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Contents

Intellectual Property Rights 2
Foreword 2
Modal verbs terminology 2
Foreword 12
1 Scope 13
2 References 13
3 Definitions, symbols and abbreviations 13
3.1 Definitions 13
3.2 Symbols 14
3.3 Abbreviations 14
4 General 15
4.1 MCVideo media plane overview 15
4.1.1 Transmission Control 15
4.1.1.1 General 15
4.1.1.2 On-network transmission and reception control 15
4.1.1.3 Off-network transmission control 17
4.1.1.4 Determine on-network effective priority 17
4.1.1.5 Determine off-network effective priority 18
4.2 Internal structure of media plane control entities 18
4.2.1 Controlling MCVideo function 18
4.2.2 MCVideo client 20
4.2.3 Participating MCVideo function 21
4.2.3.1 General 21
4.2.3.2 Internal structure of the participating MCVideo function 21
4.2.3.3 The roles of the participating MCVideo function 22
4.2.3.3.1 For the transmission control procedures 22
4.3 The media plane control channel 22
4.3.1 General 22
4.3.2 Control channel realization 22
4.3.3 Establishing a media plane control channel 22
4.3.3.1 General 22
5 Functional entities 23
5.1 General 23
5.2 MCVideo client 23
5.2.1 Introduction 23
5.2.2 Transmission participant in on-network mode 24
5.2.3 Transmission participant in off-network mode 24
5.3 Controlling MCVideo function 24
5.4 Participating MCVideo function 24
6 On-network transmission control 25
6.1 General 25
6.2 Transmission participant procedures 25
6.2.1 Transmission participant procedures at MCVideo session initialization 25
6.2.2 Transmission participant procedures at MCVideo call release 25
6.2.3 Transmission participant procedures at MCVideo call modification 26
6.2.4 Transmission participant state transition diagram for basic transmission control operation 26
6.2.4.1 General 26
6.2.4.2 State: 'Start-stop' 27
6.2.4.2.1 General 27
6.2.4.2.2 MCVideo call initiated, originating MCVideo user 27
6.2.4.2.3 MCVideo call established, terminating MCVideo user 27
6.2.4.3 State: 'U: has no permission to transmit' 28

6.2.4.3.1 General 28
6.2.4.3.2 Send Transmission Request message (Click Transmission send button) 28
6.2.4.3.3 Receive Transmission Granted message (R: Transmission Granted) 28
6.2.4.3.4 Receive Media reception notification message (R: Media reception notification) 28
6.2.4.4 State: 'U: pending request to transmit' 29
6.2.4.4.1 General 29
6.2.4.4.2 Receive Transmission rejected message (R: Transmission rejected) 29
6.2.4.4.3 Timer T100 (Transmission request) expired 29
6.2.4.4.4 Timer T100 (Transmission Request) expired N times 29
6.2.4.4.5 Receive Queue Position Info message (R: Queue Position Info) 29
6.2.4.4.6 Receive Transmission Granted message (R: Transmission Granted) 30
6.2.4.5 State: 'U: has permission to transmit' 30
6.2.4.5.1 General 30
6.2.4.5.2 Send RTP media packets (S: RTP media) 30
6.2.4.5.3 Send Transmission end message (Click Transmission end button) 30
6.2.4.5.4 Receive Transmission end message (R: Transmission end request) 31
6.2.4.5.5 Receive Transmission Revoked message (R: Transmission Revoked) 31
6.2.5.5.6 Receive Media reception notification message (R: Media Reception notification) 31
6.2.4.6 State: 'U: pending release of transmission' 31
6.2.4.6.1 General 31
6.2.4.6.2 Timer T101 (Transmission Release) expired 31
6.2.4.6.3 Timer T101 (Transmission release) expired N times 32
6.2.4.6.4 Receive Transmission End Response message (R: Transmission end response) 32
6.2.4.6.5 Send Transmission End Response message (S: Transmission end response) 32
6.2.4.7 In any state 32
6.2.4.7.1 General 32
6.2.4.7.2 Receive MCVideo call release – step 1 (R: MCVideo call release - 1) 33
6.2.4.8 State: 'Call releasing' 33
6.2.4.8.1 General 33
6.2.4.8.2 Receive MCVideo call release – step 2 (R: MCVideo call release - 2) 33
6.2.4.9 State: 'U: queued transmission' 33
6.2.4.9.1 General 33
6.2.4.9.2 Receive Queue Position Info message (R: Queue Position Info) 33
6.2.4.9.3 Send Queue Position Request message (S: Queue Position Request) 34
6.2.4.9.4 Send Transmission cancel request message (S: Transmission Cancel Request) 34
6.2.4.9.5 Recieve Transmission cancel response message (R: Transmission Cancel Response) 34
6.2.4.9.6 Recieve Transmission cancel request notify message (R: Transmission Cancel Request Notify) 34
6.2.4.9.7 Timer T102 (Transmission Queue Position Request) expired 34
6.2.4.9.8 Timer T102 (Transmission Queue Position Request) expired N times 35
6.2.4.9.9 Receive Transmission Granted message (R: Transmission Granted) 35
6.2.5 Transmission participant state transition diagram for basic reception control operation 35
6.2.5.1 General 35
6.2.5.2 State: 'Start-stop' 36
6.2.5.2.1 General 36
6.2.5.2.2 MCVideo call established, terminating MCVideo user 37
6.2.5.3 State: 'U: has no permission to receive' 37
6.2.5.3.1 General 37
6.2.5.3.2 Receive Media transmission notification (R: Media Transmission Notification) 37
6.2.5.3.3 Send Receive Media Request message (Click video receive button) 37
6.2.5.3.4 Receive Media transmission notification message (R: Media transmission notification) 38
6.2.5.4 State: 'U: pending request to receive' 38
6.2.5.4.1 General 38
6.2.5.4.2 Reception of Receive media response (rejected) message (R: RM response (rejected)) 38
6.2.5.4.3 Timer T103 (Receive media request) expired 38
6.2.5.4.4 Timer T103 (Receive Media Request) expired N times 38
6.2.5.4.5 Reception of Receive media response (granted) message (R: RM response (granted)) 39
6.2.5.5 State: 'U: has permission to receive' 39
6.2.5.5.1 General 39
6.2.5.5.2 Receive RTP media packets (R: RTP media) 39
6.2.5.5.3 Media reception end request message (Click video reception end button) 39
6.2.5.5.4 Receive Media reception override notify message (R: Media Rx override notify) 39

6.2.5.5.5 Receive Media reception end request message (R: MRE request) 40
6.2.5.5.6 Receive Media transmission notification message (R: Media transmission notification) 40
6.2.5.6 State: 'U: pending reception release' 40
6.2.5.6.1 General 40
6.2.5.6.2 Timer T104 (Receive Media Release) expired 40
6.2.5.6.3 Timer T104 (Receive media release) expired N times 40
6.2.5.6.4 Receive Media Reception End Response message (R: MRE response) 41
6.2.5.6.5 Send Media Reception End Response message (S: MRE response) 41
6.2.5.7 In any state 41
6.2.5.7.1 General 41
6.2.5.7.2 Receive MCVideo call release – step 1 (R: MCVideo call release - 1) 41
6.2.5.7.3 Receive Transmission end notify message (R: Transmission end notify) 42
6.3 Transmission control server procedures 42
6.3.1 General 42
6.3.2 Controlling MCVideo function procedures at MCVideo call initialization 42
6.3.2.1 General 42
6.3.2.2 Initial procedures 42
6.3.3 MCVideo transmission control procedures at MCVideo call release 43
6.3.4 Transmission control server state transition diagram for general transmission control operation 44
6.3.4.1 General 44
6.3.4.2 State: 'Start-stop' 45
6.3.4.2.1 General 45
6.3.4.2.2 MCVideo call initialization 45
6.3.4.3 State: 'G: Transmit Idle' 45
6.3.4.3.1 General 45
6.3.4.3.2 Enter the 'G: Transmit Idle' state 45
6.3.4.3.3 Receive Transmission Media Request message (R: Transmission Media Request) 46
6.3.4.3.4 Timer T2 (Transmit Idle) expired 46
6.3.4.3.5 Timer T1 (Inactivity) expired 47
6.3.4.3.6 Receive an implicit Transmission request (R: Implicit Transmission request) 47
6.3.4.4 State: 'G: Transmit Taken' 47
6.3.4.4.1 General 47
6.3.4.4.2 Enter the 'G: Transmit Taken' state 48
6.3.4.4.5 Receive RTP media packets (R: RTP media) 48
6.3.4.4.6 Receive Transmission End Request message (R: Transmission End Request) 48
6.3.4.4.7A Receive Transmission Media Request message without pre-emptive priority (R: Transmission Media Request) 49
6.3.4.4.7 Receive Transmission Media Request message with pre-emptive priority (R: pre-emptive Transmission Media Request) 49
6.3.4.4.8 Receive Transmission request message from permitted transmission participant (R: Transmission Media Request) 50
6.3.4.4.9 Timer T4 (Transmission Grant) expired 50
6.3.4.4.10 Timer T4 (Transmission Grant) expired N times 50
6.3.4.4.11 Permitted MCVideo client release (R: client release) 50
6.3.4.4.12 Receive an implicit Transmission request (R: Implicit Transmission request) 50
6.3.4.5 State: 'G: pending Transmission Revoke' 51
6.3.4.5.1 General 51
6.3.4.5.2 Enter the 'G: pending Transmission Revoke' state 51
6.3.4.5.3 Receive RTP media packets (R: RTP media) 51
6.3.4.5.4 Receive Transmission End Request message (R: Transmission End Request) 51
6.3.4.5.5 Void 52
6.3.4.5.6 Void 52
6.3.4.6 In any state 52
6.3.4.6.1 General 52
6.3.4.6.2 Receive MCVideo call release - 1 52
6.3.4.7 State: 'Releasing' 52
6.3.4.7.1 General 52
6.3.4.7.2 Receive MCVideo call release - 2 52
6.3.5 Transmission control server state transition diagram for basic transmission control operation towards the transmission participant 53
6.3.5.1 General 53
6.3.5.2 State: 'Start-stop' 55

6.3.5.2.1 General 55
6.3.5.2.2 SIP Session initiated 55
6.3.5.3 State: 'U: not permitted and Transmit Idle' 59
6.3.5.3.1 General 59
6.3.5.3.2 Enter state 'U: not permitted and Transmit Idle' 59
6.3.5.3.3 Send Media Transmission Notify message (S: Media Transmission Notify) 59
6.3.5.3.4 Receive Transmission Media Request message (R: Transmission Media Request) 59
6.3.5.3.5 Send Transmission Grant message (S: Transmission Grant) 60
6.3.5.3.6 Send Transmission Reject message (S: Transmission Reject) 60
6.3.5.3.7 Receive Transmission End Request message (R: Transmission End Request) 60
6.3.5.3.8 Receive RTP media packets (R: media) 61
6.3.5.3.9 Receive an implicit Transmission request (R: Implicit Transmission request) 61
6.3.5.3.10 Send Transmit Idle message (S: Transmit Idle) 61
6.3.5.4 State 'U: not permitted and transmit taken' 62
6.3.5.4.1 General 62
6.3.5.4.2 Enter state 'U: not permitted and Transmit Taken' 62
6.3.5.4.3 Send Transmit Idle message (S: Transmit Idle) 62
6.3.5.4.4 Receive Transmission Media Request message (R: Transmission Media Request) 62
6.3.5.4.5 Receive Transmission End Request message (R: Transmission End Request) 65
6.3.5.4.6 Receive RTP media packets (R: media) 67
6.3.5.4.7 Send Transmission Queue Position Info message (R: Transmission Queue Position Request) 67
6.3.5.4.8 Receive an implicit Transmission request (R: Implicit Transmission request) 68
6.3.5.4.9 Send Transmission Grant message (S: Transmission Grant) 68
6.3.5.4.10 Send Media Transmission Notify message (S: Media Transmission Notify) 68
6.3.5.5 State: 'U: permitted' 68
6.3.5.5.1 General 68
6.3.5.5.2 Enter state 'U: permitted' 68
6.3.5.5.3 Receive Transmission End Request message (R: Transmission End Request) 69
6.3.5.5.4 Send Transmit Idle message (S: Transmit Idle) 69
6.3.5.5.5 Send Transmission Revoke message (S: Transmission Revoke) 69
6.3.5.5.6 Receive RTP media packets (R: media) 69
6.3.5.5.7 Receive Transmission Media Request message (R: Transmission Media Request) 69
6.3.5.5.8 Send RTP Media (S: media) 69
6.3.5.5.9 Send Media Transmission Notify message (S: Media Transmission Notify) 70
6.3.5.6 State: 'U: pending Transmit Revoke' 70
6.3.5.6.1 General 70
6.3.5.6.2 Enter state 'U pending Transmit Revoke' 70
6.3.5.6.3 Timer T3 (Transmission Revoke) expired 70
6.3.5.6.4 Receive RTP media packets (R: media) 70
6.3.5.6.5 Receive Transmission End Request message (R: Transmission End Request) 70
6.3.5.6.6 Send Transmit Idle message (S: Transmit Idle) 71
6.3.5.6.7 Send Media Transmission Notify message (S: Media Transmission Notify) 71
6.3.5.7 State 'U: not permitted but sends media' 71
6.3.5.7.1 General 71
6.3.5.7.2 Enter state 'U: not permitted but sends media' 71
6.3.5.7.3 Timer T3 (Transmission Revoke) expired 72
6.3.5.7.4 Receive Transmission End Request message (R: Transmission End Request) 72
6.3.5.8 In any state 73
6.3.5.8.1 General 73
6.3.5.8.2 Receive MCVideo call release – 1 73
6.3.5.9 State: 'Releasing' 73
6.3.5.9.1 General 73
6.3.5.9.2 Receive MCVideo call release - 2 73
6.3.6 Transmission control server state transition for general reception control 74
6.3.6.1 General 74
6.3.6.2 State: 'Start-stop' 75
6.3.6.2.1 General 75
6.3.6.2.2 MCVideo call initialization 75
6.3.6.3 State: 'Gr: Reception Idle' 75
6.3.6.3.1 General 75
6.3.6.3.2 Enter the 'Gr: Reception Idle' state 75
6.3.6.3.3 Receive Media Transmission Notify message (R: Media Transmission Notify) 75

6.3.6.3.4 Void 76
6.3.6.3.5 Timer T5 (Reception Inactivity) expired 76
6.3.6.3.6 Reception of Receive Media Request message (R: Receive Media Request) 76
6.3.6.3.7 Receive RTP media (R: RTP media) 76
6.3.6.4 State: 'Gr: Reception accepted' 77
6.3.6.4.1 General 77
6.3.6.4.2 Enter the 'Gr: Reception Accepted' state 77
6.3.6.4.3 Reception of Receive Media Request message (R: Receive Media Request) 77
6.3.6.4.4 Reception of Receive Media End Request message (R: Receive Media End Request) 77
6.3.6.4.5 Reception of Receive Media End Response (Granted) message (R: Receive Media End Response) 78
6.3.6.4.6 Reception of Receive Media End Response (Rejected) message (R: Receive Media End Response) 78
6.3.6.4.7 Receive RTP media (R: RTP media) 78
6.3.6.4.8 Timer T6 (Reception Granted) expires 78
6.3.6.4.9 Timer T6 (Reception Granted) expired N times 79
6.3.6.5 State: 'Gr: Any state' 79
6.3.6.5.1 General 79
6.3.6.5.2 Receive MCVideo call release - 1 79
6.3.6.6 State: 'Gr: Releasing' 79
6.3.6.6.1 General 79
6.3.4.6.2 Receive MCVideo call release - 2 79
6.3.7 Transmission control server state transition for basic reception control operations towards the transmission participant 79
6.3.7.1 General 79
6.3.7.2 State: 'Start-stop' 82
6.3.7.2.1 General 82
6.3.7.2.2 SIP Session initiated 82
6.3.7.3 State: 'U: not permitted to receive' 83
6.3.7.3.1 General 83
6.3.7.3.2 Enter state 'U: not permitted to receive' 83
6.3.7.3.3 Send Media Transmission Notification message (S: Media Transmission Notification) 83
6.3.7.3.4 Reception of Receive Media Request message (R: Receive Media Request) 83
6.3.7.3.5 Receive Media Reception End Response message (R: Media Reception End Resonse) 84
6.3.7.3.6 Send Receive Media Response (Granted) message (S: Receive Media Response (Granted)) 84
6.3.7.4 State: 'U: permitted to receive' 84
6.3.7.4.1 General 84
6.3.7.4.2 Enter state 'U: permitted to receive' 84
6.3.7.4.3 Send RTP media packets (S: RTP media) 84
6.3.7.4.4 Receive Media Reception End Request message (R: Media Reception End Request) 84
6.3.7.4.5 Send Media Transmission Notification message (S: Media Transmission Notification) 85
6.3.7.4.6 Send Media Reception Override Notify message (S: Media Reception Override Notify) 85
6.3.7.4.7 Send Transmit End Notify message (S: Transmit End Notify) 85
6.3.7.4.8 Send Media Reception End Request message (S: Media Reception End Request) 85
6.3.7.4.9 Send Media Reception End Response message (S: Media Reception End Response) 85
6.4 Participating MCVideo function transmission control procedures 86
6.4.1 General 86
6.4.2 Receive transmission control messages 86
6.4.3 Receive RTP media packets (R: RTP Media) 86
6.4.4 Release of session 87

7 Off-network MCVideo service media plane procedures 87
7.1 General 87
7.2 Transmission participant procedures for single arbitrator approach 88
7.2.1 Transmission participant procedures at MCVideo session initialisation 88
7.2.1.2 Determine off-network transmission priority 88
7.2.2 Transmission participant procedures at MCVideo call release 90
7.2.3 Transmission participant state diagram – basic operation 90
7.2.3.1 General 90
7.2.3.2 State: 'Start-stop' 91
7.2.3.2.1 General 91
7.2.3.2.2 MCVideo call established – originating MCVideo user 92

7.2.3.2.3 MCVideo group call established – terminating MCVideo user....92
7.2.3.2.4 MCVideo private call established – terminating MCVideo user....92
7.2.3.2.5 Send Transmission Request message (click video transmission send button)....92
7.2.3.2.6 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken)....93
7.2.3.2.7 Receive Transmission Granted message (R: Transmission Granted to other)....93
7.2.3.2.8 Receive RTP media (R: RTP media)....93
7.2.3.2.9 MCVideo broadcast call established – terminating MCVideo user....93
7.2.3.3 State: 'O: silence'....93
7.2.3.3.1 General....93
7.2.3.3.2 Send Transmission Request message (click video transmission send button)....94
7.2.3.3.3 Receive RTP media (R: RTP media)....94
7.2.3.3.4 Receive Transmission Granted message (R: Transmission Granted to other)....94
7.2.3.3.5 Receive Transmission Request message (R: Transmission Request)....94
7.2.3.3.6 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken)....95
7.2.3.3.7 Timer T230 (Inactivity) expired....95
7.2.3.4 State: 'O: has no permission'....95
7.2.3.4.1 General....95
7.2.3.4.2 Sending Transmission Request message (click video transmission send button)....95
7.2.3.4.3 Receive Transmission Release message (R: Transmission Release)....96
7.2.3.4.4 Receive Transmission Arbitration Release message (R: Transmission Arbitration Release)....96
7.2.3.4.5 Timer T203 (End of RTP media) expired....96
7.2.3.4.6 Receive Transmission Granted message (R: Transmission Granted to other)....96
7.2.3.4.7 Receive RTP media (R: RTP media)....97
7.2.3.4.8 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken)....97
7.2.3.4.9 Receive Transmission Revoked message (R: Transmission Revoked)....97
7.2.3.5 State: 'O: transmission arbitration'....98
7.2.3.5.1 General....98
7.2.3.5.2 Send RTP Media packets (S: RTP Media)....98
7.2.3.5.3 Receive Transmission Release message (R: Transmission Release)....98
7.2.3.5.4 Receive Transmission Request message (R: Transmission Request)....98
7.2.3.5.5 Send Transmission Arbitration Release message (click video transmission end button with empty transmitter list)....99
7.2.3.5.6 Send Transmission Arbitration Release message (click video transmission end button with non-empty transmitter list)....99
7.2.3.5.7 Receive Transmission Request message with pre-emption indication and revoking self (R: Transmission Request with pre-emption)....99
7.2.3.5.8 Receive Transmission Request message with pre-emption indication and revoking a transmitter (R: Transmission Request with pre-emption)....100
7.2.3.5.9 Transmission time limit warning (Timer T206 expires)....101
7.2.3.5.10 Transmission time limit reached with transmitter(s) in transmitter list (Timer T207 expires with transmitter(s))....101
7.2.3.5.11 Transmission time limit reached with no transmitter in transmitter list (Timer T207 expires with no transmitter)....101
7.2.3.5.12 Receive RTP media (R: RTP media)....101
7.2.3.5.13 Timer T205 (Transmission Granted) expired (timer T205 expired)....102
7.2.3.5.14 Timer T205 (Transmission Granted) expired N times (Timer T205 expired N times)....102
7.2.3.5.15 Timer T203 (End of RTP media) expired....102
7.2.3.6 State: 'O: has permission'....103
7.2.3.6.1 General....103
7.2.3.6.2 Send RTP Media packets (S: RTP Media)....103
7.2.3.6.3 Receive Transmission Release message (R: Transmission Release)....103
7.2.3.6.4 Send Transmission Release message (click video transmission end button)....103
7.2.3.6.5 Receive RTP media (R: RTP media)....103
7.2.3.6.6 Transmission time limit warning (Timer T206 expires)....104
7.2.3.6.7 Transmission time limit (Timer T207 expires)....104
7.2.3.6.8 Timer T203 (End of RTP media) expired....104
7.2.3.6.9 Receive Transmission Granted message (R: Transmission Granted to other)....104
7.2.3.6.10 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken)....104
7.2.3.6.11 Receive Transmission Arbitration Release message with next arbitrator to me (R: Transmission Arbitration Release with next arbitrator to me)....105
7.2.3.6.12 Receive Transmission Revoked message (R: Transmission Revoked)....105

7.2.3.6.13 Receive Transmission Arbitration Release message with next arbitrator to other (R: Transmission Arbitration Release with next arbitrator to other) 105
7.2.3.7 State: 'O: pending request' 105
7.2.3.7.1 General 105
7.2.3.7.2 Receive RTP media (R: RTP media) 106
7.2.3.7.3 Receive Transmission Rejected message (R: Transmission Rejected) 106
7.2.3.7.4 Send Transmission Release message (click video transmission end button with no transmitter) 106
7.2.3.7.5 Send Transmission Release message (click video transmission end button with transmitter) 107
7.2.3.7.6 Send Transmission Arbitration Taken message (Timer T201 expired N times) 107
7.2.3.7.7 Receive Transmission Granted message (R: Transmission Granted to me) 107
7.2.3.7.8 Receive Transmission Granted message with next arbitrator (R: Transmission Granted with next arbitrator to me) 108
7.2.3.7.9 Receive Transmission Granted message (R: Transmission Granted to other) 108
7.2.3.7.10 Timer T201 (Transmission Request) expired (Timer T201 expired) 108
7.2.3.7.11 Receive Transmission Request message (R: Transmission request) 108
7.2.3.7.12 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken) 109
7.2.3.7.13 Receive Transmission Release message (R: Transmission Release) 109
7.2.3.7.14 Receive Transmission Revoked message (R: Transmission Revoked) 109
7.2.3.8 State: 'O: pending delegated' 109
7.2.3.8.1 General 109
7.2.3.8.2 Receive RTP media (R: RTP Media) 109
7.2.3.8.3 Timer T205 (Transmission Granted) expired (timer T205 expired) 110
7.2.3.8.4 Timer T205 (Transmission Granted) expired N times with transmitter(s) in the transmitter list (Timer T205 expired N times and transmitter in transmitter list) 110
7.2.3.8.5 Timer T205 (Transmission Granted) expired N times with no transmitter in the transmitter list (Timer T205 expired N times and no transmitter in transmitter list) 111
7.2.3.8.6 Click Video transmission send button 111
7.2.3.8.7 Receive Transmission Release message (R: Transmission Release) 111
7.2.3.8.8 Receive Transmission Request message (R: Transmission Request) 111
7.2.3.8.9 Receive Transmission Arbitration Taken message (R: Transmission Arbitration Taken) 111
7.2.3.8.10 Timer T208 (Transmission Arbitration Release) expired (timer T208 expired) 112
7.2.3.8.11 Timer T208 (Transmission Arbitration Release) expired N times with transmitter(s) in the transmitter list (Timer T208 expired N times and transmitter in transmitter list) 112
7.2.3.8.12 Timer T208 (Transmission Arbitration Release) expired N times with no transmitter in the transmitter list (Timer T208 expired N times and no transmitter in transmitter list) 113
7.2.3.9 In any state 113
7.2.3.9.1 General 113
7.2.3.9.2 Receive MCVideo call release (R: MCVideo call release) 113

8 Communication release media plane procedures 113

9 Coding 113
9.1 Introduction 113
9.1.1 General 113
9.1.2 RTCP: APP message format 114
9.1.3 Application specific data field 115
9.1.4 Handling of unknown messages and fields 115
9.2 Transmission control 116
9.2.1 Introduction 116
9.2.2 Transmission control messages 116
9.2.2.1 General 116
9.2.3 Transmission control specific fields 117
9.2.3.1 Introduction 117
9.2.3.2 Transmission Priority field 118
9.2.3.3 Duration field 119
9.2.3.4 Reject Cause field 119
9.2.3.5 Queue Info field 119
9.2.3.6 Granted Party's Identity field 120
9.2.3.7 Permission to Request the Transmission field 120
9.2.3.8 User ID field 121
9.2.3.9 Message Sequence Number field 121

9.2.3.10 Message Type field 122
9.2.3.11 Transmission Indicator field 122
9.2.3.12 Source field 123
9.2.3.13 Track Info field 123
9.2.3.14 Queued User ID field 124
9.2.3.15 Queue Size field 124
9.2.3.16 SSRC field 125
9.2.4 Transmission Request message 125
9.2.5 Transmission Granted message 126
9.2.6 Transmission Rejected message 127
9.2.6.1 General 127
9.2.6.2 Rejection cause codes and rejection cause phrase 128
9.2.7 Transmission Released message 129
9.2.8 Transmission Arbitration Taken message 130
9.2.9 Transmission Arbitration Released message 131
9.2.10 Transmission Revoked message 132
9.2.10.1 General 132
9.2.10.2 Transmission revoked cause codes and revoked cause phrases 133
9.2.12 Queue Position Info message 134
9.2.13 Media transmission notification 135
9.2.14 Receive media request 136
9.2.15 Receive media response 137
9.2.15.1 General 137
9.2.6.2 Rejection cause codes and rejection cause phrase 138
9.2.16 Media reception notification 139
9.2.17 Transmission cancel request 139
9.2.18 Transmission cancel response 140
9.2.19 Transmit media cancel request notify 141
9.2.20 Transmission end request 141
9.2.21 Transmission end response 142
9.2.22 Remote Transmission request 143
9.2.23 Remote Transmission response 144
9.2.24 Remote Transmission cancel request 144
9.2.25 Remote Transmission cancel response 145
9.2.26 Media reception end request 146
9.2.27 Media reception end response 147
9.2.28 Media reception override notification 147
9.2.29 Transmission end notify 149

10 Media plain handling for MBMS 149

11 Configurable parameters 150
11.1 Timers 150
11.1.1 Timers in the on-network transmission participant 150
11.1.2 Timers in the off-network transmission participant 153
11.1.3 Timers in the transmission control server 156
11.2 Counters 159
11.2.1 Counters in the on-network transmission participant 159
11.2.2 Counters in the off-network transmission participant 160
11.2.3 Counters in the controlling MCVideo function 160

12 Extensions within the present document 161
12.1 Session description types defined within the present document 161
12.1.1 General 161
12.1.2 SDP "fmtp" attribute for MCVideo 162
12.1.2.1 General 162
12.1.2.2 Semantics 162
12.1.2.3 Syntax 162

13 Media plane security 163
13.1 General 163
13.2 Derivation of SRTP/SRTCP master keys 164
13.3 Media plane encryption and decryption 165

13.3.1 General....165
13.3.2 The participating MCVideo function....165
13.3.3 The MCVideo client....166
13.3.4 The controlling MCVideo function....170

14 SDP offer/ answer procedures....171
14.1 General....171
14.2 Generating an SDP offer....171
14.2.1 General....171
14.2.2 "mc_queueing" fmtp attribute....171
14.2.3 "mc_priority" fmtp attribute....172
14.2.4 "mc_granted" fmtp attribute....172
14.2.5 "mc_implicit_request" fmtp attribute....172
14.3 Generating the SDP answer....172
14.3.1 General....172
14.3.2 "mc_queueing" fmtp attribute....172
14.3.3 "mc_priority" fmtp attribute....172
14.3.4 "mc_granted" fmtp attribute....173
14.3.5 "mc_implicit_request" fmtp attribute....173
14.4 Offerer processing of the SDP answer....173
14.5 Modifying the media plane control channel....173
14.6 The use of SDP offer / answer procedures in off-network mode....174
14.6.1 General....174
14.6.2 fmtp attribute "mc_queueing"....174

Annex A (informative): Change history....175

History....176

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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x the first digit:

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y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document specifies the media plane control and transmission control protocols and interactions with the media needed to support Mission Critical Video (MCVideo) service.

The MCVideo service and its associated media plane control protocols can be used for public safety applications and also for general commercial applications (e.g., utility companies and railways).

The present document is applicable to User Equipment (UE) supporting MCVideo client, and MCVideo server supporting media distribution function and transmission control server.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 24.281:"Mission Critical Video (MCVideo) call control; Protocol specification".

[3] IETF RFC 3550: "RTP: A Transport Protocol for Real-Time Applications".

[4] IETF RFC 3711: "The Secure Real-time Transport Protocol (SRTP)".

[5] 3GPP TS 24.481: "Mission Critical Services (MCS) group management Protocol specification".

[6] 3GPP TS 24.483: "Mission Critical Services (MCS) Management Object (MO)".

[7] 3GPP TS 24.484: "Mission Critical Services (MCS) configuration management protocol specification".

[8] 3GPP TS 33.180: "Security of the mission critical service".

[9] IETF RFC 3830: "MIKEY: Multimedia Internet KEYing".

[10] IETF RFC 6509: "MIKEY-SAKKE: Sakai-Kashar Key Encryption in Multimedia Internet KEYing (MIKEY)".

[11] 3GPP TS 23.281: "Functional architecture and information flows to support Mission Critical Video (MCVideo); Stage 2".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

Transmission request queue: The transmission request queue used by the transmission control server to queue received Transmission Request messages.