing is stopped after a few unpublish-publish switches	e8f0b748e45d9eebddc6ab00f8302e6f3d2b26b9
5.2.50	26 Mar 2019	WCS-1875	Fixed: REST get relation (tree) of connection	stream
5.2.49	26 Mar 2019	WCS-1872	Fixed: Origin leaked stream in CDN routes	2fb8c224868993c752975849179264f1e8bcc820
5.2.47	25 Mar 2019	WCS-1861	Fixed: Recording start time does not change for record parts when rotation is enabled	ae46fe73308683d51e3ab5ef44cc30fdb979697e
5.2.46	25 Mar 2019	WCS-1846	Fixed: Flash Streaming: no video if resume playback without relogin after different stream is published with same name as the previously played	583a6d22b05e69d4a5f7683e2593ecf4cd75de4e
		WCS-1874	Two streams with the same hash code	
5.2.43	20 Mar 2019	WCS-1828	Added: SIP trunk: additional configuration parameters	8f5cd52fb337f352b7fe0b2526b5782cb597d3a9

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		WCS-1835	Fixed: WebRTC transport priority issue	
5.2.42	20 Mar 2019	WCS-1863	Fixed: Descriptor leaks in the dashboard UI	0ed929a4268de65617e6f886e90404d70ce75f91
5.2.41	19 Mar 2019	WCS-1834	Fixed: Pass metadata WebRTC > RTMP properly	47aa78b31b614011ad9986a798e11cd807ec0608
5.2.39	19 Mar 2019	WCS-1858	Fixed: RTSP authentication issue, NPE	a88fd4715dd1f0c6df928b6282cbc32fc8f1223f
5.2.37	18 Mar 2019	WCS-1833	Fixed: Unexpected handshake chunk when publishing RTMP from Flash Streaming	c8da04c48b6f04cd1769c08f34be073aac4252d2
5.2.36	15 Mar 2019	WCS-1374	Fixed: SIP call: Transcoding of G722: audio distorted	91637036adf7be898c2d6e61d82b9907fa64ba6a
		WCS-1855	Fixed: CDN ACL add constraint - do not set ACL on non-published streams	
5.2.34	14 Mar 2019	WCS-1849	Fixed: MP4-recording progressive download in Chrome	6bf9c0534906a2ea39479f1dfd6723135f37099b
5.2.31	13 Mar 2019	WCS-1794	Fixed: Error "Failed to encode compound RTP packet to send"	0d183d28690e00478beff27a3412896b7fba9285
5.2.30	13 Mar 2019	WCS-1819	Fixed: Switch publishing RTMP stream to private mode in CDN	adfd51cc455733057754366a246919e742ae25b6

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5.2.29	13 Mar 2019	WCS-1826	Fixed: Incoming SIP as RTMP: connection to RTMP server is not closed when call is terminated	fe230928eefe65de52eecfe23d2ffc2578e26614
5.2.28	11 Mar 2019	WCS-1838	Fixed: Stabilize work with two mixers cascade	e122d24194842b8417775ddaca4b3e7c38fbb25b
5.2.27	11 Mar 2019	WCS-1824	Added: Stream recording, overwrite using REST API, rotation issue	78296dd918b45b410452a4adb3f65e0cb3746d92
5.2.25	07 Mar 2019	WCS-1817	Added: Remove manager from 5.2	fa27065ccbd7888f25f11f2e9d338ef97a60c828
5.2.24	07 Mar 2019	WCS-1804	Fixed: CDN, edge node: Can publish RTMP stream with the same name as that of stream pulled from origin node	985fc4187cb93381bf4dc43b63b2dc45f43ab694
5.2.23	04 Mar 2019	WCS-1829	Fixed: Doesn't close mixer if stop all stream	1c9f8130098442354871964d91d716d915c0cd73
		WCS-1832	Fixed: Stream publishing issues with mixer automatic creation and recording	
5.2.22	04 Mar 2019	WCS-1806	Fixed: Set up service to systemd	df89c6bf5b5da310b18bf0f64a8188a50abcd44d
5.2.21	01 Mar 2019	WCS-1791	Fixed: RTMP video only stream, sends metadata hasAudio=1	3d92d19c2769d157cbd5898b30e7f1fdd8a0da3d

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		WCS-1820	Fixed: WebRTC set transport from Web SDK	
5.2.18	01 Mar 2019	WCS-1733	Fixed: Transcoder stream: no audio, video may freeze	b67b54121c22606707994dc35fbfaa336f5e3b17
5.2.17	28 Feb 2019	WCS-1786	Fixed: Native resource: transcoder still displayed after mixer stops	bfda36670e042b512b517e6bc82236eefb6f1a4f
5.2.15	28 Feb 2019	WCS-1805	Fixed: Embed player does not work in 5.2	88e8c05c476bb770d428b26a4814e9fddcf137bf
5.2.11	27 Feb 2019	WCS-1814	SIP trunk: call not established	04f25bd11a288f487f5e8a88daf04e1a19e76449
5.2.10	26 Feb 2019	WCS-1764	Fixed: Pass record details to startStream REST request	feb74d07b681c23801534566bc3507cf343f0d25
		WCS-1797	Fixed: VOD in Firefox 65: lost frames	
5.2.9	26 Feb 2019	WCS-1749	Fixed: call/inject_sound by callId: Sink not ready	36f4051fcf8cef9043e338c526a0a75ce361218
		WCS-1803	Fixed: RTMP republishing: stream name issue	
5.2.7	22 Feb 2019	WCS-1086	Added: RTCP synchronization automatic detection	fd2bc05bbfdfa0fb95efcaa2b4bfc792d7061ab2
5.2.6	21 Feb 2019	WCS-1739	Added: mp4 sequential reading	2025f671d6ea056a37ec5fe8ef4ca8c06ae06673
5.2.5	21 Feb 2019	WCS-1757	Added: SIP as Stream case for incoming SIP calls	50d95a7435b6fd2191872f3df0c09c297c6d66ea

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5.2.3	18 Feb 2019	WCS-1775	Prepare 5.2 release candidate	0f1a38d49d99 dae226b3239d 0333511d496b c3d7