Seychelles Test Drive

Baie Lazare Phase-2 Report



DRIVE TEST ROUTE

Phase-1 Dates- 10th Oct 2024



Region: Southern

Island: Mahé

Drive Test Distance: 50.15 kms

Drive Test Duration: 03 hours,25 minutes,38 seconds

Phase-2 Dates- 28th Oct 2024



Route Name: Mahe

District Name: Baie Lazare

Region: Southern

Island: Mahé

Drive Test Distance: 46.19 kms

Drive Test Duration: 03 hours,37 minutes,58 seconds



VOICE EXECUTIVE SUMMARY

Phase-1

Short Call Findings:

- The Call Setup Success Rate for Airtel is (97.53%), while for Operator
 CWS it is (94.04%).
- The Call Setup Time for Airtel is (6.43s), while for Operator CWS it is (8.71s)

Long Call Findings :

- The Call Retainability for Airtel is (98.41%), while for CWS it is (92.59%).
- The MOS quality observed for Airtel is (3.06), and for CWS, it is (3.35).

Phase-2

Short Call Findings:

- The Call Setup Success Rate for Airtel is (98.56%), while for Operator CWS it is (92.13%).
- The Call Setup Time for Airtel is (6.63s), while for Operator CWS it is (7.92s)

Long Call Findings :

- The Call Retainability for Airtel is (95.83%), while for CWS it is (98.48%).
- The MOS quality observed for Airtel is (3.16), and for CWS, it is (3.44).



4G PREFERRED DATA TEST – EXECUTIVE SUMMARY

Phase-1

4G Preferred Data Findings:

- Airtel SFTP DL is (12.17 Mbps), while SFTP UL is (4.13 Mbps), CWS SFTP DL is (6.94 Mbps), while SFTP UL is (3.59 Mbps)
- Airtel HTTP DL is (19.44 Mbps), HTTP Capacity DL is (38.45 Mbps) ,HTTP UL is (5.78 Mbps) , and HTTP Capacity UL is (12.83 Mbps).
- CWS HTTP DL is (8.13 Mbps), HTTP Capacity DL is (19.13 Mbps) ,HTTP UL is (5.06 Mbps) , and HTTP Capacity UL is (12.05 Mbps).
- On live web page testing for browsing, <u>www.shein.com</u> took (7.58s), <u>www.nbs.gov.sc</u> took (19.75s), and <u>www.sbc.sc</u> took (19.29s) on Airtel.
- On live web page testing for browsing, <u>www.shein.com</u> took (7.74s), <u>www.nbs.gov.sc</u> took (15.41s), and <u>www.sbc.sc</u> took (18.82s) on CWS.
- On static browsing, Kepler Webpage took (4.92s), and Kepler Mobile took (2.46s) on Airtel.
- On static browsing, Kepler Webpage took (5.29s), and Kepler Mobile took (3.04s) on CWS.
- YouTube average resolution in Airtel is (1059.40) pixels.
- YouTube average resolution in CWS is (1008.61) pixels.
- Airtel scored 48.47% in Carrier Aggregation (CA).
- CWS scored 25.18% in Carrier Aggregation (CA).

Phase-2

4G Preferred Data Findings:

- Airtel SFTP DL is (9.82 Mbps), while SFTP UL is (4.53 Mbps), CWS SFTP DL is (6.62 Mbps), while SFTP UL is (3.77 Mbps)
- Airtel HTTP DL is (14.55 Mbps), HTTP Capacity DL is (34.89 Mbps), HTTP UL is (7.08 Mbps), and HTTP Capacity UL is (14.43 Mbps).
- CWS HTTP DL is (7.98 Mbps), HTTP Capacity DL is (22.66 Mbps), HTTP UL is (5.53 Mbps), and HTTP Capacity UL is (12.44 Mbps).
- On live web page testing for browsing, <u>www.shein.com</u> took (7.68s), <u>www.nbs.gov.sc</u> took (17.76s), and <u>www.sbc.sc</u> took (18.14s) on Airtel.
- On live web page testing for browsing, <u>www.shein.com</u> took (8.32s), <u>www.nbs.gov.sc</u> took (16.62s), and <u>www.sbc.sc</u> took (20.86s) on CWS.
- On static browsing, Kepler Webpage took (5.10s), and Kepler Mobile took (2.08s) on Airtel.
- On static browsing, Kepler Webpage took (5.13s), and Kepler Mobile took (3.25s) on CWS.
- YouTube average resolution in Airtel is (1065.83) pixels.
- YouTube average resolution in CWS is (1034.90) pixels.
- Airtel scored 50.34% in Carrier Aggregation (CA).
- CWS scored 19.78% in Carrier Aggregation (CA).



3G PREFERRED DATA TEST - EXECUTIVE SUMMARY

Phase-1

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3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.79 Mbps), while SFTP UL is (1.11 Mbps), CWS SFTP DL is (3.96 Mbps), while SFTP UL is (0.91 Mbps)
- Airtel HTTP DL is (4.74 Mbps), HTTP Capacity DL is (4.93 Mbps) ,HTTP UL is (1.60 Mbps) , and HTTP Capacity UL is (3.75 Mbps).
- CWS HTTP DL is (3.02 Mbps), HTTP Capacity DL is (9.40 Mbps) ,HTTP UL is (1.34 Mbps) , and HTTP Capacity UL is (3.96 Mbps).
- On live web page testing for browsing, <u>www.shein.com</u> took (11.41s), <u>www.nbs.gov.sc</u> took (13.58s), and <u>www.sbc.sc</u> took (17.26s) on Airtel.
- On live web page testing for browsing, <u>www.shein.com</u> took (9.82s), <u>www.nbs.gov.sc</u> took (10.44s), and <u>www.sbc.sc</u> took (11.18s) on CWS.
- On static browsing, Kepler Webpage took (4.88s), and Kepler Mobile took (2.05s) on Airtel.
- On static browsing, Kepler Webpage took (7.89s), and Kepler Mobile took (2.79s) on CWS.
- YouTube average resolution in Airtel is (1007.20) pixels.
- YouTube average resolution in CWS is (1020.75) pixels.

Phase-2

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.49 Mbps), while SFTP UL is (1.22 Mbps), CWS SFTP DL is (2.97 Mbps), while SFTP UL is (0.96 Mbps)
- Airtel HTTP DL is (4.28 Mbps), HTTP Capacity DL is (6.34 Mbps), HTTP UL is (1.67 Mbps), and HTTP Capacity UL is (4.06 Mbps).
- CWS HTTP DL is (2.80 Mbps), HTTP Capacity DL is (8.59 Mbps), HTTP UL is (1.67 Mbps), and HTTP Capacity UL is (3.95 Mbps).
- On live web page testing for browsing, <u>www.shein.com</u> took (9.92s), <u>www.nbs.gov.sc</u> took (11.94s), and <u>www.sbc.sc</u> took (14.89s) on Airtel.
- On live web page testing for browsing, <u>www.shein.com</u> took (8.86s), <u>www.nbs.gov.sc</u> took (9.27s), and <u>www.sbc.sc</u> took (11.94s) on CWS.
- On static browsing, Kepler Webpage took (5.26s), and Kepler Mobile took (2.31s) on Airtel.
- On static browsing, Kepler Webpage took (5.49s), and Kepler Mobile took (2.67s) on CWS.
- YouTube average resolution in Airtel is (1031.95) pixels.
- YouTube average resolution in CWS is (1057.81) pixels.

TESTING METHODOLOGY

Short Call	
Call Duration	10 Seconds
Setup and Release phase	30 seconds
Minimum pause between calls	30 seconds

Long Call	
Call Duration	120 Seconds
Setup and Release phase	30 seconds
Minimum between calls	30 seconds

DATA	Test Type and Timeout	Technology 3G Preferred	Technology 4G Preferred
	POP always o	n. ICMP PAYLOAD PING 800 BYTES	
1	FILE TRANSFER DOWNLOAD	FTP DL (3MB)	FTP DL (5MB)
	135s	wait 10s	wait 10s
2	FILE TRANSFER UPLOAD	FTP UL (1MB)	FTP UL (3MB)
	135s	wait 10s	wait 10s
3	FILE TRANSFER DOWNLOAD	HTTP Get (3MB)	HTTP Get (5MB)
	135s	wait 10s	wait 10s
4	FILE TRANSFER UPLOAD	HTTP Put (1MB)	HTTP Put (3MB)
	135s	wait 10s	wait 10s
5	ICMP PING 32 BYTES	Ping (32 bytes) *5	Ping (32 bytes) *5
		wait 10s	wait 10s
6	YOUTUBE STREAMING	Video: YouTube 60sec	Video: YouTube 60sec
	95 seconds	wait 10s	wait 10s
7	KEPLER WEB BROWSING	HTTPS Browsing: Kepler	HTTPS Browsing: Kepler
	45s	wait 10s	wait 10s
8	LIVE WEB BROWSING	www.shein.com, www.nbs.gov.sc, www.sbc.sc	www.shein.com, www.nbs.gov.sc, www.sbc.sc
	45s	wait 10s	wait 10s
9	KEPLER MOBILE WEB BROWSING	HTTPS Browsing: Kepler Mobile	HTTPS Browsing: Kepler Mobile
	45s	wait 10s	wait 10s
10	ICMP PING 32 BYTES	Ping (32 bytes) 5 www.google.com	Ping (32 bytes) 5 www.google.com
		wait 10s	wait 10s
11	FILE TRANSFER-CAPACITY DOWNLOAD	HTTP Get (500MB) Multiple files	HTTP Get (500MB) Multiple files
	10s fixed duration	wait 10s	wait 10s
12	FILE TRANSFER-CAPACITY UPLOAD	HTTP Put (500MB)-Multiple Files	HTTP Put (500MB)-Multiple Files
	10s fixed duration	wait 10s	wait 10s



VOICE TEST KPI STATISTICS (Short Call)

Phase-2

Rank

CWS

2

2

2

2

2

2

Short Ca	all Statistics							Short Ca	ll Stat	istic	S				
Short Call Scenario	Operator 1	Оре	erator 2					Short Call Scenario	Oper	ator 1	L C	perator	2		
Voice KPIs	Airtel		cws					Voice KPIs	Ai	rte		CWS			
Call Attempt	243		218		6-11 6-t	.		Call Attempt	2	78		254			
Call Failed	6		13	USCS	= Call Setup : R=Unsucces:	success rate sful call setu	p ratio	Call Failed		4		20			
Call Connected	237		205	CST=	CST=Call setup time Call Setup Success Ratio >97% CRR= Call retainability ratio DCR=Dropped-call rate MOS=Mean Opinion Score Drop Call Ratio<2			Call Connected	2	74		234	-		
CSSR[%]	97.53	9	94.04	CRR=				CSSR[%]	98	.56		92.13			
USCSR[%]	2.47		5.96	DCR= MOS				DCR=Dropped-call rate MOS=Mean Opinion Score USCSR[%] Drop Call Ratio<2 CST [s] Alerting		USCSR[%]	1.	44		7.87	
CST [s] Alerting	6.43		8.71	Drop						6.	63		7.92		
CST [s]Connected	6.71		8.89					CST [s]Connected	6.	91		8.13			
			Operators		ors Rank					Operato		Ra	31		
Call Setup Tir	me (s)		Airtel	CWS	Airtel	CWS		Call Setup Time (s)	A	irtel	CWS	Airtel			
Overall CST (until ringing/alertir	ng)		6.43	8.71	1	2	Overall CST (until r	inging/alerting)	6	.63	7.92	1			
CS calls CST (until ringing/alertir	ng)		7.33	11.27	1	2	CS calls CST (until I	inging/alerting)	6	.81	12.68	1			
CSFB calls CST (until ringing/ale	rting)		6.32	8.49	1	2	CSFB calls CST (unt	il ringing/alerting)	6	.61	7.67	1			
Overall CST (until Connect/Conn	ect Acknowledge)		6.71	8.89	1	2	Overall CST (until (Connect/Connect Acknowledge)	6	.91	8.13	1			
CS calls CST (until Connect/Conr	nect Acknowledge)		7.58	11.46	1	2	CS calls CST (until (Connect/Connect Acknowledge)	7	.17	12.94	1			
CSFB calls CST (until Connect/Co	onnect Acknowledg	e)	6.60	8.67	1	2	CSFB calls CST (unt	il Connect/Connect Acknowledge) 6	.87	7.87	1			



VOICE TEST KPI STATISTICS (Long Call)

Phase-1

	Long Call Statistics								
Long Call Sc	enario	Opera	tor 1	0	perator 2				
Voice K	Voice KPIs				CWS				
Call Conne	ected	63			54				
Call Drop	ped	1			4				
Call Comp	leted	62			50				
CRR[%	5]	98.4	1		92.59				
DCR[%	6]	1.5	1.59						
MOS		3.0	6	3.35					
	Airtel short call	CWS short call	Airtel ca	long Il	CWS long call				
CSFB Calls	216	194	59)	52				
CS Calls	27	24	4		2				
Handover Statistics				мо	CWS MO				
Hando	54		118						
Hand	2		0						
Hando	over Success		52		118				
F	IOSR %		96.3	30 100.00					

Long Call Statistics								
Long Call Sc	enario	Operate	or 1	0	perator 2			
Voice KI	Pls	Airte	Airte		cws			
Call Connected		72			66			
Call Drop	ped	3			1			
Call Comp	leted	69			65			
CRR[%]	95.83	3		98.48			
DCR[%	DCR[%]			4.17				
MOS		3.16	3.16		3.44			
	Airtel short call	CWS short call	Airtel ca	long II	CWS long call			
CSFB Calls	241	235	70)	64			
CS Calls	37	19	2		2			
Hando	ver Statistics		Airtel	мо	CWS MO			
Hando	Handover Attempt				90			
Hande	over Failure		3		2			
Hando	over Success		38		88			
Н	IOSR %		92.68 97.78					



DATA TEST KPI STATISTICS(4G Preferred)

			Pha	se-1		Phase-2			
	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
	SFTP DL (Mbps)	12.17	6.94	1	2	9.82	6.62	1	2
ER	SFTP UL(Mbps)	4.31	3.59	1	2	4.53	3.77	1	2
ANSFI	HTTP DL(Mbps)	19.44	8.13	1	2	14.55	7.98	1	2
LE TR	HTTP UL(Mbps)	5.78	5.06	1	2	7.08	5.53	1	2
E	HTTP Capacity DL(Mbps)	38.45	19.13	1	2	34.89	22.66	1	2
FILE	HTTP Capacity UL(Mbps)	12.83	12.05	1	2	14.43	12.44	1	2
	Overall Browser DL Time (s)	10.99	10.03	2	1	10.35	10.84	1	2
	Kepler Webpage DL Time (s)	4.92	5.29	1	2	5.10	5.13	1	2
NSER	Mobile Kepler Webpage DL Time (s)	2.46	3.04	1	2	2.08	3.25	1	2
BROV	www.shein.com Webpage DL Time (s)	7.58	7.74	1	2	7.68	8.32	1	2
	www.nbs.gov.sc Webpage DL Time (s)	19.75	15.41	2	1	17.76	16.62	2	1
YOUTUBE FILE TRANSFER Image: Control of the second seco	www.sbc.sc Webpage DL Time (s)	19.29	18.82	2	1	18.14	20.86	1	2
NCY	Avg Latency (ms)	273.98	207.12	2	1	291.61	200.39	2	1
ГАТЕ	Median Latency (ms)	181	202	1	2	307	192	2	1
BE	YouTube Access Time (s)	5.67	3.42	2	1	5.45	2.08	2	1
UTU	YouTube Average Resolution (pixels)	1059.4	1008.61	1	2	1065.83	1034.90	1	2
۲ ۲	YouTube Success Ratio [%]	97.30	91.43	1	2	97.56	91.89	1	2



4G PREFERRED THROUGHPUT FILE ACCESS

Phase-1

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
	Success	33	31	97.06	100.00
SFIP DL	Failure	1	0	2.94	0.00
	Success	36	32	100.00	96.97
SFTP UL	Failure	0	1	0.00	3.03
	Success	36	34	97.30	100.00
HIPDL	Failure	1	0	2.70	0.00
	Success	36	33	94.74	91.67
HIPOL	Failure	2	3	5.26	8.33
	Success	33	32	100.00	100.00
	Failure	0	0	0.00	0.00
	Success	28	27	82.35	93.10
HITP Capacity UL	Failure	6	2	17.65	6.90

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
	Success	41	32	100.00	94.12
SFIP DL	Failure	0	2	0.00	5.88
	Success	40	31	97.56	93.94
SFTP UL	Failure	1	2	2.44	6.06
	Success	41	34	100.00	91.89
HIPDL	Failure	0	3	0.00	8.11
	Success	39	34	97.50	91.89
HIPOL	Failure	1	3	2.50	8.11
	Success	40	34	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP DL SFTP UL HTTP DL HTTP UL HTTP Capacity UL	Success	39	30	97.50	83.33
	Failure	1	6	2.50	16.67



4G PREFERRED BROWSING FILE ACCESS

Phase-1

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Konlar	Success	28	29	77.78	87.88
Kepier	Failure	8	4	22.22	12.12
Mahila Kaplar	Success	34	30	97.14	96.77
Mobile Kepler	Failure	1	1	2.86	3.23
	Success	35	30	100.00	96.77
www.snem.com	Failure	0	1	0.00	3.23
	Success	35	30	100.00	96.77
www.nbs.gov.sc	Failure	0	1 0.00		3.23
ununu aka ca	Success	33	29	94.29	93.55
www.sbc.sc	Failure	2	2	5.71	6.45

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Konler	Success	34	32	85.00	88.89
kepier	Failure	6	4	15.00	11.11
Mahila Karlar	Success	38	34	97.44	100.00
wobile kepler	Failure	1	0	2.56	0.00
ununu choin com	Success	40	34	100.00	97.14
www.snein.com	Failure	0	1	0.00	2.86
	Success	40	34	100.00	94.44
www.nbs.gov.sc	Failure	0	2	0.00	5.56
	Success	39	33	97.50	94.29
www.spc.sc	Failure	1	2	2.50	5.71



4G PREFERRED LATENCY

Phase-1

	Latency KPIs	Airtel 4G	CWS 4G		Latency KPIs	Airtel 4G	CWS 4G
	Sample Count [32 bytes]	68	58		Sample Count [32 bytes]	79	64
	Average Latency [ms]	270.75	209.36		Average Latency [ms]	287.97	191.34
Overall Latency Sam Overall Latency Mee Ping Ping Ping Ping	Median Latency [ms]	177	203		Median Latency [ms]	286	192
	Ping session status: Successful	68	64	Overall Latency	Ping session status: Successful	79	64
	Ping session status: Failed [Socket error]	0	0		Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	3	0		Ping session status: Failed [Protocol error timeout]	1	1
	Packet Loss<1%	4.23	0.00		Packet Loss<1%	1.25	1.54
www.google.com	Average Latency [ms]	418.03	174.48		Average Latency [ms]	415.85	153.25
	Median Latency [ms]	411	176		Median Latency [ms]	406	149
	Ping session status: Successful	33	31		Ping session status: Successful	39	33
www.google.com	Ping session status: Failed [Socket error]	411176Median Latency [ms]4063331Ping session status: Successful3900Ping session status: Failed [Socket error]0		0	0		
	Ping session status: Failed [Protocol error timeout]	2	0		Ping session status: Failed [Protocol error timeout]	0	1
Overall Latency P P www.google.com P 102.133.176.104	Packet Loss<1%	5.71	0.00		Packet Loss<1%	0.00	2.94
Overall Latency Pi	Average Latency [ms]	131.89	239.74		Average Latency [ms]	163.30	225.74
	Median Latency [ms]	126	223		Median Latency [ms]	166	204
102 122 176 104	Ping session status: Successful	35	31	102 122 176 104	Ping session status: Successful	40	31
102.133.176.104	Ping session status: Failed [Socket error]	0	0	102.133.176.104	Ping session status: Failed [Socket error]	0	0
Overall Latency P P www.google.com P 102.133.176.104	Ping session status: Failed [Protocol error timeout]	1	0		Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	2.78	0.00		Packet Loss<1%	2.44	0.00



4G PREFERRED YOUTUBE COMPARISON

Phase-1

LTE YOUTUBE Success Ratio					
KPIs Airtel 4G CWS					
Attempt(Count)	37	35			
Success(Count)	36	33			
Failure(Count)	1	2			
YouTube Access Time (s)	5.67	3.42			
YouTube Average Resolution (pixels)	1059.40	1008.61			
YouTube Success Ratio [%]	97.30	91.43			

LTE YOUTUBE Success Ratio				
KPIs	Airtel 4G	CWS 4G		
Attempt(Count)	41	37		
Success(Count)	40	34		
Failure(Count)	1	3		
YouTube Access Time (s)	5.45	2.08		
YouTube Average Resolution (pixels)	1065.83	1034.90		
YouTube Success Ratio [%]	97.56	91.89		



DATA TEST KPI STATISTICS (3G Preferred)

		Phase-1				Pha	se-2		
	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
<u>ج</u>	SFTP DL (Mbps)	4.79	3.96	1	2	4.49	2.97	1	2
	SFTP UL(Mbps)	1.11	0.91	1	2	1.22	0.96	1	2
ANSFI	HTTP DL(Mbps)	4.74	3.02	1	2	4.28	2.80	1	2
E TR/	HTTP UL(Mbps)	1.60	1.34	1	2	1.67	1.67	1	2
EII	HTTP Capacity DL(Mbps)	4.93	9.40	2	1	6.34	8.59	2	1
	HTTP Capacity UL(Mbps)	3.75	3.96	2	1	4.06	3.95	1	2
	Overall Browser DL Time (s)	9.92	8.41	2	1	8.82	7.77	2	1
	Kepler Webpage DL Time (s)	4.88	7.89	1	2	5.26	5.49	1	2
VSER	Mobile Kepler Webpage DL Time (s)	2.05	2.79	1	2	2.31	2.67	1	2
BROV	www.shein.com Webpage DL Time (s)	11.41	9.82	2	1	9.92	8.86	2	1
	www.nbs.gov.sc Webpage DL Time (s)	13.58	10.44	2	1	11.94	9.27	2	1
	www.sbc.sc Webpage DL Time (s)	17.26	11.18	2	1	14.89	11.94	2	1
NCY	Avg Latency (ms)	285.03	203.25	2	1	306.30	201.75	2	1
LATE	Median Latency (ms)	394	195	2	1	401	161	2	1
BE	YouTube Access Time (s)	3.65	3.04	2	1	3.54	2.17	2	1
UTU	YouTube Average Resolution (pixels)	1007.2	1020.75	2	1	1031.95	1057.81	2	1
λC	YouTube Success Ratio [%]	93.94	58.62	1	2	97.14	57.58	1	2



3G PREFERRED THROUGHPUT FILE ACCESS

Phase-1

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
	Success	27	15	100.00	78.95
SFIP DL	Failure	0	4	0.00	21.05
	Success	30	17	93.75	80.95
SFIP OL	Failure	2	4	6.25	19.05
HTTP DL	Success	31	21	100.00	95.45
	Failure	0	1	0.00	4.55
	Success	31	18	93.94	64.29
HIPOL	Failure	2	10	6.06	35.71
HTTP Capacity DL	Success	29	22	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	27	16	93.10	64.00
	Failure	2	9	6.90	36.00

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
	Success	31	24	100.00	96.00
SFIP DL	Failure	0	1	0.00	4.00
	Success	32	26	94.12	92.86
SFIP OL	Failure	2	2	5.88	7.14
HTTP DL	Success	34	26	100.00	92.86
	Failure	0	2	0.00	7.14
HTTP UL	Success	33	22	97.06	66.67
	Failure	1	11	2.94	33.33
HTTP Capacity DL	Success	34	28	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	34	25	100.00	83.33
	Failure	0	5	0.00	16.67



3G PREFERRED BROWSING FILE ACCESS

Phase-1

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Karalan	Success	28	18	90.32	81.82
Kepler	Failure	3	4	9.68	18.18
Mahila Kaular	Success	28	21	93.33	91.30
Mobile Kepler	Failure	2	2	6.67	8.70
www.shein.com	Success	29	20	93.55	100.00
	Failure	2	0	6.45	0.00
	Success	31	22	100.00	100.00
www.nbs.gov.sc	Failure	0	0	0.00	0.00
www.sbc.sc	Success	28	20	93.33	86.96
	Failure	2	3	6.67	13.04

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Konlor	Success	34	20	100.00	76.92
Kepler	Failure	0	6	0.00	23.08
Mahila Karlar	Success	34	26	100.00	86.67
Mobile Kepler	Failure	0	4	0.00	13.33
www.shein.com	Success	33	25	97.06	92.59
	Failure	1	2	2.94	7.41
www.nbs.gov.sc	Success	34	26	100.00	89.66
	Failure	0	3	0.00	10.34
www.sbc.sc	Success	33	27	94.29	100.00
	Failure	2	0	5.71	0.00



3G PREFERRED LATENCY

Phase-1

	Latency KPIs	Airtel 3G	CWS 3G	
	Sample Count [32 bytes]	43	37	
	Average Latency [ms]	352.81	182.73	
	Median Latency [ms]	415	156	
Overall Latency	Ping session status: Successful	43	37	Overa
	Ping session status: Failed [Socket error]	0	0	
	Ping session status: Failed [Protocol error timeout]	18	3	
	Packet Loss<1%	29.51	7.50	
	Average Latency [ms]	428.45	142.42	www.go
www.google.com	Median Latency [ms]	419	140	
	Ping session status: Successful	29	19	
	Ping session status: Failed [Socket error]	0	0	
	Ping session status: Failed [Protocol error timeout]	0	1	
	Packet Loss<1%	0.00	5.00	
	Average Latency [ms]	196.14	225.28	
102.133.176.104	Median Latency [ms]	183	214	
	Ping session status: Successful	14	18	102 12
	Ping session status: Failed [Socket error]	0	0	102.15
	Ping session status: Failed [Protocol error timeout]	18	2	
	Packet Loss<1%	56.25	10.00	

	Latency KPIs	Airtel 3G	CWS 3G
	Sample Count [32 bytes]	46	51
	Average Latency [ms]	360.70	189.34
	Median Latency [ms]	409	160
atency	Ping session status: Successful	46	51
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	18	1
	Packet Loss<1%	28.13	1.92
gle.com	Average Latency [ms]	421.94	151.63
	Median Latency [ms]	424	140
	Ping session status: Successful	31	28
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
	Average Latency [ms]	234.13	233.61
	Median Latency [ms]	225	205
76 104	Ping session status: Successful	15	23
76.104	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	18	1
	Packet Loss<1%	54.55	4.17



3G PREFERRED YOUTUBE COMPARISON

Phase-1

UMTS YOUTUBE Success Ratio				
KPIs	Airtel 3G	CWS 3G		
Attempt(Count)	33	29		
Success(Count)	32	17		
Failure(Count)	1	12		
YouTube Access Time (s)	3.65	3.04		
YouTube Average Resolution (pixels)	1007.20	1020.75		
YouTube Success Ratio [%]	93.94	58.62		

UMTS YOUTUBE Success Ratio				
KPIs	CWS 3G			
Attempt(Count)	35	33		
Success(Count)	34	19		
Failure(Count)	1	14		
YouTube Access Time (s)	3.54	2.17		
YouTube Average Resolution (pixels)	1031.95	1057.81		
YouTube Success Ratio [%]	97.14	57.58		



Voice Call Events



Phase-1 SHORT CALL FAILURE EVENTS LOCATION vs RSCP

Airtel SC MO





Phase-2 SHORT CALL FAILURE EVENTS LOCATION vs RSCP

Airtel SC MO





Phase-1 SHORT CALL EXCLUDED EVENTS

Airtel SC MO





Phase-2 SHORT CALL EXCLUDED EVENTS

Airtel SC MO





Phase-1 SHORT CALL FAILURE EVENTS LOCATION vs RSRP

Airtel SC MO

CWS SC MO

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Phase-2 SHORT CALL FAILURE EVENTS LOCATION vs RSRP

Airtel SC MO





Phase-1 LONG CALL FAILURE EVENTS LOCATION vs RSCP

Airtel LC MO

CWS LC MO

MontParia

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Phase-2 LONG CALL FAILURE EVENTS LOCATION vs RSCP

Airtel LC MO





Phase-1 LONG CALL EXCLUDED EVENTS

Airtel LC MO





Phase-2 LONG CALL EXCLUDED EVENTS

Airtel LC MO





Phase-1 LONG CALL FAILURE EVENTS LOCATION vs RSRP

Airtel LC MO





Phase-2 LONG CALL FAILURE EVENTS LOCATION vs RSRP

Airtel LC MO

CWS LC MO

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LONG CALL DRIVE PLOTS



Phase-1 Long Call RADIO TECHNOLOGY PLOT

Airtel LC MO



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Phase-2 Long Call RADIO TECHNOLOGY PLOT

Airtel LC MO

CWS LC MO

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Phase-1 Long Call RSRP PLOT

Airtel LC MO

CWS LC MO

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Phase-2 Long Call RSRP PLOT

Airtel LC MO








Phase-1 Long Call SINR PLOT

Airtel LC MO



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Phase-2 Long Call SINR PLOT

Airtel LC MO



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Phase-1 Long Call RSCP PLOT

Airtel LC MO

CWS LC MO







Phase-2 Long Call RSCP PLOT

Airtel LC MO

CWS LC MO







Phase-1 Long Call EC/NO PLOT

Airtel LC MO

CWS LC MO







Phase-2 Long Call EC/NO PLOT

Airtel LC MO

CWS LC MO

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Phase-1 Long Call RX level sub PLOT

Airtel LC MO



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Phase-2 Long Call RX level sub PLOT

Airtel LC MO



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Phase-1 Long Call RX quality sub PLOT

Airtel LC MO







Phase-2 Long Call RX quality sub PLOT

Airtel LC MO







3G PREFERRED DATA DRIVE PLOTS



Phase-1 3G PREFERRED DATA TEST - TECHNOLOGY PLOT

Airtel Data 3G







Phase-2 3G PREFERRED DATA TEST - TECHNOLOGY PLOT

Airtel Data 3G





Phase-1 3G PREFERRED DATA TEST - RSCP PLOT

Airtel Data 3G



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Phase-2 3G PREFERRED DATA TEST - RSCP PLOT

Airtel Data 3G









Phase-1 3G PREFERRED DATA TEST - EC/NO PLOT

Airtel Data 3G



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Phase-2 3G PREFERRED DATA TEST - EC/NO PLOT

Airtel Data 3G







Phase-1 3G PREFERRED DATA TEST - UARFCN PLOT

Airtel Data 3G









Phase-2 3G PREFERRED DATA TEST - UARFCN PLOT

Airtel Data 3G



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Mont Parme

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4G PREFERRED DATA DRIVE PLOTS



Phase-1 4G PREFERRED DATA TEST - TECHNOLOGY PLOT

Airtel Data 4G





Phase-2 4G PREFERRED DATA TEST - TECHNOLOGY PLOT

Airtel Data 4G

CWS Data 4G

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Phase-1 4G PREFERRED DATA TEST - RSRP PLOT

Airtel Data 4G







Phase-2 4G PREFERRED DATA TEST - RSRP PLOT

Airtel Data 4G



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Phase-1 4G PREFERRED DATA TEST - SINR PLOT

Airtel Data 4G

CWS Data 4G

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Mont Parm

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Phase-2 4G PREFERRED DATA TEST - SINR PLOT

Airtel Data 4G

CWS Data 4G

Arrest Lot.

ABSPI

Mont Parme

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OpenStreetMap contributor:

Sound C





Phase-1 4G PREFERRED DATA TEST - FREQUENCY BAND PLOT

Airtel Data 4G





Phase-2 4G PREFERRED DATA TEST - FREQUENCY BAND PLOT

Airtel Data 4G





Phase-1 4G PREFERRED DATA TEST - CARRIER AGGREGATION PLOT

Airtel Data 4G





Phase-2 4G PREFERRED DATA TEST - CARRIER AGGREGATION PLOT

Airtel Data 4G





Phase-1 4G PREFERRED DATA TEST – BANDWIDTH PLOT

Airtel Data 4G





Phase-2 4G PREFERRED DATA TEST – BANDWIDTH PLOT

Airtel Data 4G





Negative Event Analysis

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	6
Poor Coverage	6

Call Attempt Failure cause from CWS	Count		
Total Call Attempt Failure	13		
Poor Coverage	9		
Poor Quality	4		

Call Drop cause from Airtel	Count
Total Call Drop	1
Poor Quality	1

Call Drop cause from CWS	Count
Total Call Drop	4
Poor Quality	4

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Phase-1 Call Attempt Failure Analysis 1 From MS5 Airtel MO

	Time	System	Serving band	Cal		1. best active RSCP	Time	Ch	SC	1. best	*		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	9:21:51.305	UMTS FDD	2100	No	8883.	-118.9	9:21:45.824	10588	336		-	23960.	RRCSM	UMTS FDD	Uplink	9:21:34.166	DCCH	UPUNK_DIRECT_TRANSFER	Analysis
2.	10:06:27,514	UMTS FDD	2100	Nor	8884.	ar daaraa ta	9:21:45.824	10588	336	-16.8		23961.	L3SM	UMTS FDD	Uplink	9:21:34.166	DCCH	AUTHENTICATION_RESPONSE	This of
3.	10:09:37.479	GSM	900	Nor	8885,	-114.7	9:21:46.417	10588	336			23962.	RRCSM	UMTS FDD	Downlink	9:21:34.254	DCCH	SECURITY_MODE_COMMAND	call a
4.	10:13:53.532	UMTS FDD	900	Not	8886.		9:21:46.417	10588	336	-14.3		23963.	RRCSM	UMTS FDD	Uplink	9:21:34.255	DCCH	SECURITY_MODE_COMPLETE	latche
5.	10:17:59.360	GSM	900	Nor	8887.	-118.1	9:21:46.804	10588	336			23964.	RRCSM	UMTS FDD	Uplink	9:21:34.346	DCCH	UPLINK_DIRECT_TRANSFER	latern
6.	10:20:22.730	UMTS FDD	2100	Nor	8888.		9:21:46.804	10588	336	-17.3		23965.	L3SM	UMTS FDD	Uplink	9:21:34.346	DCCH	SETUP	• Aftor
					8889.	-116.6	9:21:47.454	10588	336			23966,	RRCSM	UMTS FDD	Downlink	9:21:34.355	DCCH	DOWNLINK_DIRECT_TRANSFER	Alter
					8890.		9:21:47.454	10588	336	-15.6		23967.	L3SM	UMTS FDD	Downlink	9:21:34.355	DCCH	IDENTITY_REQUEST	mess
					8891.	-113.6	9:21:48.135	10588	336			23968.	RRCSM	UMTS FDD	Uplink	9:21:34.356	DCCH	UPLINK_DIRECT_TRANSFER	netw
					8892.		9:21:48.135	10588	336	-13.2		23969.	L3SM	UMTS FDD	Uplink	9:21:34.356	DCCH	IDENTITY_RESPONSE	mess
					8893.	-116.8	9:21:48.492	10588	336			23970.	RRCSM	UMTS FDD	Downlink	9:21:34.465	DCCH	DOWNLINK_DIRECT_TRANSFER	failed
					8894.	ANNAVAR:	9:21:48.492	10588	336	-15.8		23971.	L3SM	UMTS FDD	Downlink	9:21:34.465	DCCH	CALL_PROCEEDING	
					8895.	-115	9:21:48.910	10588	336			23972.	RRCSM	UMTS FDD	Uplink	9:21:35.196	DCCH	MEASUREMENT_REPORT	Durir
					8896,		9:21:48.910	10588	336	-14.1		23973.	RRCSM	UMTS FDD	Uplink	9:21:35.307	DCCH	MEASUREMENT_REPORT	PSC 3
					8897.	-113,4	9:21:49.426	10588	336			23974.	RRCSM	UMTS FDD	Uplink	9:21:38.034	DCCH	MEASUREMENT_REPORT	dBm
					8898.		9:21:49.426	10588	336	-13.4		23975.	RRCSM	UMTS FDD	Uplink	9:21:38.957	DCCH	MEASUREMENT_REPORT	poor.
					8899.	-114.7	9:21:49.884	10588	336			23976.	RRCSM	UMTS FDD	Uplink	9:21:40.057	DCCH	MEASUREMENT_REPORT	
					8900.		9:21:49.884	10588	336	-14.9		23977.	RRCSM	UMTS FDD	Downlink	9:21:40.414	DCCH	RADIO_BEARER_SETUP	Call f
					8901.	-121.6	9:21:50.604	10588	336			23978.	RRCSM	UMTS FDD	Uplink	9:21:40.778	DCCH	RADIO_BEARER_SETUP_COMPLETE	and o
					8902.		9:21:50.604	10588	336	-19.5	-	23979.	RRCSM	UMTS FDD	Downlink	9:21:41.065	DCCH	RADIO_BEARER_RECONFIGURATION	stren
					8903.	-119,4	9:21:51.195	10588	336			23980.	RRCSM	UMTS FDD	Downlink	9:21:41.105	DCCH	DOWNLINK_DIRECT_TRANSFER	contr
					8904.	2006/00012	9:21:51.195	10588	336	-18.5		23981.	L3SM	UMTS FDD	Downlink	9:21:41.105	DCCH	PROGRESS	
					8905.	-114	9:21:51.845	10588	336			23982.	RRCSM	UMTS FDD	Uplink	9:21:41.107	DCCH	RADIO_BEARER_RECONFIGURATION_COM	
					8906,		9:21:51.845	10588	336	-13.6		23983,	RRCSM	UMTS FDD	Downlink	9:21:41.385	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
					8907.	-106.5	9:22:32.728	10588	336			23984.	RRCSM	UMTS FDD	Uplink	9:21:41.427	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_	
					8908.		9:22:32.728	10588	336	-10.7		23985.	RRCSM	UMTS FDD	Downlink	9:21:42.305	DCCH	MEASUREMENT_CONTROL	
					8909.	-106	9:22:33.184	10588	336			23986.	RRCSM	UMTS FDD	Uplink	9:21:43,404	DCCH	MEASUREMENT_REPORT	
					8910.		9:22:33.184	10588	336	-10.8		23987.	RRCSM	UMTS FDD	Downlink	9:21:43.425	DCCH	SECURITY_MODE_COMMAND	
					8911.	-106.3	9:22:33.715	10588	336			23988.	RRCSM	UMTS FDD	Uplink	9:21:43.425	DCCH	SECURITY_MODE_COMPLETE	
					8912.		9:22:33.715	10588	336	-11.3		23989.	RRCSM	UMTS FDD	Downlink	9:21:43.825	DCCH	DOWNLINK_DIRECT_TRANSFER	
					8913.	-109.1	9:22:34.184	10588	336			23990.	L3SM	UMTS FDD	Downlink	9:21:43.825	DCCH	ROUTING_AREA_UPDATE_ACCEPT	
					8914.	1115016	9:22:34.184	10588	336	-11.9		23991.	RRCSM	UMTS FDD	Uplink	9:21:43.827	DCCH	UPLINK_DIRECT_TRANSFER	
					8915.	-104.9	9:22:35.110	10588	116			23992.	L3SM	UMTS FDD	Uplink	9:21:43.827	DCCH	ROUTING_AREA_UPDATE_COMPLETE	
					8916,		9:22:35.110	10588	336	-8.7		23993.	RRCSM	UMTS FDD	Downlink	9:21:44.104	DCCH	DOWNLINK_DIRECT_TRANSFER	
					8917.	-109.7	9:22:35.384	10588	336			23994	LISSM	UMTS FDD	Downlink	9:21:44.104	DCCH	GMM INFO	

- Il failure event occurred on short 09:21:51:305 time when UE was with 3G network.
- ending "CM Service Request" ge to core network, then core k responds with "Call Proceeding" ge. After that call setup has been
- the failure, UE was latched with and RF condition RSCP -119.4 oor but Ec/No -18.5 dB are very
- led due to poor network coverage ality at the MO site. Low signal h and degraded network quality are uting to call failures

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Phase-1 Call Attempt Failure Analysis 2 From MS5 Airtel MO

	Time	System	Serving ban	nd Cal	1. best active RSCP	Time	Ch S	C 1. best active Ec/N0 🔺		Event ID	System	Transf. dir.	Time Subchanne	I Message name	
1.	9:21:51.305	UMTS FDD	2100	Nor 10131	106.3	10:06:20.358	10588 33	36	28159.	RRCSM	UMTS FDD	Downlink	10:06:11.08" DCCH	MEASUREMENT_CONTROL	Analysis:
2.	10:06:27.514	UMTS FDD	2100	Not 10132		10:06:20.358	10588 33	36 -11.2	28160	RRCSM	UMTS FDD	Downlink	10:06:11.10" DCCH	DOWNLINK_DIRECT_TRANSFER	This call failure event occurred on short
3.	10:09:37.479	GSM	900	Nor 10133	102.6	10:06:20.804	10588 1	16	28161.	L3SM	UMITS FDD	Downlink	10:06:11.10 DCCH	CALL_PROCEEDING	call at 10:06:27:514 time when LIE was
4.	10:13:53.532	UMTS FDD	900	No: 10134		10:06:20.804	10588 1	16 -9.3	28162.	RRCSM	UMTS FDD	Uplink	10:06:11.455 DCCH	MEASUREMENT_REPORT	latched with 2C notwork
5.	10:17:59.360	GSM	900	Nor 10135	99,9	10:06:21.455	10588 33	36	28163.	RRCSM	UMTS FDD	Downlink	10:06:11.56" DCCH	ACTIVE_SET_UPDATE	latened with 5G network.
б.	10:20:22.730	UMTS FDD	2100	Nor 10136		10:06:21.455	10588 33	36 -6	28164.	RRCSM	UMTS FDD	Uplink	10:06:11.57: DCCH	ACTIVE_SET_UPDATE_COMPLETE	
				10137	103.4	10:06:22.175	10588 33	36	28165.	RRCSM	UMTS FDD	Downlink	10:06:11.69" DCCH	MEASUREMENT_CONTROL	After sending "CM Service Request"
				10138	8	10:06:22.175	10588 33	36 -7.2	28166.	RRCSM	UMTS FDD	Uplink	10:06:11.76: DCCH	MEASUREMENT_REPORT	message to core network, then core
				10139	-108	10:06:22.45(10588 33	36	28167.	RRCSM	UMTS FDD	Uplink	10:06:12.90: DCCH	MEASUREMENT_REPORT	network responds with "Call Proceeding "
				10140		10:06:22.45(10588 33	36 -11.2	28168.	RRCSM	UMTS FDD	Uplink	10:06:12.97! DCCH	MEASUREMENT_REPORT	message. After that call setup has been
				10141	-100.6	10:06:23.20(10588 33	36	28169.	RRCSM	UMTS FDD	Downlink	10:06:16.51" DCCH	RADIO_BEARER_SETUP	failed.
				10142	<u> </u>	10:06:23.20(10588 33	36 -5.6	28170.	RRCSM	UMTS FDD	Uplink	10:06:16.865 DCCH	RADIO_BEARER_SETUP_COMPLETE	
				10143	107.3	10:06:23.464	10588 1	16	28171.	RRCSM	UMTS FDD	Downlink	10:06:17.15: DCCH	RADIO_BEARER_RECONFIGURATION	During the failure. UF was latched with
				10144		10:06:23.464	10588 1	16 -10.8	28172	RRCSM	UMTS FDD	Downlink	10:06:17.19; DCCH	DOWNLINK_DIRECT_TRANSFER	PSC 328 and RE condition RSCP -102 dBm
				10145	-108.4	10:06:24.18-	10588 1	16	28173.	L3SM	UMTS FDD	Downlink	10:06:17.19; DCCH	PROGRESS	noor but Ec/No -8.4 dB are very good
				10146		10:06:24.184	10588 1	16 -12.2	28174.	RRCSM	UMTS FDD	Uplink	10:06:17.19: DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	poor but EC/100 -8.4 db are very good.
				10147	102.7	10:06:24.494	10588 1	16	28175.	RRCSM	UMTS FDD	Uplink	10:06:18.48E DCCH	MEASUREMENT_REPORT	
				10148	2	10:06:24.494	10588 1	16 -8.8	28176.	RRCSM	UMTS FDD	Downlink	10:06:18.512 DCCH	MEASUREMENT_CONTROL	Call failed due to poor network coverage
				10149	-105.3	10:06:25.20*	10588 33	36	28177.	RRCSM	UMTS FDD	Uplink	10:06:18.61: DCCH	MEASUREMENT_REPORT	at the MO site. Insufficient signal strength
				10150		10:06:25.20*	10588 33	36 -11.8	28178.	RRCSM	UMTS FDD	Downlink	10:06:18.672 DCCH	SECURITY_MODE_COMMAND	in the area is causing call failures.
				10151	100.3	10:06:25.68*	10588 33	36	28179.	RRCSM	UMTS FDD	Uplink	10:06:18.67: DCCH	SECURITY_MODE_COMPLETE	
				10152		10:06:25.681	10588 33	36 -8.4	28180.	RRCSM	UMTS FDD	Uplink	10:06:18.86: DCCH	MEASUREMENT_REPORT	
				10153	104	10:06:26.202	10588 33	36	28181.	RRCSM	UMTS FDD	Downlink	10:06:19.112 DCCH	DOWNLINK_DIRECT_TRANSFER	
				10154		10:06:26.202	10588 33	36 -13	28182.	L3SM	UMTS FDD	Downlink	10:06:19.112 DCCH	ROUTING_AREA_UPDATE_ACCEPT	
				10155	98.6	10:06:26.703	10588 33	36	28183.	RRCSM	UMTS FDD	Uplink	10:06:19.115 DCCH	UPLINK_DIRECT_TRANSFER	
				10156		10:06:26.703	10588 33	36 -12.8	28184.	LISM	UMTS FDD	Uplink	10:06:19.115 DCCH	ROUTING_AREA_UPDATE_COMPLETE	
				10157	-102	10:06:27.20*	10588 33	28	28185.	RRCSM	UMTS FDD	Downlink	10:06:19.432 DCCH	DOWNLINK_DIRECT_TRANSFER	
				10158		10:06:27.20	10588 3	28 -8,4	28186.	L3SM	UMTS FDD	Downlink.	10:06:19.432 DCCH	GMM_INFO	
				10159	98.7	10:06:27.865	10588 33	28	28187.	RRCSM	UMTS FDD	Downlink	10:06:19.712 DCCH	SIGNALLING_CONNECTION_RELEASE	
				10160	k.	10:06:27.865	10588 32	28 -9.2	28188.	RRCSM	UMTS FDD	Uplink	10:06:21.731 DCCH	MEASUREMENT_REPORT	
				10161	91	10:06:58.895	3050 1	16	28189.	RRCSM	UMTS FDD	Downlink	10:06:25.552 DCCH	DOWNLINK_DIRECT_TRANSFER	
				10162		10:06:58.895	3050 1	16 -8.9	28190.	L3SM	UMTS FDD	Downlink	10:06:25.552 DCCH	PROGRESS	
				10163	91	10:06:59.575	3050 1	16	28191.	RRCSM	UMTS FDD	Uplink	10:06:26.285 DCCH	MEASUREMENT_REPORT	
				10164		10:06:59.575	3050 1	16 -13.9	28192.	RRCSM	UMTS FDD	Downlink	10:06:26.592 DCCH	ACTIVE_SET_UPDATE	
				10165	91	10:07:00.191	3050 1	16	28193.	RRCSM	UMTS FDD	Uplink	10:06:26.623 DCCH	ACTIVE_SET_UPDATE_COMPLETE	
				10166		10:07:00.19	3050 1	16 -15.9	28194.	RRCSM	UMTS FDD	Downlink	10:06:26.674 BCCH BCH	SYSTEM INFORMATION BCH	
Phase-1 Call Attempt Failure Analysis 3 From MS5 Airtel MO

	Time	System	Serving band	Cal		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub	*	System	Transf. dir.	Time	Subchannel	Message name	
1.	9:21:51.305	UMTS FDD	2100	Nor	114.	10:09:24.371	-93	96	47	50000	1		2898	7. GSM	Uplink	10:09:27.73	SACCH	MEASUREMENT_REPORT	Analysis:
2.	10:06:27.514	UMTS FDD	2100	Not	115.	10:09:24.842	-94	96	47	50000	1		2898	8. GSM	Uplink	10:09:28.21	SACCH	MEASUREMENT_REPORT	This call failure event occurred on short
3,	10:09:37.479	GSM	900	Not	116,	10:09:25.391	-93	96	47	50000	1		2898	9, GSM	Uplink	10:09:28.69	SACCH	MEASUREMENT_REPORT	call at 10:09:37:479 time when LIE was
4,	10:13:53.532	UMTS FDD	900	Nor	117.	10:09:25.862	-93	96	47	50000	1		2899	0, GSM	Uplink	10:09:29.17	SACCH	MEASUREMENT_REPORT	latched with 2C natwork
5.	10:17:59.360	GSM	900	Not	118,	10:09:26.633	-93	96	47	50000	1		2899	1. GSM	Uplink	10:09:29.65	SACCH	MEASUREMENT_REPORT	latened with 3G network.
6.	10:20:22.730	UMTS FDD	2100	Noi	119.	10:09:26.633						7	2899	2. GSM	Uplink	10:09:30.13	SACCH	MEASUREMENT_REPORT	
					120,	10:09:27.251	-100	91	47	50000	1	01	2899	3. GSM	Uplink	10:09:30.61	SACCH	MEASUREMENT_REPORT	After sending "CM Service Request"
					121.	10:09:28.211	-102	91	47	50000	1		2899	4. GSM	Uplink	10:09:31.09	SACCH	MEASUREMENT_REPORT	message to core network, then core
					122.	10:09:28.691	-103	91	47	50000	1		2899	5. GSM	Uplink	10:09:31.57	SACCH	MEASUREMENT_REPORT	network responds with "Call Proceeding "
					123,	10:09:29.273	-103	91	47	50000	1		2899	6. GSM	Uplink	10:09:32.05	SACCH	MEASUREMENT_REPORT	message. After that call setup has been
					124.	10:09:30.273	-103	91	47	50000	1		2899	7. GSM	Uplink	10:09:32.53	SACCH	MEASUREMENT_REPORT	failed.
					125,	10:09:30.611	-103	91	47	50000	1		2899	8. GSM	Uplink	10:09:33.01	SACCH	MEASUREMENT_REPORT	
					126,	10:09:31,271	-103	91	47	50000	1		2899	9. GSM	Uplink	10:09:33.49	SACCH	MEASUREMENT_REPORT	During the call failure LIE, was latched with
					127.	10:09:31.797	-102	91	47	50000	1		2900	0. GSM	Uplink	10:09:33.97	SACCH	MEASUREMENT_REPORT	During the call failure OE, was lattined with
					128.	10:09:32.269	-102	91	47	50000	1		2900	1. GSM	Uplink	10:09:34.45	SACCH	MEASUREMENT_REPORT	ARFCN 91 and RF condition RxieV -103
					129.	10:09:32.731	-102	91	47	50000	1		2900	2. GSM	Uplink	10:09:34.93	SACCH	MEASUREMENT_REPORT	dBm is poor and Rxqual 7 which is poor.
					130.	10:09:33.273	-104	91	47	50000	1		2900	3. GSM	Uplink	10:09:35.41	SACCH	MEASUREMENT_REPORT	
					131.	10:09:33.971	-104	91	47	50000	1		2900	4. GSM	Uplink	10:09:35.89	SACCH	MEASUREMENT_REPORT	Call failed due to poor network coverage
					132.	10:09:34.451	-103	91	47	50000	1		2900	5. GSM	Uplink	10:09:36.37	SACCH	MEASUREMENT_REPORT	and quality at the MO site. Low signal
					133.	10:09:35.411	-104	91	47	50000	1		2900	6. GSM	Uplink	10:09:36.85	SACCH	MEASUREMENT_REPORT	strength and degraded network quality are
					134,	10:09:36.269	-103	91	47	50000	1		2900	7. GSM	Uplink	10:09:36.95	1 DCCH	DISCONNECT	contributing to call failures
					135.	10:09:36.574	-103	91	47	50000	1		2900	B. GSM	Uplink	10:09:37.33	SACCH	MEASUREMENT_REPORT	
					136.	10:09:36.851						7	2900	9. GSM	Uplink	10:09:37.88	SACCH	MEASUREMENT_REPORT	
					137.	10:09:37.269	-103	91	47	50000	1		2901	0. GSM	Uplink	10:09:38.29	SACCH	MEASUREMENT_REPORT	
					138,	10:09:37.479	-103	91	47	50000	1		2901	I. GSM	Uplink	10:09:38.77	SACCH	MEASUREMENT_REPORT	
					139.	10:09:38.199	-101	91	47	50000	1		2901	2. GSM	Uplink	10:09:39.25	SACCH	MEASUREMENT_REPORT	
					140.	10:09:38.291	-103	91	47	50000	1		2901	3. GSM	Uplink	10:09:39.73	SACCH	MEASUREMENT_REPORT	
					141.	10:09:39.251	-101	91	47	50000	1		2901	4. GSM	Uplink	10:09:40.21	SACCH	MEASUREMENT_REPORT	
					142.	10:09:39.376	-103	91	47	50000	1		2901	5. GSM	Uplink	10:09:40.69	SACCH	MEASUREMENT_REPORT	
					143.	10:09:40.269	-102	91	47	50000	1		2901	5. GSM	Uplink	10:09:41.17	SACCH	MEASUREMENT_REPORT	
					144.	10:09:41.269	-103	91	47	50000	1		2901	7. GSM	Uplink	10:09:41.65	SACCH	MEASUREMENT_REPORT	
					145.	10:09:41.697	-102	91	47	50000	1		2901	8. GSM	Uplink	10:09:42.13	SACCH	MEASUREMENT_REPORT	
					146.	10:09:42.273	-104	91	47	50000	1		2901	9. GSM	Uplink	10:09:42.61	SACCH	MEASUREMENT_REPORT	
					147.	10:09:42.616	-102	91	47	50000	1		2902	0, GSM	Uplink	10:09:43.09	SACCH	MEASUREMENT_REPORT	
					148.	10:09:43.280	-104	91	47	50000	1		2902	1. GSM	Downlink	10:10:09.05	BCCH	SYSTEM_INFORMATION_TYPE_3	
					149.	10:09:43.280							2902	2. GSM	Downlink	10:10:09.15	E BCCH	SYSTEM_INFORMATION_TYPE_1	
					150.	10:09:47.302				50000	1		- 2902	S. GSM	Downlink	10:10:09.15	BCCH	SYSTEM INFORMATION TYPE 2	

Phase-1 Call Attempt Failure Analysis 4 From MS5 Airtel MO

	Time	System	Serving band	Cal		1. best active RSCP	Time	Ch	SC	1. best active Ec/NC +		Transf. dir.	Time	Subchannel	Message name	
1.	9:21:51.305	UMTS FDD	2100	Nor	10610.	-104,3	10:13:46.244	3050	116		29937	Downlink	10:13:36.9	92 DCCH	SIGNALLING_CONNECTION_RELEASE	1
2.	10:06:27.514	UMTS FDD	2100	Nor	10611.		10:13:46.244	3050	116	-18.4	29938	Downlink	10:13:37.0	22 DCCH	DOWNLINK_DIRECT_TRANSFER	
3,	10:09:37.479	GSM	900	Nor	10612.	-98.8	10:13:46.704	3050	116		29939.	Downlink	10:13:37.0	22 DCCH	CM_SERVICE_ACCEPT	
4,	10:13:53.532	UMTS FDD	900	Not	10613.		10:13:46.704	3050	116	-13.5	29940	Uplink	10:13:37.0	25 DCCH	UPLINK_DIRECT_TRANSFER	
5,	10:17:59.360	GSM	900	Nor	10614.	-99.3	10:13:47.213	3050	116		29941	Uplink	10:13:37.0	23 DCCH	SETUP	
6.	10:20:22.730	UMTS FDD	2100	Nor	10615.		10:13:47.213	3050	116	-14.5	29942	Downlink	10:13:37.14	42 DCCH	DOWNLINK_DIRECT_TRANSFER	
					10616.	-98.6	10:13:47.685	3050	116		29943.	Downlink	10:13:37.1	42 DCCH	CALL_PROCEEDING	
					10617.		10:13:47.685	3050	116	-14.1	29944	Uplink	10:13:37.5	35 DCCH	MEASUREMENT_REPORT	
					10618.	-104.5	10:13:48.213	3050	116		29945	Uplink	10:13:37.6	45 DCCH	MEASUREMENT_REPORT	
					10619.		10:13:48.213	3050	116	-20.2	29946	Downlink	10:13:42.5	22 DCCH	RADIO_BEARER_SETUP	
					10620.	-94.1	10:13:48.661	3050	116		29947.	Uplink	10:13:42.8	BÉ DCCH	RADIO_BEARER_SETUP_COMPLETE	
					10621.		10:13:48.661	3050	116	-11.3	29948	Downlink	10:13:43.1	72 DCCH	RADIO_BEARER_RECONFIGURATION	
					10622.	-101.2	10:13:49.445	3050	116		29949	Downlink	10:13:43.2	12 DCCH	DOWNLINK_DIRECT_TRANSFER	
					10623.		10:13:49.445	3050	116	-16.8	29950	Downlink	10:13:43.2	12 DCCH	PROGRESS	
					10624.	-98	10:13:49.855	3050	116		29951.	Uplink	10:13:43.2	14 DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
					10625.		10:13:49.855	3050	116	-13.6	29952	Uplink	10:13:47.5	35 DCCH	MEASUREMENT_REPORT	
					10626.	-98.8	10:13:50.502	3050	116		29953.	Downlink	10:13:47.8	12 DCCH	ACTIVE_SET_UPDATE	
					10627.		10:13:50.502	3050	116	-14.5	29954	Uplink	10:13:47.8	24 DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					10628.	-99	10:13:51.213	3050	116		29955.	Downlink	10:13:48.2	12 DCCH	MEASUREMENT_CONTROL	
					10629.		10:13:51.213	3050	116	-13.9	29956	Downlink	10:13:49.13	32 DCCH	DOWNLINK_DIRECT_TRANSFER	
					10630.	-95,2	10:13:51.714	3050	116		29957.	Downlink	10:13:49.13	32 DCCH	PROGRESS	
					10631.		10:13:51.714	3050	116	-10.6	29958	Uplink	10:13:50.6	16 DCCH	MEASUREMENT_REPORT	
					10632.	-102.9	10:13:52.265	3050	116		29959	Downlink	10:13:50.8	52 DCCH	ACTIVE_SET_UPDATE	
					10633.		10:13:52.265	3050	116	-17 💻	29960.	Uplink	10:13:50.8	B4 DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					10634.	-104.2	10:13:52.473	3050	116		29961.	Downlink	10:13:51.13	35 DCCH	MEASUREMENT_CONTROL	
					10635.		10:13:52.473	3050	116	-18.2	29962	Uplink	10:13:52.70	DE DCCH	MEASUREMENT_REPORT	
					10636.	-103.8	10:13:53.268	3050	116		29963.	Uplink	10:13:52.9	DE DCCH	MEASUREMENT_REPORT	
					10637.		10:13:53.268	3050	116	-18,1	29964	Downlink	10:13:52.9	7: DCCH	ACTIVE_SET_UPDATE	
					10638.	-106.7	10:13:53,829	3050	23		29965.	Uplink	10:13:52.9	B4 DCCH	ACTIVE_SET_UPDATE_COMPLETE	
					10639.		10:13:53.829	3050	23	-22.7	29966.	Uplink	10:13:53.2	9: DCCH	UPLINK DIRECT TRANSFER	

- This call failure event occurred on short call at 10:13:53:532 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the failure, UE was latched with PSC 116 and RF condition RSCP -103.8 dBm poor but Ec/No -18.1 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

metro

Phase-1 Call Attempt Failure Analysis 5 From MS5 Airtel MO

	Time	System	Serving band	Cal		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub 🔺		System	Transf. dir.	Time	Subchannel	Message name	
1.	9:21:51.305	UMTS FDD	2100	Nor	295.	10:15:38.501							31067.	GSM	Uplink	10:17:54.8	9§ SACCH	MEASUREMENT_REPORT	Analys
2.	10:06:27.514	UMTS FDD	2100	Nor	296.	10:15:42.276				50000	1		31068.	GSM	Downlink	10:17:55.3	35 SACCH	MEASUREMENT_INFORMATION	• This
3,	10:09:37.479	GSM	900	Nor	297.	10:15:43,198				50000	1		31069.	GSM	Uplink	10:17:55.3	75 SACCH	MEASUREMENT_REPORT	call
4.	10:13:53.532	UMTS FDD	900	Nor	298.	10:17:52.499						0	31070.	GSM	Downlink	10:17:55.8	13 SACCH	SYSTEM_INFORMATION_TYPE_6	latch
5,	10:17:59,360	GSM	900	Nor	299.	10:17:52.939	-89	95	59	50000	4		31071.	GSM	Uplink	10:17:55.8	55 SACCH	MEASUREMENT_REPORT	
6.	10:20:22.730	UMTS FDD	2100	Nor	300.	10:17:52.979						0	31072.	GSM	Downlink	10:17:56.2	92 SACCH	SYSTEM_INFORMATION_TYPE_5	• Afte
					301.	10:17:53.265	-88	95	59	50000	4		31073.	GSM	Uplink	10:17:56.3	35 SACCH	MEASUREMENT_REPORT	mes
					302.	10:17:53.666	-88	95	59	50000	4		31074.	GSM	Downlink	10:17:56.7	7: SACCH	MEASUREMENT_INFORMATION	netv
					303.	10:17:54.275	-88	95	59	50000	4		31075.	GSM	Uplink	10:17:56.8	19 SACCH	MEASUREMENT_REPORT	mes
					304.	10:17:54.926	-91	95	59	50000	4		31076.	GSM	Downlink	10:17:57.2	5: SACCH	SYSTEM_INFORMATION_TYPE_6	failo
				j	305.	10:17:55.379	-92	95	59	50000	4		31077.	GSM	Uplink	10:17:57.2	99 SACCH	MEASUREMENT_REPORT	Talle
					306.	10:17:55.863	-92	95	59	50000	4		31078.	GSM	Downlink	10:17:57.7	32 SACCH	SYSTEM_INFORMATION_TYPE_5	a Duri
					307.	10:17:56.500	-91	95	59	50000	4		31079.	GSM	Uplink	10:17:57.7	79 SACCH	MEASUREMENT_REPORT	• Duri
					308.	10:17:56.985	-92	95	59	50000	4		31080.	GSM	Downlink	10:17:58.2	1: SACCH	MEASUREMENT_INFORMATION	ARE
					309,	10:17:57.303	-91	95	59	50000	4		31081.	GSM	Uplink	10:17:58.2	59 SACCH	MEASUREMENT_REPORT	is po
					310,	10:17:58.203	-92	95	59	50000	4		31082.	GSM	Downlink	10:17:58.6	92 SACCH	SYSTEM_INFORMATION_TYPE_6	
					311.	10:17:58.259						1	31083.	GSM	Uplink	10:17:58.7	3§ SACCH	MEASUREMENT_REPORT	• Call
					312.	10:17:58.485	-93	95	59	50000	4		31084.	GSM	Downlink	10:17:59.1	72 SACCH	SYSTEM_INFORMATION_TYPE_S	and
					313.	10:17:58.739						2	31085.	GSM	Uplink	10:17:59.2	1(DCCH	DISCONNECT	strei
					314.	10:17:59.172						2	31086.	GSM	Uplink	10:17:59.2	19 SACCH	MEASUREMENT_REPORT	cont
					315.	10:17:59.219	-98	95	59	50000	4		31087.	GSM	Downlink	10:17:59.3	45 DCCH	RELEASE	
					316.	10:17:59.219						5	31088.	GSM	Uplink	10:17:59/3	60 DCCH	RELEASE_COMPLETE	
					317.	10:17:59.630							31089.	GSM	Downlink	10:17:59.4	86 DCCH	CHANNEL_RELEASE	
					318.	10:18:02.556	-98	95	59	50000	1		31090.	GSM	Downlink	10:17:59.6	9: BCCH	SYSTEM_INFORMATION_TYPE_4	
					319.	10:18:02.788						0	31091.	GSM	Downlink	10:17:59.9	29 BCCH	SYSTEM_INFORMATION_TYPE_1	
					320.	10:18:03.258						1	31092.	GSM	Downlink	10:18:00.1	6(BCCH	SYSTEM_INFORMATION_TYPE_2	
				1	321.	10:18:03.276	-93	95	59	50000	1		31093.	GSM	Downlink	10:18:00.3	95 BCCH	SYSTEM_INFORMATION_TYPE_3	
					322.	10:18:03.861	-93	95	59	50000	1		31094.	GSM	Downlink	10:18:00.4	14 BCCH	SYSTEM_INFORMATION_TYPE_1	
					323.	10:18:03.861							31095.	GSM	Downlink	10:18:00.4	15 BCCH	SYSTEM_INFORMATION_TYPE_2	
					324.	10:18:04.271	-93	95	59	50000	1		31096,	GSM	Downlink	10:18:00.4	15 BCCH	SYSTEM_INFORMATION_TYPE_4	
					325.	10:18:04.797	-93	95	59	50000	1		31097.	GSM	Downlink	10:18:00.4	15 BCCH	SYSTEM_INFORMATION_TYPE_3	
					326.	10:18:05.276	-98	95	59	50000	1		31098.	GSM	Downlink	10:18:00.6	37 BCCH	SYSTEM_INFORMATION_TYPE_4	
					327.	10:18:05.706	-98	95	59	50000	1		31099.	GSM	Downlink	10:18:00.8	6: BCCH	SYSTEM_INFORMATION_TYPE_3	
					328.	10:18:06.272	-97	95	59	50000	1		31100.	GSM	Downlink	10:18:01.0	98 BCCH	SYSTEM INFORMATION TYPE 2	2

- call failure event occurred on short at 10:17:59:360 time when UE was hed with 3G network.
- r sending "CM Service Request" sage to core network, then core work responds with "Call Proceeding" sage. After that call setup has been
- ing the call failure UE, was latched with CN 95 and RF condition Rxlev -98 dBm oor and Rxqual 5 which is poor.
- failed due to poor network coverage quality at the MO site. Low signal ngth and degraded network quality are tributing to call failures

Phase-1 Call Attempt Failure Analysis 6 From MS5 Airtel MO

	Time	System	Serving band	Cal		1. best active RSCP	Time	Ch	SC	1. best active Ec/NC +		Transf. dir.	Time	Subchannel	Message name
1.	9:21:51.305	UMTS FDD	2100	Nor	11018.	-108,3	10:20:15.386	10562	53		31763,	Downlink	10:20:06.004	DCCH	DOWNLINK_DIRECT_TRANSFER
2,	10:06:27.514	UMTS FDD	2100	Nor	11019.		10:20:15.386	10562	53	-8.4	31764.	Downlink	10:20:06.004	DCCH	CM_SERVICE_ACCEPT
3.	10:09:37.479	GSM	900	Nor	11020.	-115	10:20:15.576	10562	53		31765.	Uplink	10:20:06.004	DCCH	UPLINK_DIRECT_TRANSFER
4.	10:13:53.532	UMTS FDD	900	Nor	11021.		10:20:15.576	10562	53	-12.9	31766.	Uplink	10:20:06.004	DCCH	SETUP
5,	10:17:59.360	GSM	900	Nor	11022.	-111.2	10:20:16.371	10562	53		31767.	Downlink	10:20:06.104	DCCH	DOWNLINK_DIRECT_TRANSFER
6.	10:20:22.730	UMTS FDD	2100	Nor	11023.		10:20:16.371	10562	53	-10.3	31768.	Downlink	10:20:06.104	DCCH	CALL PROCEEDING
	3 a				11024.	-110.3	10:20:16.798	10562	53		31769.	Uplink	10:20:06.575	DCCH	MEASUREMENT_REPORT
					11025.		10:20:16.798	10562	53	-10	31770.	Uplink	10:20:06.666	DCCH	MEASUREMENT_REPORT
					11026.	-116.1	10:20:17.424	10562	53	12207	31771.	Uplink	10:20:07.476	DCCH	MEASUREMENT_REPORT
					11027,		10:20:17.424	10562	53	-12.3	31772.	Downlink	10:20:07.574	DCCH	ACTIVE_SET_UPDATE
					11028.	-113.8	10:20:17.798	10562	53		31773,	Uplink	10:20:07.586	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					11029.		10:20:17.798	10562	53	-10.1	31774.	Downlink	10:20:07.694	DCCH	MEASUREMENT_CONTROL
					11030.	-113	10:20:18.495	10562	53		31775.	Uplink	10:20:08.559	DCCH	MEASUREMENT_REPORT
					11031.		10:20:18.495	10562	53	-11.5	31776,	Downlink	10:20:08.654	DCCH	ACTIVE_SET_UPDATE
					11032.	-117.4	10:20:19.007	10562	53		31777.	Uplink	10:20:08.685	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					11033.		10:20:19.007	10562	53	-13.7	31778.	Downlink	10:20:08.784	DCCH	MEASUREMENT_CONTROL
					11034.	-119.3	10:20:19.594	10562	53		31779.	Uplink	10:20:09.006	DCCH	MEASUREMENT_REPORT
					11035,		10:20:19.594	10562	53	-16.5	31780.	Uplink	10:20:09.306	DCCH	MEASUREMENT_REPORT
					11036.	-116	10;20:20.234	10562	53		31781.	Downlink	10:20:09.414	DCCH	ACTIVE_SET_UPDATE
					11037.		10:20:20.234	10562	53	-13.7	31782.	Uplink	10:20:09.425	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					11038.	-114.2	10:20:20.805	10562	53	121022	31783.	Downlink	10:20:09.544	DCCH	MEASUREMENT_CONTROL
					11039.		10:20:20.805	10562	53	-10.6	31784.	Uplink	10:20:10.846	DCCH	MEASUREMENT_REPORT
					11040.	-116.3	10:20:21.227	10562	53		31785.	Downlink	10:20:11.523	DCCH	RADIO_BEARER_SETUP
					11041.		10:20:21.227	10562	53	-11.6	31786.	Uplink	10:20:11.877	DCCH	RADIO_BEARER_SETUP_COMPLETE
					11042.	-118.6	10:20:21.495	10562	53	무	31787.	Downlink	10:20:12.164	DCCH	RADIO_BEARER_RECONFIGURATION
					11043.		10:20:21.495	10562	53	-14.8	31788.	Downlink	10:20:12.204	DCCH	DOWNLINK_DIRECT_TRANSFER
					11044.	-121.2	10:20:22.267	10562	53		31789,	Downlink	10:20:12.204	DCCH	PROGRESS
					11045,		10:20:22.267	10562	53	-16.6	31790.	Uplink	10:20:12.200	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					11046.	-112	10:20:22.964	10562	53		31791.	Uplink	10:20:12.835	DCCH	MEASUREMENT_REPORT
					11047.		10:20:22.964	10562	53	-10.5	31792.	Uplink	10:20:14.396	DCCH	MEASUREMENT_REPORT
					11048.	-109.1	10:20:29.626	10562	53		31793,	Uplink	10:20:14.39(DCCH	MEASUREMENT_REPORT
					11049.		10:20:29.626	10562	53	-10.3	31794.	Downlink	10:20:14.764	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					11050,	-116.9	10:20:30.343	10562	53		31795.	Uplink	10:20:14.806	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					11051.		10:20:30.343	10562	53	-13.2	31796.	Downlink	10:20:15.444	DCCH	MEASUREMENT_CONTROL
					11052.	-109.3	10:20:31.480	10562	53		31797.	Uplink	10:20:15.810	DCCH	MEASUREMENT_REPORT
					11053.		10:20:31,480	10562	53	-8.3	31798.	Uplink	10:20:17.823	DCCH	MEASUREMENT REPORT

- This call failure event occurred on short call at 10:20:22:730 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the failure, UE was latched with PSC 53 and RF condition RSCP -121.2 dBm poor but Ec/No -16.6 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

Phase-1 Call Attempt Failure Analysis 1 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su	b 🔺		System	Transf. dir.	Time	Subchannel	Message name
t,	7:48:52.571	GSM	900	Dro	233.	7:48:40.101						0		1144.	GSM	Downlink	7:48:38.624	SACCH	MEASUREMENT_INFORMATION
2.	7:49:40.192	GSM	900	Dro	234.	7:48:40.571	-87	21	25	1	0			1145.	GSM	Uplink	7:48:38.688	SACCH	MEASUREMENT_REPORT
3.	7:52:43.366	UMTS FDD	2100	Tim	235.	7:48:40.571						0	_	1146.	GSM	Downlink	7:48:39,094	SACCH	MEASUREMENT_INFORMATION
4.	7:59:55.797	UMTS FDD	2100	Nor	236.	7:48:41.042	-99	21	25	1	0			1147.	GSM	Uplink	7:48:39.159	SACCH	MEASUREMENT_REPORT
5.	8:01:40.528	GSM	900	Dro	237.	7;48:41.042						0		1148.	GSM	Downlink	7:48:39,491	DCCH	TMSI_REALLOCATION_COMMAND
6.	8:12:53.216	UMTS FDD	2100	Dro	238.	7:48:41.513	-82	21	25	1	0			1149.	GSM	Uplink	7:48:39.492	DCCH	TMSI_REALLOCATION_COMPLETE
7.	8:16:02.209	UMTS FDD	2100	Dro	239.	7:48:41.513						0		1150.	GSM	Downlink	7:48:39.565	SACCH	MEASUREMENT_INFORMATION
8.	8:39:48.919	UMTS FDD	2100	Tim	240.	7:48:42.172	-82	21	25	1	0			1151.	GSM	Uplink	7:48:39.630	SACCH	MEASUREMENT_REPORT
9.	8:58:51.607	UMTS FDD	2100	Dro	241.	7:48:42.551	-83	21	25	1	0			1152.	GSM	Downlink	7:48:40.036	SACCH	SYSTEM_INFORMATION_TYPE_5
10.	9:22:11.431	UMTS FDD	2100	Call	242.	7:48:43.102	-84	21	25	1	0			1153.	GSM	Uplink	7:48:40.101	SACCH	MEASUREMENT_REPORT
11.	9:23:47.832	UMTS FDD	2100	Dro	243.	7:48:43.567	-84	21	25	1	0			1154.	GSM	Downlink	7:48:40,197	DCCH	CALL_PROCEEDING
12,	10:00:33.409	GSM	900	Tim	244.	7:48:44.173	-85	21	25	1	0			1155.	GSM	Downlink	7:48:40.507	SACCH	SYSTEM_INFORMATION_TYPE_STER
13,	10:11:09.275	UMTS FDD	2100	Dro	245.	7:48:44.539	-84	21	25	1	0			1156.	GSM	Uplink	7:48:40.571	SACCH	MEASUREMENT_REPORT
	3				246.	7:48:45.173	-84	21	25	1	0			1157.	GSM	Downlink	7:48:40.977	SACCH	SYSTEM_INFORMATION_TYPE_6
					247.	7:48:45.807	-83	21	25	1	0			1158.	GSM	Uplink	7:48:41.042	SACCH	MEASUREMENT_REPORT
					248.	7:48:46.691	-83	21	25	1	0			1159.	GSM	Downlink	7:48:41.448	SACCH	MEASUREMENT_INFORMATION
					249.	7:48:47.259	-83	21	25	1	0			1160.	GSM	Uplink	7:48:41.513	SACCH	MEASUREMENT_REPORT
					250.	7:48:47.730	-86	21	25	1	0			1161.	GSM	Downlink	7:48:41.919	SACCH	MEASUREMENT_INFORMATION
					251.	7:48:48.200	-85	21	25	1	0			1162.	GSM	Uplink	7:48:41.984	SACCH	MEASUREMENT_REPORT
					252.	7:48:48.671	-88	21	25	1	0			1163.	GSM	Downlink	7:48:42.390	SACCH	MEASUREMENT_INFORMATION
					253.	7:48:49.206	-90	21	25	1	0			1164.	GSM	Uplink	7:48:42.454	SACCH	MEASUREMENT_REPORT
				1	254.	7:48:49.613	-83	21	25	1	0			1165.	GSM	Downlink	7:48:42.860	SACCH	MEASUREMENT_INFORMATION
					255.	7:48:49.987						0		1166.	GSM	Uplink	7:48:42.925	SACCH	MEASUREMENT_REPORT
					256.	7:48:50.392	-94	21	25	1	0			1167.	GSM	Downlink	7:48:43.331	SACCH	MEASUREMENT_INFORMATION
					257.	7:48:50.457						0		1168,	GSM	Uplink	7:48:43.396	SACCH	MEASUREMENT_REPORT
					258.	7:48:50.928	-89	21	25	1	0			1169.	GSM	Downlink	7:48:43,802	SACCH	SYSTEM_INFORMATION_TYPE_5
					259.	7:48:51.399						0		1170.	GSM	Uplink	7:48:43.867	SACCH	MEASUREMENT_REPORT
					260.	7:48:51.496	-91	21	25	1	0			1171.	GSM	Downlink	7:48:44.273	SACCH	SYSTEM_INFORMATION_TYPE_STER
					261.	7:48:51.870						4		1172.	GSM	Uplink	7:48:44.337	SACCH	MEASUREMENT_REPORT
					262.	7:48:52.191	-88	21	25	1	0			1173.	GSM	Downlink	7:48:44,744	SACCH	SYSTEM_INFORMATION_TYPE_6
					263.	7:48:52.191						4		1174.	GSM	Uplink	7:48:44.808	SACCH	MEASUREMENT_REPORT
					264.	7:48:52.445						4		1175.	GSM	Downlink	7:48:45.214	SACCH	MEASUREMENT_INFORMATION
				1	265,	7:48:52.491				;		0		1176,	GSM	Uplink	7:48:45.279	SACCH	MEASUREMENT_REPORT
					266.	7:48:52.519	-89	25	25	1	0			1177.	GSM	Downlink	7:48:45,685	SACCH	MEASUREMENT_INFORMATION
					267.	7:48:53.082								1178.	GSM	Uplink	7:48:45.750	SACCH	MEASUREMENT_REPORT
					268.	7:49:25.765	-69	21	25	1				1179.	GSM	Downlink	7:48:46.156	SACCH	MEASUREMENT INFORMATION

- This call failure event occurred on short short call at 07:48:52:571 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the session UE was latched with ARFCN 25 and RF condition Rx lev -89 dBm is good and Rx qual 4 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-1 Call Attempt Failure Analysis 2 From MS7 CWS MO

	Time	System	Serving band	100		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub +		System	Transf. dir.	Time	Subchannel	Message name
1.	7:48:52.571	GSM	900	Dro	280.	7:49:30.473						0	1320.	GSM	Downlink	7:49:29.900	SACCH	SYSTEM_INFORMATION_TYPE_STER
2.	7:49:40.192	G5M	900	Dro	281.	7:49:30.944	-83	21	25	1			1321,	GSM	Uplink	7:49:30.002	SACCH	MEASUREMENT_REPORT
3.	7:52:43.366	UMTS FDD	2100	Tim	282.	7:49:30.944						0	1322.	GSM	Downlink	7:49:30.297	DCCH	CM_SERVICE_ACCEPT
4,	7:59:55.797	UMTS FDD	2100	Nor	283.	7:49:31.414						0	1323.	GSM	Uplink	7:49:30.297	DCCH	SETUP
5,	8:01:40.528	GSM	900	Dro	284.	7:49:31.474	-78	21	25	1			1324.	GSM	Downlink	7:49:30.371	SACCH	SYSTEM_INFORMATION_TYPE_6
6.	8:12:53.216	UMTS FDD	2100	Dro	285,	7:49:31.885						0	1325,	GSM	Uplink	7:49:30.473	SACCH	MEASUREMENT_REPORT
7.	8:16:02.209	UMTS FDD	2100	Dro	286.	7:49:32.254	-83	21	25	16			1326.	GSM	Downlink	7:49:30.768	DCCH	CALL_PROCEEDING
8,	8:39:48.919	UMTS FDD	2100	Tim	287.	7:49:32.356						0	1327,	GSM	Downlink	7:49:30.842	SACCH	MEASUREMENT_INFORMATION
9.	8:58:51.607	UMTS FDD	2100	Dro	288.	7:49:32.422	-79	21	25	1			1328.	GSM	Uplink	7:49:30.944	SACCH	MEASUREMENT_REPORT
10,	9:22:11.431	UMTS FDD	2100	Call	289.	7:49:32.827						4	1329.	GSM	Downlink	7:49:31.312	SACCH	MEASUREMENT_INFORMATION
11.	9:23:47.832	UMTS FDD	2100	Dro	290.	7:49:33.206	-92	21	25	1			1330,	GSM	Uplink	7:49:31.414	SACCH	MEASUREMENT_REPORT
12,	10:00:33.409	GSM	900	Tim	291.	7:49:33.297						3	1331,	GSM	Downlink	7:49:31.783	SACCH	MEASUREMENT_INFORMATION
13.	10:11:09.275	UMTS FDD	2100	Dro	292.	7:49:33.498	-81	21	25	1			1332.	GSM	Uplink	7:49:31.885	SACCH	MEASUREMENT_REPORT
					293.	7:49:33.768						0	1333.	GSM	Downlink	7:49:32.254	SACCH	MEASUREMENT_INFORMATION
					294.	7:49:34.173	-81	21	25	1			1334.	GSM	Uplink	7:49:32.356	SACCH	MEASUREMENT_REPORT
					295.	7:49:34.239	- <u>2</u>					0	1335.	GSM	Downlink	7:49:32.725	SACCH	MEASUREMENT_INFORMATION
					296,	7;49:34.710	-80	21	25	1			1336,	GSM	Uplink	7:49:32.827	SACCH	MEASUREMENT_REPORT
				- 1	297.	7:49:34.710						0	1337.	GSM	Downlink	7:49:33.196	SACCH	SYSTEM_INFORMATION_TYPE_5
					298,	7:49:35.180	-82	21	25	1			1338.	GSM	Uplink	7:49:33.297	SACCH	MEASUREMENT_REPORT
					299.	7:49:35.651						0	1339.	GSM	Downlink	7:49:33.666	SACCH	SYSTEM_INFORMATION_TYPE_STER
					300.	7:49:35.711	-83	21	25	1			1340.	GSM	Uplink	7:49:33.768	SACCH	MEASUREMENT_REPORT
					301.	7:49:36.122	-83	21	25	1			1341,	GSM	Downlink	7:49:34.137	SACCH	SYSTEM_INFORMATION_TYPE_6
					302.	7:49:36.122						0	1342,	GSM	Uplink	7:49:34.239	SACCH	MEASUREMENT_REPORT
					303.	7;49:36.652	-82	21	25	12			1343.	GSM	Downlink	7:49:34.608	SACCH	MEASUREMENT_INFORMATION
					304.	7:49:37.174	-83	21	25	1			1344.	GSM	Uplink	7:49:34.710	SACCH	MEASUREMENT_REPORT
					305.	7:49:37.534	-82	21	25	1			1345,	GSM	Downlink	7:49:35.079	SACCH	MEASUREMENT_INFORMATION
					306.	7:49:38.374	-83	21	25	1			1346.	GSM	Uplink	7:49:35.180	SACCH	MEASUREMENT_REPORT
					307.	7:49:38.771	-84	21	25	1			1347,	GSM	Downlink	7:49:35.550	SACCH	MEASUREMENT_INFORMATION
					308,	7:49:38.946						0	1348,	GSM	Uplink	7:49:35.651	SACCH	MEASUREMENT_REPORT
					309,	7:49:39.173	-87	21	25	1			1349,	GSM	Downlink	7:49:36.020	SACCH	MEASUREMENT_INFORMATION
				1	310.	7:49:39.417						0	1350,	GSM	Uplink	7:49:36.122	SACCH	MEASUREMENT_REPORT
					311.	7:49:39.648						7	1351.	GSM	Downlink	7:49:36.491	SACCH	MEASUREMENT_INFORMATION
					312.	7:49:40.082						7	1352.	GSM	Uplink	7:49:36.593	SACCH	MEASUREMENT_REPORT
					313.	7:49:40.098	-83	25	25	1			1353.	GSM	Downlink	7:49:36.962	SACCH	SYSTEM_INFORMATION_TYPE_5
				1	314.	7:49:40.128						0	1354.	GSM	Uplink	7:49:37.063	SACCH	MEASUREMENT_REPORT
				1	315.	7:49:40.562						-	1355.	GSM	Downlink	7:49:37.432	SACCH	SYSTEM INFORMATION TYPE STER

- This call failure event occurred on short short call at 07:49:40:192 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the session UE was latched with ARFCN 25 and RF condition Rx lev -83 dBm is good and Rx qual 7 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

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Phase-1 Call Attempt Failure Analysis 3 From MS7 CWS MO

	Time	System	Serving ban	d		1. best active RSCP	Time	Ch S	C 1. best active Ec/N0 +		Event ID	System Transf. dir.	Time	Subchannel	Message name	
1.	7:48:52.571	GSM	900	Dro	217.	-115	7:52:38.122	10690 1	50	1694.	RRCSM	UMTS FDD Downlink	7:52:38.122	DCCH	RADIO_BEARER_SETUP	Analysis
2.	7:49:40.192	GSM	900	Dro	218.		7:52:38.122	10690 1	50 -13.5	1695.	RRCSM	UMTS FDD Uplink	7:52:38.429	DCCH	RADIO_BEARER_SETUP_COMPLETE	Allarysis.
3.	7:52:43.366	UMTS FDD	2100	Tim	219.	-119.4	7:52:38.620	10690 1	50	1696.	RRCSM	UMTS FDD Downlink	7:52:38.652	DCCH	MEASUREMENT_CONTROL	• This call failure event occurred on short
4.	7:59:55.797	UMTS FDD	2100	Not	220.		7:52:38.620	10690 1	50 -15.7	1697.	RRCSM	UMTS FDD Downlink	7:52:38.692	DCCH	MEASUREMENT_CONTROL	call at 07:52:43:366 time when UE was
5.	8:01:40.528	GSM	900	Dro	221.	-115.2	7:52:39.150	10690 1	50	1698.	RRCSM	UMTS FDD Downlink	7:52:38.732	DCCH	MEASUREMENT_CONTROL	latched with 3G network.
6,	8:12:53.216	UMTS FDD	2100	Dro	222,		7:52:39.150	10690 1	50 -9.4	1699.	RRCSM	UMTS FDD Downlink	7:52:38.772	DCCH	MEASUREMENT_CONTROL	
7.	8:16:02.209	UMTS FDD	2100	Dro	223.	-115.2	7:52:39.725	10715 1	50	1700.	RRCSM	UMTS FDD Downlink	7:52:38.812	DCCH	MEASUREMENT_CONTROL	• During the session before the call failure
8.	8:39:48.919	UMTS FDD	2100	Tim	224.		7:52:39.725	10690 1	50 -13.9	1701,	RRCSM	UMTS FDD Downlink	7:52:38.852	DCCH	MEASUREMENT_CONTROL	UE send " Service Request". Then call
9.	8:58:51.607	UMTS FDD	2100	Dro	225.	-113.6	7:52:40.270	10690 1	50	1702.	RRCSM	UMTS FDD Downlink	7:52:38.932	DCCH	DOWNLINK_DIRECT_TRANSFER	setup has been failed.
10,	9:22:11.431	UMTS FDD	2100	Call	226.		7:52:40.270	10690 1	50 -11.4	1703.	L3SM	UMTS FDD Downlink	7:52:38.932	DCCH	MODIFY_PDP_CONTEXT_REQUEST	
11.	9:23:47.832	UMTS FDD	2100	Dro	227.	-114.8	7:52:40.734	10715 1	50	1704.	RRCSM	UMTS FDD Uplink	7:52:38.934	DCCH	UPLINK_DIRECT_TRANSFER	During the failure, UE was latched with
12,	10:00:33.409	GSM	900	Tim	228.		7:52:40.734	10690 1	50 -13.4	1705.	L3SM	UMTS FDD Uplink	7:52:38.934	DCCH	MODIFY_PDP_CONTEXT_ACCEPT	PSC 150 and RF condition RSCP -111.4
13.	10:11:09.275	UMTS FDD	2100	Dro	229.	-108.3	7:52:41.363	10690 1	50	1706.	RRCSM	UMTS FDD Uplink	7:52:39.503	DCCH	MEASUREMENT_REPORT	dBm poor but Ec/No -11.1 dB are very
mandradm					230.		7:52:41.363	10690 1	50 -6.8	1707.	RRCSM	UMTS FDD Uplink	7:52:39.945	DCCH	MEASUREMENT_REPORT	good.
				17	231.	-113.6	7:52:41.856	10690 1	50	1708.	RRCSM	UMTS FDD Uplink	7:52:39.984	DCCH	MEASUREMENT_REPORT	
					232.		7:52:41.856	10690 1	50 -11.4	1709.	RRCSM	UMTS FDD Uplink	7:52:40.653	DCCH	MEASUREMENT_REPORT	Call failed due to poor network coverage
					233.	-108	7:52:42.334	10690 1	50	1710.	RRCSM	UMTS FDD Downlink	7:52:40.732	DCCH	RADIO_BEARER_RECONFIGURATION	at the MO site. Insufficient signal strength
					234.	1985	7:52:42.334	10690 1	50 -7	1711.	RRCSM	UMTS FDD Uplink	7:52:41.379	DCCH	RADIO_BEARER_RECONFIGURATION_CO	in the area is causing call failures.
					235,	-109.3	7:52:42.835	10690 1	50	1712.	RRCSM	UMTS FDD Downlink	7:52:41.652	DCCH	MEASUREMENT_CONTROL	
					236.		7:52:42.835	10690 1	50 -8.9	1713.	RRCSM	UMTS FDD Uplink	7:52:42.303	DCCH	MEASUREMENT_REPORT	
					237.	-111.4	7:52:43.366	10690 1	50	1714.	RRCSM	UMTS FDD Uplink	7:52:42.653	DCCH	MEASUREMENT_REPORT	
					238.		7:52:43,366	10690 1	50 -11.1	1715.	RRCSM	UMTS FDD Downlink	7:52:43.132	DCCH	RADIO_BEARER_RECONFIGURATION	
					239.	-110.2	7:52:43.834	10715 1	50	1716.	RRCSM	UMTS FDD Uplink	7:52:43.778	DCCH	RADIO_BEARER_RECONFIGURATION_CO	
					240.		7:52:43.834	10690 1	50 -10.4	1717.	RRCSM	UMTS FDD Uplink	7:52:44.633	DCCH	MEASUREMENT_REPORT	
					241.	-109.1	7:52:44.434	10715 1	50	1718.	RRCSM	UMTS FDD Uplink	7:52:44.653	DCCH	MEASUREMENT_REPORT	
					242.		7:52:44.434	10715 1	50 -14.3	1719.	RRCSM	UMTS FDD Uplink	7:52:46.653	DCCH	MEASUREMENT_REPORT	
					243.	-107.7	7:52:44.975	10690 1	50	1720.	RRCSM	UMTS FDD Uplink	7:52:47.820	DCCH	SIGNALLING_CONNECTION_RELEASE_INE	
					244.	and a second sec	7:52:44.975	10690 1	50 -7.8	1721,	RRCSM	UMTS FDD Downlink	7:52:48.012	DCCH	RRC_CONNECTION_RELEASE	
				1	245.	-109	7:52:45.376	10715 1	50	1722.	RRCSM	UMTS FDD Uplink	7:52:48.013	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					246.		7:52:45.376	10715 1	50 -10.6	1723.	RRCSM	UMTS FDD Uplink	7:52:48.053	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					247,	-106	7:52:45.875	10690 1	50	1724.	RRCSM	UMTS FDD Downlink	7:52:48.255	BCCH_BCH	SYSTEM_INFORMATION_BCH	
					248.	2000	7:52:45.875	10690 1	50 -7.5	1725.	RRCSM	UMTS FDD Downlink	7:52:48.255	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2	
					249.	-113	7:52:46.335	10690 1	50	1726.	RRCSM	UMTS FDD Downlink	7:52:48.255	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3	
				Pio Pio	250.		7:52:46.335	10690 1	50 -12	1727.	RRCSM	UMTS FDD Downlink	7:52:48.275	BCCH_BCH	SYSTEM_INFORMATION_BCH	
					251	-108.2	7:52:46.815	10690 1	50	1728	PRCSM	LIMTS EDD Downlink	7-52-48 205	BCCH BCH	SYSTEM INFORMATION BCH	

Phase-1 Call Attempt Failure Analysis 4 From MS7 CWS MO

	Time	System	Serving	band		1. best active RSCP	Time	Ch	SC 1. best active Ec/NO 🔺		Event ID	System Transf. dir.	Time	Subchanne	l Message name	
1.	7:48:52.571	GSM	900	Dro	646.	-117.1	7:59:48.348	10690	50	3386,	RRCSM	UMTS FDD Downlink	7:59:42.833	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_19	Analysis
2,	7:49:40.192	GSM	900	Dro	647.		7:59:48.348	10690 1	50 -16.8	3387.	RRCSM	UMTS FDD Downlink	7:59:42.846	СССН	RRC_CONNECTION_SETUP	• This call failure event accurred on short
3.	7:52:43.366	UMTS FDD	2100	Tim	648.	-122.9	7:59:49.168	10690 1	50	3388.	RRCSM	UMTS FDD Uplink	7:59:42.904	DCCH	RRC_CONNECTION_SETUP_COMPLETE	
4.	7:59:55.797	UMTS FDD	2100	Nor	649.		7:59:49.168	10690	50 -20.6	3389,	RRCSM	UMTS FDD Uplink	7:59:42.904	DCCH	INITIAL_DIRECT_TRANSFER	call at 07:59:55:797 time when UE was
5.	8:01:40.528	GSM	900	Dro	650,	-119.7	7:59:49.449	10690 1	50	3390.	L3SM	UMTS FDD Uplink	7:59:42.904	DCCH	CM_SERVICE_REQUEST	latched with 3G network.
6.	8:12:53.216	UMTS FDD	2100	Dro	651.		7:59:49.449	10690 1	50 -18.2	3391.	RRCSM	UMTS FDD Uplink	7:59:42.904	DCCH	INITIAL_DIRECT_TRANSFER	
7.	8:16:02.209	UMTS FDD	2100	Dro	652.	-131.7	7:59:51.098	10690	50	3392.	L3SM	UMTS FDD Uplink	7:59:42.904	DCCH	ROUTING_AREA_UPDATE_REQUEST	 After sending "CM Service Request"
8.	8:39:48.919	UMTS FDD	2100	Tim	653.	-124.7	7:59:51.686	10690	50	3393.	RRCSM	UMTS FDD Downlink	7:59:43.407	DCCH	MEASUREMENT_CONTROL	message to core network, then core
9.	8:58:51.607	UMTS FDD	2100	Dro	654.		7:59:51.686	10690	50 -21.8	3394,	RRCSM	UMTS FDD Downlink	7:59:43.437	DCCH	SECURITY_MODE_COMMAND	network responds with "Call Proceeding "
10.	9:22:11.431	UMTS FDD	2100	Call	655.	-118.9	7:59:52.329	10690 1	50	3395.	RRCSM	UMTS FDD Uplink	7:59:43.438	DCCH	SECURITY_MODE_COMPLETE	message. After that call setup has been
11,	9:23:47.832	UMTS FDD	2100	Dro	656.		7:59:52.329	10690 1	50 -14.3	3396.	RRCSM	UMTS FDD Uplink	7:59:43.518	DCCH	UPLINK_DIRECT_TRANSFER	failed.
12.	10:00:33.409	GSM	900	Tim	657.	-126	7:59:52.650	10690	50	3397.	L3SM	UMTS FDD Uplink	7:59:43.518	DCCH	SETUP	
13,	10:11:09.275	UMTS FDD	2100	Dro	658,		7:59:52.650	10690 1	50 -23.1	3398,	RRCSM	UMTS FDD Downlink	7:59:43.537	DCCH	DOWNLINK_DIRECT_TRANSFER	During the failure UE was latched with
					659,	-129.8	7:59:53.426	10690 1	50	3399.	L3SM	UMTS FDD Downlink	7:59:43.537	DCCH	TMSI_REALLOCATION_COMMAND	PSC 150 and RE condition RSCP -131.8
					660.		7:59:53.426	10690 1	50 -24.1	3400,	RRCSM	UMTS FDD Uplink	7:59:43.538	DCCH	UPLINK_DIRECT_TRANSFER	dPm poor but Ec/No. 20 E dP are very
					661.	-125.1	7:59:53.709	10690	50	3401.	L3SM	UMTS FDD Uplink	7:59:43.538	DCCH	TMSI_REALLOCATION_COMPLETE	
					662.		7:59:53.709	10690 1	50 -19.3	3402,	RRCSM	UMTS FDD Downlink	7:59:43.677	DCCH	DOWNLINK_DIRECT_TRANSFER	poor.
					663.	-120.4	7:59:54.348	10690 1	50	3403.	L3SM	UMTS FDD Downlink	7:59:43.677	DCCH	CALL_PROCEEDING	
					664.		7:59:54.348	10690	50 -14.7	3404.	RRCSM	UMTS FDD Downlink	7:59:44.997	DCCH	RADIO_BEARER_SETUP	Call failed due to poor network coverage
					665.	-120.4	7:59:54.478	10690	50	3405.	RRCSM	UMTS FDD Uplink	7:59:45.230	DCCH	RADIO_BEARER_SETUP_COMPLETE	at the MO site. Insufficient signal strength
					666.		7:59:54.478	10690 1	50 -14.7	3406.	RRCSM	UMTS FDD Downlink	7:59:45.477	DCCH	MEASUREMENT_CONTROL	in the area is causing call failures.
					667.	-125.2	7:59:54.689	10690 1	50	3407.	RRCSM	UMTS FDD Downlink	7:59:45.517	DCCH	MEASUREMENT_CONTROL	
					668.		7:59:54.689	10690	50 -20.5	3408.	RRCSM	UMTS FDD Downlink	7:59:45.557	DCCH	MEASUREMENT_CONTROL	
					669.	-131.8	7:59:55.348	10690	50	3409.	RRCSM	UMTS FDD Downlink	7:59:45.597	DCCH	MEASUREMENT_CONTROL	
					670.	-131.8	7:59:55,478	10690	50	3410.	RRCSM	UMTS FDD Downlink	7:59:45.757	DCCH	DOWNLINK_DIRECT_TRANSFER	
					671.	-118.8	7:59:56.095	10690 1	50	3411.	L3SM	UMTS FDD Downlink	7:59:45.757	DCCH	AUTHENTICATION_AND_CIPHERING_REC	
					672.		7:59:56.095	10690	50 -15.9	3412.	RRCSM	UMTS FDD Uplink	7:59:45.795	DCCH	UPLINK_DIRECT_TRANSFER	
					673.	-118.8	7:59:56.479	10690	50	3413,	L3SM	UMTS FDD Uplink	7:59:45.795	DCCH	AUTHENTICATION_AND_CIPHERING_RES	
					674.		7:59:56.479	10690 1	50 -15.9	3414,	RRCSM	UMTS FDD Uplink	7:59:45.850	DCCH	MEASUREMENT_REPORT	
					675.	-120.6	7:59:56.480	10690 1	50	3415.	RRCSM	UMTS FDD Downlink	7:59:46.157	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
					676.		7:59:56.480	10690	50 -16.8	3416.	RRCSM	UMTS FDD Uplink	7:59:46.310	DCCH	MEASUREMENT_REPORT	
					677.	-120.8	7:59:56.989	10690	50	3417.	RRCSM	UMTS FDD Uplink	7:59:46.949	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
					678.		7:59:56.989	10690 1	50 -17.2	3418,	RRCSM	UMTS FDD Downlink	7:59:47.477	DCCH	MEASUREMENT_CONTROL	
					679.	-120.8	7:59:57.197	10690 1	50	3419.	RRCSM	UMTS FDD Downlink	7:59:48.077	DCCH	SECURITY_MODE_COMMAND	
					680.	1000	7:59:57.197	10690	50 -17.2	3420.	RRCSM	UMTS FDD Uplink	7:59:48.077	DCCH	SECURITY_MODE_COMPLETE	
					681.	-113	8:00:29,694	10690	50	3421.	RRCSM	UMTS FDD Uplink	7:59:48.478	DCCH	MEASUREMENT_REPORT	

Phase-1 Call Attempt Failure Analysis 5 From MS7 CWS MO

	Time	System	Serving band	- 1		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub 🔺		System	Transf. dir.	Time	Subchannel	Message name
1.	7:48:52.571	GSM	900	Dro	825.	8:01:11.181	-99	20	27	1	0		3921.	UMTS FDD	Downlink	8:01:38.053	DCCH	HANDOVER_COMMAND
2.	7:49:40.192	GSM	900	Dro	826.	8:01:11.712	-99	20	27	1	0		3922.	GSM	Downlink	8:01:38.071	DCCH	HANDOVER_COMMAND
З.	7:52:43.366	UMTS FDD	2100	Tim	827,	8:01:12.331	-99	20	27	1	0		3923,	GSM	Downlink	8:01:38.190	DCCH	PHYSICAL_INFORMATION
4.	7:59:55.797	UMTS FDD	2100	Nor	828.	8:01:12.784	-99	20	27	1	0		3924,	GSM	Uplink	8:01:38.190	DCCH	HANDOVER_COMPLETE
5.	8:01:40.528	GSM	900	Dro	829.	8:01:13.213	-99	20	27	1	0		3925.	GSM	Downlink	8:01:38.250	DCCH	PHYSICAL_INFORMATION
6.	8:12:53.216	UMTS FDD	2100	Dro	830.	8:01:13.492	-99	20	27	1	0		3926.	GSM	Uplink	8:01:38,302	DCCH	GPRS_SUSPENSION_REQUEST
7.	8:16:02.209	UMTS FDD	2100	Dro	831.	8:01:17.334				1	0		3927.	GSM	Uplink	8:01:38,425	SACCH	MEASUREMENT_REPORT
8.	8:39:48.919	UMTS FDD	2100	Tim	832.	8:01:38.425	-95	25	27				3928.	GSM	Downlink	8:01:38.430	DCCH	IDENTITY_REQUEST
9,	8:58:51.607	UMTS FDD	2100	Dro	833.	8:01:38.425						7	3929.	GSM	Uplink	8:01:38,430	DCCH	IDENTITY_RESPONSE
10.	9:22:11.431	UMTS FDD	2100	Call	834,	8:01:39.173	-95	25	27				3930.	GSM	Downlink	8:01:38.859	SACCH	SYSTEM_INFORMATION_TYPE_5
11.	9:23:47.832	UMTS FDD	2100	Dro	835,	8:01:39.173						4	3931.	GSM	Uplink	8:01:38.905	SACCH	MEASUREMENT_REPORT
12.	10:00:33.409	GSM	900	Tim	836.	8:01:39.820						3	3932.	GSM	Downlink	8:01:39.339	SACCH	SYSTEM_INFORMATION_TYPE_STER
13.	10:11:09.275	UMTS FDD	2100	Dro	837.	8:01:39.833	-94	25	27	1	10		3933.	GSM	Uplink	8:01:39.385	SACCH	MEASUREMENT_REPORT
					838.	8:01:39.865						5	3934.	GSM	Downlink	8:01:39.819	SACCH	SYSTEM_INFORMATION_TYPE_6
					839.	8:01:40.179	-95	25	27	1	10		3935.	GSM	Uplink	8:01:39.865	SACCH	MEASUREMENT_REPORT
					840.	8:01:40.345						6	3936.	GSM	Downlink	8:01:40.299	SACCH	MEASUREMENT_INFORMATION
					841.	8:01:40.652	-96	25	27	1	10		3937.	GSM	Downlink	8:01:40.331	DCCH	DISCONNECT
					842.	8:01:40.779							3938,	GSM	Uplink	8:01:40.345	SACCH	MEASUREMENT_REPORT
					843.	8:01:41.177	-96	25	27	1	10		3939.	GSM	Uplink	8:01:40,528	DECH	RELEASE
					844.	8:01:42.707	-94	20	27	1	0		3940.	GSM	Downlink	8:01:40.650	DCCH	RELEASE_COMPLETE
					845.	8:01:42.707						5	3941.	GSM	Downlink	8:01:40.751	DCCH	CHANNEL_RELEASE
					846.	8:01:43.177						0	3942.	GSM	Downlink	8:01:40.779	SACCH	MEASUREMENT_INFORMATION
				- 1	847.	8:01:43.218	-92	20	27	1	0		3943.	GSM	Downlink	8:01:41,497	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					848,	8:01:43.648						0	3944,	GSM	Downlink	8:01:41.737	BCCH	SYSTEM_INFORMATION_TYPE_3
					849.	8:01:43.689	-94	20	27	1	0		3945.	GSM	Downlink	8:01:41.756	BCCH	SYSTEM_INFORMATION_TYPE_1
					850,	8:01:44.119						0	3946,	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_2
					851.	8:01:44.180	-92	20	27	1	0		3947.	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					852,	8:01:44.590						0	3948,	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					853.	8:01:45.061						6	3949.	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					854.	8:01:45.268	-92	20	27	1	0		3950.	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					855.	8:01:45.531						6	3951.	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_13
				- 1	856.	8:01:45.729	-93	20	27	1	0		3952,	GSM	Downlink	8:01:41.757	BCCH	SYSTEM_INFORMATION_TYPE_4
					857.	8:01:46.002						3	3953.	GSM	Downlink	8:01:41.759	BCCH	SYSTEM_INFORMATION_TYPE_3
					858.	8:01:46.353	-93	20	27	1	0		3954.	GSM	Uplink	8:01:41.762	DCCH	LOCATION_UPDATING_REQUEST
				- 1	859.	8:01:46.473						1	3955.	GSM	Downlink	8:01:41.894	CCCH	IMMEDIATE ASSIGNMENT

- This call failure event occurred on short short call at 08:01:40:528 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the session UE was latched with ARFCN 25 and RF condition Rx lev -95 dBm is good and Rx qual 6 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-1 Call Attempt Failure Analysis 6 From MS7 CWS MO

	Time	System	Serving band	F		1. best active RSCP	Time	Ch	SC	1. best active Ec/NO	*		Event ID	System	Transf, dir.	Time	Subchannel	Message name	
1.	7:48:52.571	GSM	900	Dro	1238.		8:12:46.682	10690	150	-10.7		6519.	RRCSM	UMTS FDD	Uplink	8:12:40.237	DCCH	INITIAL_DIRECT_TRANSFER	Δ
2.	7:49:40.192	GSM	900	Dro	1239,	-116.2	8:12:47.265	10690	150			6520.	L3SM	UMTS FDD	Uplink	8:12:40.237	DCCH	CM_SERVICE_REQUEST	
3.	7:52:43.366	UMTS FDD	2100	Tim	1240,		8:12:47.265	10690	150	-13.4		6521.	RRCSM	UMTS FDD	Uplink	8:12:40.237	DCCH	INITIAL_DIRECT_TRANSFER	
4,	7:59:55.797	UMTS FDD	2100	Nor	1241,	-112.1	8:12:47.680	10690	150		_	6522.	L3SM	UMTS FDD	Uplink	8:12:40.237	DCCH	ROUTING_AREA_UPDATE_REQUEST	
5.	8:01:40.528	GSM	900	Dro	1242,	1932.00	8:12:47.680	10690	150	-11.2		6523,	RRCSM	UMTS FDD	Downlink	8:12:40.520	DCCH	MEASUREMENT_CONTROL	
б,	8:12:53.216	UMTS FDD	2100	Dro	1243.	-113.4	8:12:48.190	10690	150			6524.	RRCSM	UMTS FDD	Downlink	8:12:40.549	DCCH	SECURITY_MODE_COMMAND	
7.	8:16:02.209	UMTS FDD	2100	Dro	1244.		8:12:48.190	10690	150	-12.6		6525,	RRCSM	UMTS FDD	Uplink	8:12:40.550	DCCH	SECURITY_MODE_COMPLETE	
8,	8:39:48.919	UMTS FDD	2100	Tim	1245.	-113.7	8:12:48.680	10690	150			6526.	RRCSM	UMTS FDD	Uplink	8:12:40.630	DCCH	UPLINK_DIRECT_TRANSFER	
9.	8:58:51.607	UMTS FDD	2100	Dro	1246.	- 1986A	8:12:48.680	10690	150	-13.4		6527.	L3SM	UMTS FDD	Uplink	8:12:40.630	DCCH	SETUP	
10,	9:22:11.431	UMTS FDD	2100	Call	1247.	-107	8:12:49.202	10690	150			6528.	RRCSM	UMTS FDD	Downlink	8:12:40.659	DCCH	DOWNLINK_DIRECT_TRANSFER	
11.	9:23:47.832	UMTS FDD	2100	Dro	1248.		8:12:49.202	10690	150	-9.4		6529.	L3SM	UMTS FDD	Downlink	8:12:40.659	DCCH	TMSI_REALLOCATION_COMMAND	
12.	10:00:33.409	GSM	900	Tim	1249.	-113.3	8:12:49.680	10690	150			6530.	RRCSM	UMTS FDD	Uplink	8:12:40.660	DCCH	UPLINK_DIRECT_TRANSFER	
13.	10:11:09.275	UMTS FDD	2100	Dro	1250.		8:12:49.680	10690	150	-12.9		6531.	L3SM	UMTS FDD	Uplink	8:12:40.660	DCCH	TMSI_REALLOCATION_COMPLETE	•
					1251,	-118.6	8:12:50.382	10690	150			6532.	RRCSM	UMTS FDD	Downlink	8:12:40.789	DCCH	DOWNLINK_DIRECT_TRANSFER	
					1252.		8:12:50.382	10690	150	-14.8		6533.	L3SM	UMTS FDD	Downlink	8:12:40.789	DCCH	CALL_PROCEEDING	
					1253.	-117.7	8:12:50.682	10690	150			6534.	RRCSM	UMTS FDD	Uplink	8:12:41.862	DCCH	MEASUREMENT_REPORT	
					1254.		8:12:50.682	10690	150	-13.9		6535.	RRCSM	UMTS FDD	Uplink	8:12:44.979	DCCH	MEASUREMENT_REPORT	
					1255.	-114.4	8:12:51.292	10690	150			6536.	RRCSM	UMTS FDD	Downlink	8:12:45.589	DCCH	DOWNLINK_DIRECT_TRANSFER	•
					1256.		8:12:51.292	10690	150	-10.6		6537.	L3SM	UMTS FDD	Downlink	8:12:45.589	DCCH	AUTHENTICATION_AND_CIPHERING_REC	
					1257.	-120.2	8:12:51.912	10690	150			6538.	RRCSM	UMTS FDD	Uplink	8:12:45.627	DCCH	UPLINK_DIRECT_TRANSFER	
					1258.		8:12:51.912	10690	150	-16.5		6539.	L3SM	UMTS FDD	Uplink	8:12:45.627	DCCH	AUTHENTICATION_AND_CIPHERING_RES	
					1259,	-119.2	8:12:52.182	10690	150			6540.	RRCSM	UMTS FDD	Downlink	8:12:45,839	DCCH	SECURITY_MODE_COMMAND	
					1260.		8:12:52.182	10690	150	-15.4		6541.	RRCSM	UMTS FDD	Uplink	8:12:45.840	DCCH	SECURITY_MODE_COMPLETE	
					1261.	-115.5	8:12:52.895	10690	150			6542.	RRCSM	UMTS FDD	Downlink	8:12:46.279	DCCH	DOWNLINK_DIRECT_TRANSFER	
					1262.		8:12:52.895	10690	150	-14.7		6543.	L3SM	UMTS FDD	Downlink	8:12:46.279	DCCH	ROUTING_AREA_UPDATE_ACCEPT	
					1263.	-118.1	8:12:53.602	10690	150			6544.	RRCSM	UMTS FDD	Uplink	8:12:46.281	DCCH	UPLINK_DIRECT_TRANSFER	
					1264.		8:12:53.602	10690	150	-15.2		6545.	L3SM	UMTS FDD	Uplink	8:12:46.281	DCCH	ROUTING_AREA_UPDATE_COMPLETE	
					1265.	-118.4	8:12:54.180	10690	150			6546.	RRCSM	UMTS FDD	Downlink	8:12:52.379	DCCH	RADIO_BEARER_SETUP	
					1266,		8:12:54.180	10690	150	-14.8		6547.	RRCSM	UMTS FDD	Uplink	8:12:52.632	DCCH	RADIO_BEARER_SETUP_COMPLETE	
					1267.	-117.6	8:12:54.657	10690	150			6548.	RRCSM	UMTS FDD	Downlink	8:12:52.879	DCCH	MEASUREMENT_CONTROL	
					1268.		8:12:54.657	10690	150	-11.8		6549.	RRCSM	UMTS FDD	Downlink	8:12:52.919	DCCH	MEASUREMENT_CONTROL	
					1269.	-115.2	8:13:25.165	10690	150			6550.	RRCSM	UMTS FDD	Downlink	8:12:52.959	DCCH	MEASUREMENT_CONTROL	
					1270,		8:13:25.165	10690	150	-15.3		6551.	RRCSM	UMTS FDD	Downlink	8:12:52.999	DCCH	MEASUREMENT_CONTROL	
					1271.	-115.3	8:13:25.390	10690	150			6552.	RRCSM	UMTS FDD	Downlink	8:12:53.079	DCCH	DOWNLINK_DIRECT_TRANSFER	

- This call failure event occurred on short call at 08:12:53:216 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the failure, UE was latched with PSC 150 and RF condition RSCP -115.5 dBm poor but Ec/No -14.7 dB are very poor.
- Call failed due to poor network coverage at the MO site. Insufficient signal strength in the area is causing call failures.

Phase-1 Call Attempt Failure Analysis 7 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best active Ec/NO	•	1	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	7:48:52.571	GSM	900	Dro	1532.	-112.5	8:15:55.181	10690	150		and .	7310,	L3SM	UMTS FDD	Uplink	8:15:49.008	DCCH	SERVICE_REQUEST
2,	7:49:40.192	GSM	900	Dro	1533,	10050	8:15:55.181	10690	150	-9.7		7311.	RRCSM	UMTS FDD	Downlink	8:15:49.064	DCCH	RADIO_BEARER_RELEASE
З.	7:52:43.366	UMTS FDD	2100	Tim	1534.	-115	8:15:55.614	10690	150			7312.	RRCSM	UMTS FDD	Uplink	8:15:49.505	DCCH	MEASUREMENT_REPORT
4.	7:59:55.797	UMTS FDD	2100	Nor	1535.	- ADIANA	8:15:55.614	10690	150	-12.9		7313.	RRCSM	UMTS FDD	Uplink	8:15:49.605	DCCH	MEASUREMENT_REPORT
5,	8:01:40.528	GSM	900	Dro	1536.	-118	8:15:56.136	10690	150	-	_	7314.	RRCSM	UMTS FDD	Uplink	8:15:49.617	DCCH	RADIO_BEARER_RELEASE_COMPLETE
б.	8:12:53.216	UMTS FDD	2100	Dro	1537.		8:15:56.136	10690	150	-14.3		7315.	RRCSM	UMTS FDD	Downlink	8:15:49.864	DCCH	MEASUREMENT_CONTROL
7.	8:16:02.209	UMTS FDD	2100	Dro	1538.	-110.2	8:15:56.616	10690	150			7316.	RRCSM	UMTS FDD	Downlink	8:15:49.904	DCCH	MEASUREMENT_CONTROL
8.	8:39:48.919	UMTS FDD	2100	Tim	1539,		8:15:56.616	10690	150	-9.8		7317.	RRCSM	UMTS FDD	Downlink	8:15:49.944	DCCH	SECURITY_MODE_COMMAND
9,	8:58:51.607	UMTS FDD	2100	Dro	1540,	-113.2	8:15:57.181	10690	150			7318.	RRCSM	UMTS FDD	Uplink	8:15:49.944	DCCH	SECURITY_MODE_COMPLETE
10.	9:22:11.431	UMTS FDD	2100	Call	1541.		8:15:57.181	10690	150	-12.4		7319.	RRCSM	UMTS FDD	Uplink	8:15:50.117	DCCH	MEASUREMENT_REPORT
11,	9:23:47.832	UMTS FDD	2100	Dro	1542	-118.4	8:15:57.616	10690	150			7320.	RRCSM	UMTS FDD	Uplink	8:15:50.145	DCCH	UPLINK_DIRECT_TRANSFER
12.	10:00:33,409	GSM	900	Tim	1543,		8:15:57.616	10690	150	-14.7		7321.	L3SM	UMTS FDD	Uplink	8:15:50.145	DCCH	SETUP
13.	10:11:09.275	UMTS FDD	2100	Dro	1544,	-112.9	8:15:58.181	10690	150			7322.	RRCSM	UMTS FDD	Downlink	8:15:50.264	DCCH	MEASUREMENT_CONTROL
					1545.		8:15:58.181	10690	150	-12		7323.	RRCSM	UMTS FDD	Downlink	8:15:50,344	DCCH	DOWNLINK_DIRECT_TRANSFER
					1546.	-113.9	8:15:58.845	10590	150			7324.	L3SM	UMTS FDD	Downlink	8:15:50.344	DCCH	TMSI_REALLOCATION_COMMAND
					1547.	E STATE	8:15:58.845	10690	150	-13.1		7325.	RRCSM	UMTS FDD	Uplink	8:15:50.345	DCCH	UPLINK_DIRECT_TRANSFER
					1548,	-119.8	8:15:59.345	10690	150			7326.	L3SM	UMTS FDD	Uplink	8:15:50.345	DCCH	TMSI_REALLOCATION_COMPLETE
					1549.		8:15:59.345	10690	150	-16.2		7327.	RRCSM	UMTS FDD	Downlink	8:15:50.624	DCCH	DOWNLINK_DIRECT_TRANSFER
					1550.	-121	8:15:59.796	10690	150			7328.	L3SM	UMTS FDD	Downlink	8:15:50.624	DCCH	CALL_PROCEEDING
					1551,		8:15:59,796	10690	150	-15.3		7329.	RRCSM	UMTS FDD	Downlink	8:15:51.664	DCCH	MEASUREMENT_CONTROL
					1552.	-115.2	8:16:00.376	10690	150			7330.	RRCSM	UMTS FDD	Downlink	8:15:52.544	DCCH	RADIO_BEARER_SETUP
					1553.		8:16:00.376	10690	150	-9.6		7331.	RRCSM	UMTS FDD	Uplink	8:15:53.137	DCCH	RADIO_BEARER_SETUP_COMPLETE
					1554.	-117.9	8:16:00.845	10690	150			7332.	RRCSM	UMTS FDD	Downlink	8:15:53.384	DCCH	MEASUREMENT_CONTROL
					1555.	200000	8:16:00.845	10690	150	-14.2		7333.	RRCSM	UMTS FDD	Downlink	8:15:53.384	DCCH	MEASUREMENT_CONTROL
					1556.	-118.9	8:16:01.345	10690	150			7334,	RRCSM	UMTS FDD	Downlink	8:16:02.144	DCCH	DOWNLINK_DIRECT_TRANSFER
					1557.		8:16:01.345	10690	150	-16.6		7335.	L3SM	UMTS FDD	Downlink	8:16:02.144	DCCH	DISCONNECT
					1558.	-116.8	8:16:02.146	10690	150			7336.	RRCSM	UMTS FDD	Uplink	8:16:02.180	DCCH	UPLINK_DIRECT_TRANSFER
					1559,		8:16:02.146	10690	150	-14		7337.	L3SM	UMTS FDD	Uplink	8:16:02,180	DCCH	RELEASE
					1560.	-119.1	8:16:02.639	10690	150	110.0		7338.	RRCSM	UMTS FDD	Downlink	8:16:02.384	DCCH	DOWNLINK_DIRECT_TRANSFER
					1561.		8:16:02.639	10690	150	-13.3		7339.	L3SM	UMTS FDD	Downlink	8:16:02.384	DCCH	RELEASE_COMPLETE
					1562.	-113.7	8:16:03.081	10690	150			7340.	RRCSM	UMTS FDD	Downlink	8:16:02.544	DCCH	RRC_CONNECTION_RELEASE
					1563.		8:16:03.081	10690	150	-12-2		7341.	RRCSM	UMTS FDD	Uplink	8:16:02.544	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					1564.	-111.3	8:16:03.384	10690	150			7342,	RRCSM	UMTS FDD	Uplink	8:16:02.584	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					1565,		8:16:03.384	10690	150	-9		7343,	RRCSM	UMTS FDD	Downlink	8:16:02.778	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1566.	-112.3	8:16:04.035	10690	150			7344.	RRCSM	UMTS FDD	Downlink	8:16:02.798	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1567.		8:16:04.035	10690	150	-8.7		7345.	RRCSM	UMTS FDD	Downlink	8:16:02.798	BCCH	MASTER INFORMATION BLOCK

- This call failure event occurred on short call at 08:16:02:209 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the failure, UE was latched with PSC 150 and RF condition RSCP -116.1 dBm poor but Ec/No -14 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

Phase-1 Call Attempt Failure Analysis 8 From MS7 CWS MO

0:	Time	System	Serving band		1. best active RSCP	Time	Ch S(1. best active Ec/N0 +		System	Transf. dir.	Time	Subchannel	Message name	
t.	7:48:52.571	GSM	900	Dro 2936.	-99.7	8:38:38.623	10715 13	8	12040.	UMTS FDD	Downlink	8:39:46.189	DCCH	DOWNLINK_DIRECT_TRANSFER	Analysis:
2.	7:49:40.192	GSM	900	Dro 2937.		8:38:38.623	10715 13	8 -7.6	12041.	UMTS FDD	Downlink	8:39:46.189	DCCH	ROUTING_AREA_UPDATE_ACCEPT	This call failure event occurred on short
3,	7:52:43.366	UMTS FDD	2100	Tim 2938.	-93.1	8:38:39.103	10715 13	8	12042.	UMTS FDD	Uplink	8:39:46.190	DCCH	UPLINK_DIRECT_TRANSFER	call at 08:39:48:919 time when LIE was
4,	7:59:55.797	UMTS FDD	2100	Nor 2939.		8:38:39.103	10715 13	8 -4.6	12043.	UMTS FDD	Uplink	8:39:46.190	DCCH	ROUTING_AREA_UPDATE_COMPLETE	latched with 2G notwork
5,	8:01:40.528	GSM	900	Dro 2940.	-103.2	8:38:39.557	10715 13	8	12044.	UMTS FDD	Uplink	8:39:46.193	DCCH	UPLINK_DIRECT_TRANSFER	latened with 50 network.
6.	8:12:53.216	UMTS FDD	2100	Dro 2941.		8:38:39.557	10715 13	8 •7.3	12045.	UMTS FDD	Uplink	8:39:46.193	DCCH	SERVICE_REQUEST	
7.	8:16:02.209	UMTS FDD	2100	Dro 2942.	-105.5	8:38:40.105	10715 13	8	12046.	UMTS FDD	Downlink	8:39:46.309	DCCH	DOWNLINK_DIRECT_TRANSFER	After sending "CM Service Request"
8.	8:39:48.919	UMTS FDD	2100	Tim 2943.		8:38:40.105	10715 13	8 -12.4	12047.	UMTS FDD	Downlink	8:39:46.309	DCCH	SERVICE_ACCEPT	message to core network, then core
9.	8:58:51.607	UMTS FDD	2100	Dro 2944,	-99.2	8:38:40.637	10715 13	8 -	12048.	UMTS FDD	Downlink	8:39:46.439	DCCH	RADIO_BEARER_SETUP	network responds with "Call Proceeding "
10.	9:22:11.431	UMTS FDD	2100	Call 2945.		8:38:40.637	10715 13	8 -7.1	12049.	UMTS FDD	Uplink	8:39:46.718	DCCH	RADIO_BEARER_SETUP_COMPLETE	message. After that call setup has been
11.	9:23:47.832	UMTS FDD	2100	Dro 2946.	-99.2	8:38:40.894	10715 13	8	12050.	UMTS FDD	Downlink	8:39:46.948	DCCH	MEASUREMENT_CONTROL	failed.
12.	10:00:33.409	GSM	900	Tim 2947,		8:38:40.894	10715 13	8 -7.1	12051.	UMTS FDD	Downlink	8:39:46.988	DCCH	MEASUREMENT_CONTROL	
13.	10:11:09.275	UMTS FDD	2100	Dro 2948.	-100.6	8:38:41.185	10715 13	8	12052.	UMTS FDD	Downlink	8:39:47.028	DCCH	MEASUREMENT_CONTROL	• During the failure. UE was latched with
				2949.		8:38:41.185	10715 13	8 -8.6	12053.	UMTS FDD	Downlink	8:39:47.068	DCCH	MEASUREMENT_CONTROL	PSC 148 and RF condition RSCP -109.2
				2950,	-100.6	8:38:41.344	10715 13	8	12054.	UMTS FDD	Downlink	8:39:47.108	DCCH	MEASUREMENT_CONTROL	dBm poor but Ec/No -10.2 dB are very
				2951.	00000	8:38:41.344	10715 13	8 -8.6	12055.	UMTS FDD	Downlink	8:39:47.149	DCCH	MEASUREMENT_CONTROL	good
				2952.	-98.9	8:38:41.873	10715 13	8	12056.	UMTS FDD	Downlink	8:39:47.228	DCCH	DOWNLINK_DIRECT_TRANSFER	good.
				2953,		8:38:41.873	10715 13	8 -7.7	12057.	UMTS FDD	Downlink	8:39:47,228	DCCH	MODIFY_PDP_CONTEXT_REQUEST	
				2954.	-109.2	8:39:44.865	10690 14	8	12058.	UMTS FDD	Uplink	8:39:47.230	DCCH	UPLINK_DIRECT_TRANSFER	Call failed due to poor network coverage
				2955.		8:39:44.865	10690 14	8 -10.2	12059.	UMTS FDD	Uplink	8:39:47.230	DCCH	MODIFY_PDP_CONTEXT_ACCEPT	and quality at the MO site. Low signal
				2956.	-103.1	8:39:45.562	10690 14	8	12060.	UMTS FDD	Uplink	8:39:47.252	DCCH	MEASUREMENT_REPORT	strength and degraded network quality are
				2957.		8:39:45.562	10690 14	8 -8.7	12061.	UMTS FOD	Uplink	8:39:47.327	DCCH	MEASUREMENT_REPORT	contributing to call failures
				2958,	-110.4	8:39:46.111	10690 37	2	12062.	UMTS FDD	Uplink	8:39:47.652	DCCH	MEASUREMENT_REPORT	
				2959.		8:39:46.111	10690 37	2 -14.3	12063.	UMTS FDD	Downlink	8:39:47.748	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
				2960.	-104	8:39:46.751	10690 37	2	12064,	UMTS FDD	Uplink	8:39:48.232	DCCH	MEASUREMENT_REPORT	
				2961.		8:39:46.751	10690 37	2 -8.3	12065.	UMTS FDD	Uplink	8:39:48.516	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE	
				2962.	-96	8:39:47.231	10690 37	2	12066.	UMTS FDD	Downlink	8:39:48.748	DCCH	MEASUREMENT_CONTROL	
				2963.		8:39:47.231	10690 37	2 -6	12067.	UMTS FDD	Downlink	8:39:48.788	DCCH	MEASUREMENT_CONTROL	
				2964.	-97.5	8:39:47.756	10690 37	2	12068.	UMTS FDD	Uplink	8:39:48.950	DCCH	MEASUREMENT_REPORT	
				2965.		8:39:47.756	10690 37	2 -7	12069.	UMTS FDD	Downlink	8:39:49.068	DCCH	RADIO_BEARER_RECONFIGURATION	
				2966.	-101.4	8:39:48.306	10690 37	2	12070.	UMTS FDD	Uplink	8:39:49.140	DCCH	MEASUREMENT_REPORT	
				2967,		8:39:48.306	10690 37	2 -8.3	12071.	UMTS FDD	Downlink	8:39:49.148	DCCH	MEASUREMENT_CONTROL	
				2968.	-94.9	8:39:48.919	10690 37	2	12072.	UMTS FDD	Uplink	8:39:49.672	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
				2969.		8:39:48.919	10690 37	2 -5.5	12073.	UMTS FDD	Uplink	8:39:49.714	DCCH	MEASUREMENT_REPORT	
				2970.	-90.4	8:39:49.492	10690 37	2	12074.	UMTS FDD	Downlink	8:39:49.908	DCCH	MEASUREMENT_CONTROL	
				2971,	-0.000	8:39:49.492	10690 37	2 -3.9	12075.	UMTS FDD	Downlink	8:39:49.909	DCCH	MEASUREMENT CONTROL	

Phase-1 Call Attempt Failure Analysis 9 From MS7 CWS MO

<u>6</u>	Time	System	Serving b	and		1. best active RSCP	Time	Ch	SC	1. best active Ec/N0 🔺		System	Transf. dir.	Time	Subchannel	Message name	
1,	7:48:52.571	GSM	900	Dro	4646,		8:58:42.081	10690	148	-7.8	14882.	UMITS FDD	Downlink	8:58:16.795	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3	Analysis:
2.	7:49:40.192	GSM	900	Dro	4647.	-113.4	8:58:42.492	10690	148		14883.	UMTS FDD	Downlink	8:58:16.795	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5	This call failu
3.	7:52:43.366	UMTS FDD	2100	Tim	4648.		8:58:42.492	10690	148	-14	14884.	UMTS FDD	Downlink	8:58:16.795	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_11	call at 08:58
4.	7:59:55.797	UMTS FDD	2100	Nor	4649.	-101.7	8:58:43.082	10690	148		14885.	UMTS FDD	Downlink	8:58:16.814	BCCH_BCH	SYSTEM_INFORMATION_BCH	latched with
5,	8:01:40.528	GSM	900	Dro	4650.		8:58:43.082	10690	148	-5.6	14886.	UMTS FDD	Downlink	8:58:16.814	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_19	
6.	8:12:53.216	UMTS FDD	2100	Dro	4651.	-103.8	8:58:43.583	10690	148		14887.	UMTS FDD	Downlink	8:58:38.294	BCCH_BCH	SYSTEM_INFORMATION_BCH	A Gran a sudin
7.	8:16:02.209	UMTS FDD	2100	Dro	4652.		8:58:43.583	10690	148	-7.4	14888.	UMTS FDD	Downlink	8:58:38.294	BCCH	MASTER_INFORMATION_BLOCK	After sendin
8.	8:39:48.919	UMTS FDD	2100	Tim	4653.	-104,6	8:58:44.053	10690	148		14889.	UMTS FDD	Downlink	8:58:38.294	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7	message to
9.	8:58:51.607	UMTS FDD	2100	Dro	4654.		8:58:44.053	10690	148	-8.4	14890.	UMTS FDD	Downlink	8:58:38.314	BCCH_BCH	SYSTEM_INFORMATION_BCH	network res
10,	9:22:11.431	UMTS FDD	2100	Cal	4655.	-105	8:58:44.492	10690	148		14891.	UMTS FDD	Downlink	8:58:38.334	BCCH_BCH	SYSTEM_INFORMATION_BCH	message. Af
11,	9:23:47.832	UMTS FDD	2100	Dro	4656,		8:58:44.492	10690	148	-7,8	14892.	UMTS FDD	Uplink	8:58:38.335	CCCH	RRC_CONNECTION_REQUEST	failed.
12,	10:00:33.409	GSM	900	Tim	4657.	-102.4	8:58:45.080	10690	148		14893.	UMTS FDD	Downlink	8:58:38.354	BCCH_BCH	SYSTEM_INFORMATION_BCH	
13,	10:11:09.275	UMTS FDD	2100	Dro	4658.	e contenta	8:58:45.080	10690	148	-7.4	14894.	UMTS FDD	Downlink	8:58:38.374	BCCH_BCH	SYSTEM_INFORMATION_BCH	During the f
					4659.	-109.3	8:58:45.492	10690	148	10	14895.	UMTS FDD	Downlink	8:58:38.374	BCCH	MASTER_INFORMATION_BLOCK	PSC 148 and
					4660.		8:58:45.492	10690	148	-11,1	14896.	UMTS FDD	Downlink	8:58:38.374	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7	dBm noor b
					4661.	-104.5	8:58:46.153	10690	148		14897.	UMTS FDD	Downlink	8:58:38.477	CCCH	RRC_CONNECTION_SETUP	good
					4662.		8:58:46.153	10690	148	-7.3	14898,	UMTS FDD	Uplink	8:58:38.537	DCCH	RRC_CONNECTION_SETUP_COMPLETE	good.
					4663.	-102.5	8:58:46.583	10690	148		14899.	UMTS FDD	Uplink	8:58:38.538	DCCH	INITIAL_DIRECT_TRANSFER	
					4664.	0.52000	8:58:46.583	10690	148	-7.9	14900.	UMTS FDD	Uplink	8:58:38.538	DCCH	CM_SERVICE_REQUEST	Call failed di
					4665.	-106.9	8:58:47.156	10690	148		14901.	UMTS FDD	Downlink	8:58:38.741	DCCH	MEASUREMENT_CONTROL	and quality
					4666,		8:58:47.156	10690	148	-8.8	14902.	UMTS FDD	Downlink	8:58:38.771	DCCH	SECURITY_MODE_COMMAND	strength and
					4667.	-105.6	8:58:47.683	10690	148		14903.	UMTS FDD	Uplink	8:58:38.771	DCCH	SECURITY_MODE_COMPLETE	contributing
					4668.		8:58:47.683	10690	148	-7.5	14904.	UMTS FDD	Uplink	8:58:38.861	DCCH	UPLINK_DIRECT_TRANSFER	
					4669.	-102.7	8:58:48.153	10690	148		14905.	UMTS FDD	Uplink	8:58:38.861	DCCH	SETUP	
					4670.		8:58:48.153	10690	148	-6.6	14906.	UMTS FDD	Downlink	8:58:38.871	DCCH	DOWNLINK_DIRECT_TRANSFER	
					4671.	-101	8:58:48.647	10690	148		14907.	UMTS FDD	Downlink	8:58:38.871	DCCH	TMSI_REALLOCATION_COMMAND	
					4672.		8:58:48.647	10690	148	-6.8	14908.	UMTS FDD	Uplink	8:58:38.872	DCCH	UPLINK_DIRECT_TRANSFER	
					4673.	-96.1	8:58:49.156	10690	148		14909.	UMTS FDD	Uplink	8:58:38.872	DCCH	TMSI_REALLOCATION_COMPLETE	
					4674.		8:58:49.156	10690	148	-5	14910.	UMTS FDD	Downlink	8:58:38.981	DCCH	DOWNLINK_DIRECT_TRANSFER	
					4675.	-108.9	8:58:49.703	10690	148		14911.	UMTS FDD	Downlink	8:58:38.981	DCCH	CALL_PROCEEDING	
					4676.		8:58:49.703	10690	148	-10	14912.	UMTS FDD	Downlink	8:58:50.531	DCCH	RADIO_BEARER_SETUP	
					4677.	-99.7	8:58:50.493	10690	148		14913.	UMTS FDD	Uplink	8:58:50.864	DCCH	RADIO_BEARER_SETUP_COMPLETE	
					4678.	action.	8:58:50,493	10690	148	-6	14914.	UMTS FDD	Downlink	8:58:51.111	DCCH	MEASUREMENT_CONTROL	
					4679.	-98.8	8:58:50.863	10690	148		14915.	UMTS FDD	Downlink	8:58:51.151	DCCH	MEASUREMENT_CONTROL	
					4680.		8:58:50.863	10690	148	-4.9	14916.	UMTS FDD	Downlink	8:58:51.191	DCCH	MEASUREMENT_CONTROL	
					4681.	-96.6	8:58:51.361	10690	148	1000	14917.	UMTS FDD	Downlink	8:58:51.231	DCCH	MEASUREMENT CONTROL	

- This call failure event occurred on short call at 08:58:51:607 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the failure, UE was latched with PSC 148 and RF condition RSCP -104.6 dBm poor but Ec/No -7.4 dB are very good.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

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Phase-1 Call Attempt Failure Analysis 10 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best active Ec/NO	•		System	Transf. dir.	Time	Subchannel	Message name	
4.1	7:48:52.571	GSM	900	Dro	6383.	-125.6	9:22:07.850	10715	147			19864.	UMTS FDD	Uplink	9:22:11.136	CCCH	RRC_CONNECTION_REQUEST	Analysi
2,	7:49:40.192	GSM	900	Dro	6384.		9:22:07.850	10690	147	-21.1		19865.	UMTS FDD	Downlink	9:22:11.165	BCCH_BCH	SYSTEM_INFORMATION_BCH	• This
3.	7:52:43.366	UMTS FDD	2100	Tim	6385,	-120,4	9:22:08.290	10690	147			19866.	UMTS FDD	Downlink	9:22:11.204	BCCH_BCH	SYSTEM_INFORMATION_BCH	call a
4,	7:59:55.797	UMTS FDD	2100	Nor	6386.		9:22:08.290	10690	147	-15.7		19867.	UMTS FDD	Downlink	9:22:11.204	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2	latch
5.	8:01:40.528	GSM	900	Dro	6387.	-123.8	9:22:08.910	10690	147			19868.	UMTS FDD	Downlink	9:22:11.204	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3	laten
б,	8:12:53.216	UMTS FDD	2100	Dro	6388.		9:22:08.910	10690	147	-18.2		19869.	UMTS FDD	Downlink	9:22:11.224	BCCH_BCH	SYSTEM_INFORMATION_BCH	• Duri
7.	8:16:02.209	UMTS FDD	2100	Dro	6389.	-121.1	9:22:09.291	10690	147			19870.	UMTS FDD	Downlink	9:22:11.244	BCCH_BCH	SYSTEM_INFORMATION_BCH	
8,	8:39:48.919	UMTS FDD	2100	Tim	6390.		9:22:09.291	10690	147	-17.3		19871,	UMTS FDD	Downlink	9:22:11.264	BCCH_BCH	SYSTEM_INFORMATION_BCH	
9.	8:58:51.607	UMTS FDD	2100	Dro	6391.	-121	9:22:10.050	10715	147			19872.	UMTS FDD	Downlink	9:22:11.264	BCCH	MASTER_INFORMATION_BLOCK	setu
10.	9:22:11.431	UMTS FDD	2100	Call	6392.		9:22:10.050	10690	147	-16.8		19873.	UMTS FDD	Downlink	9:22:11.264	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7	• Duri
11.	9:23:47.832	UMTS FDD	2100	Dro	6393,	-124,1	9:22:10.576	10715	147			19874.	UMTS FDD	Downlink	9:22:11.284	BCCH_BCH	SYSTEM_INFORMATION_BCH	• Duri
12.	10:00:33.409	GSM	900	Tim	6394.		9:22:10.576	10690	147	-20.9		19875,	UMTS FDD	Downlink	9:22:11.284	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_5	PSC .
13.	10:11:09.275	UMTS FDD	2100	Dro	6395.	-125.7	9:22:10.852	10715	147			19876.	UMTS FDD	Downlink	9:22:11.288	СССН	RRC_CONNECTION_SETUP	asm
					6396.		9:22:10.852	10715	147	-20.1		19877.	UMTS FDD	Uplink	9:22:11.431	DCCH	RRC_CONNECTION_SETUP_COMPLETE	poor
					6397.	-122.1	9:22:11.431	10715	147	6		19878.	UMTS FDD	Uplink	9:22:11.431	DCCH	INITIAL_DIRECT_TRANSFER	
					6398.		9:22:11.431	10715	147	-22.2		19879.	UMTS FDD	Uplink	9:22:11.431	DCCH	SERVICE_REQUEST	Call t
					6399.	-119.8	9:22:11.843	10715	147			19880.	UMTS FDD	Downlink	9:22:11.601	DCCH	MEASUREMENT_CONTROL	and
					6400.		9:22:11.843	10715	147	-16.9	_	19881.	UMTS FDD	Downlink	9:22:11.611	DCCH	MEASUREMENT_CONTROL	stren
					6401.	-116.8	9:22:12.433	10690	147			19882.	UMTS FDD	Downlink	9:22:11.621	DCCH	SECURITY_MODE_COMMAND	cont
					6402.		9:22:12.433	10690	147	-13		19883.	UMTS FDD	Uplink	9:22:11.622	DCCH	SECURITY_MODE_COMPLETE	
					6403.	-122.2	9:22:13.073	10690	147			19884.	UMTS FDD	Downlink	9:22:11.911	DCCH	RADIO_BEARER_SETUP	
					6404.		9:22:13.073	10690	147	-18.4		19885.	UMTS FDD	Uplink	9:22:11.952	DCCH	MEASUREMENT_REPORT	
					6405,	-121.6	9:22:13.573	10715	147			19886.	UMTS FDD	Uplink	9:22:12.188	DCCH	RADIO_BEARER_SETUP_COMPLETE	
					6406.		9:22:13.573	10690	147	-19.8		19887.	UMTS FDD	Uplink	9:22:12.452	DCCH	MEASUREMENT_REPORT	
					6407.	-117.6	9:22:14.122	10715	147			19888.	UMTS FDD	Downlink	9:22:12.611	DCCH	MEASUREMENT_CONTROL	
					6408.		9:22:14.122	10715	147	-17.3		19889.	UMTS FDD	Downlink	9:22:12.651	DCCH	MEASUREMENT_CONTROL	
					6409.	-122	9:22:14.454	10690	147			19890.	UMTS FDD	Downlink	9:22:12.691	DCCH	MEASUREMENT_CONTROL	
					6410.		9:22:14.454	10690	147	-17.4		19891.	UMTS FDD	Downlink	9:22:12.731	DCCH	MEASUREMENT_CONTROL	
					6411.	-119.7	9:22:15.133	10715	147			19892.	UMTS FDD	Downlink	9:22:12.771	DCCH	MEASUREMENT_CONTROL	
					6412.		9:22:15.133	10690	147	-17.4		19893.	UMTS FDD	Downlink	9:22:12.811	DCCH	MEASUREMENT_CONTROL	
					6413.	-115.3	9:22:15.423	10715	147			19894,	UMTS FDD	Uplink	9:22:12.976	DCCH	MEASUREMENT_REPORT	
					6414.		9:22:15.423	10715	147	-15.5		19895.	UMTS FDD	Uplink	9:22:13.033	DCCH	MEASUREMENT_REPORT	
					6415.	-113.9	9:22:16.164	10715	147			19896.	UMTS FDD	Downlink	9:22:13.411	DCCH	RADIO_BEARER_RECONFIGURATION	
				1	6416.		9:22:16.164	10715	147	-14.6		19897.	UMTS FDD	Uplink	9:22:13.452	DCCH	MEASUREMENT_REPORT	

- call failure event occurred on short at 09:22:11:431 time when UE was ed with 3G network.
- ng the session before the call failure. end "Service Request". Then call p has been failed.
- ng the failure, UE was latched with 147 and RF condition RSCP -122.1 poor but Ec/No -22.2 dB are very
- failed due to poor network coverage quality at the MO site. Low signal ngth and degraded network quality are ributing to call failures

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Phase-1 Call Attempt Failure Analysis 11 From MS7 CWS MO

	Time	System	Serving band	0		1. best active RSCP	Time	Ch	SC	1. best active Ec/N0 +		System	Transf. dir.	Time	Subchannel	Message name	
1.	7:48:52.571	GSM	900	Dro	6472.		9:23:41.475	10715	147	-17.1	20451.	UMTS FDD	Uplink	9:23:38.211	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE	Analysis:
2.	7:49:40.192	GSM	900	Dro	6473.	-121.8	9:23:42.353	10715	147		20452.	UMTS FDD	Downlink	9:23:38.483	DCCH	SECURITY_MODE_COMMAND	• This ca
3.	7:52:43.366	UMTS FDD	2100	Tim	6474.		9:23:42.353	10715	147	-21.4	20453.	UMTS FDD	Uplink	9:23:38.483	DCCH	SECURITY_MODE_COMPLETE	call at
4.	7:59:55.797	UMTS FDD	2100	Nor	6475.	-118.5	9:23:42.535	10715	147		20454.	UMTS FDD	Downlink	9:23:38.923	DCCH	DOWNLINK_DIRECT_TRANSFER	latche
5,	8:01:40.528	GSM	900	Dro	6476.	call to the true	9:23:42.535	10715	147	-18.6	20455.	UMTS FDD	Downlink	9:23:38.923	DCCH	ROUTING_AREA_UPDATE_ACCEPT	laterie
б,	8:12:53.216	UMTS FDD	2100	Dro	6477.	-119.2	9:23:43.303	10715	147		20456,	UMTS FDD	Uplink	9:23:38.924	DCCH	UPLINK_DIRECT_TRANSFER	During
7.	8:16:02.209	UMTS FDD	2100	Dro	6478.		9:23:43.303	10715	147	-19.3	20457.	UMTS FDD	Uplink	9:23:38.924	DCCH	ROUTING_AREA_UPDATE_COMPLETE	
8,	8:39:48.919	UMTS FDD	2100	Tim	6479.	-122.5	9:23:43.613	10715	147		20458.	UMTS FDD	Uplink	9:23:38.927	DCCH	UPLINK_DIRECT_TRANSFER	UE SEI
9,	8:58:51.607	UMTS FDD	2100	Dro	6480.		9:23:43.613	10690	147	-23.1	20459.	UMTS FDD	Uplink	9:23:38.927	DCCH	SERVICE_REQUEST	setup
10,	9:22:11.431	UMTS FDD	2100	Call	6481.	-121.4	9:23:44.213	10715	147		20460.	UMTS FDD	Downlink	9:23:39.032	DCCH	DOWNLINK_DIRECT_TRANSFER	
11,	9:23:47.832	UMTS FDD	2100	Dro	6482.	Contraction of the second s	9:23:44.213	10715	147	-17.6	20461.	UMTS FDD	Downlink	9:23:39.032	DCCH	SERVICE_ACCEPT	 During
12.	10:00:33.409	GSM	900	Tim	6483.	-119.1	9:23:44.540	10715	147		20462.	UMTS FDD	Downlink	9:23:39.203	DCCH	RADIO_BEARER_SETUP	PSC 14
13.	10:11:09.275	UMTS FDD	2100	Dro	6484.		9:23:44.540	10715	147	-18.3	20463.	UMTS FDD	Uplink	9:23:39.508	DCCH	RADIO_BEARER_SETUP_COMPLETE	dBm p
					6485.	-119.1	9:23:45.163	10715	147		20464.	UMTS FDD	Downlink	9:23:39.722	DCCH	MEASUREMENT_CONTROL	poor.
					6486.	251-046777	9:23:45.163	10715	147	-18.3	20465.	UMTS FDD	Downlink	9:23:39.762	DCCH	MEASUREMENT_CONTROL	
					6487.	-120.7	9:23:45.303	10715	147		20466.	UMTS FDD	Downlink	9:23:39.802	DCCH	MEASUREMENT_CONTROL	Call fa
					6488.		9:23:45.303	10715	147	-21.3	20467.	UMTS FDD	Downlink	9:23:39.842	DCCH	MEASUREMENT_CONTROL	and gu
					6489.	-120.7	9:23:45.613	10715	147		20468.	UMTS FDD	Downlink	9:23:39.882	DCCH	MEASUREMENT_CONTROL	streng
					6490.		9:23:45.613	10715	147	-21.3	20469.	UMTS FDD	Downlink	9:23:39.922	DCCH	MEASUREMENT_CONTROL	contril
					6491.	-114.4	9:23:45.875	10715	147		20470.	UMTS FDD	Downlink	9:23:40.002	DCCH	DOWNLINK_DIRECT_TRANSFER	
					6492.	TRACIACIO	9:23:45.875	10715	147	-16.3	20471.	UMTS FDD	Downlink	9:23:40.002	DCCH	MODIFY_PDP_CONTEXT_REQUEST	
					6493.	-114.4	9:23:46.163	10715	147		20472.	UMTS FDD	Uplink	9:23:40.004	DCCH	UPLINK_DIRECT_TRANSFER	
					6494.		9:23:46.163	10715	147	-16.3	20473.	UMTS FDD	Uplink	9:23:40.004	DCCH	MODIFY_PDP_CONTEXT_ACCEPT	
					6495.	-116.1	9:23:46.165	10715	147		20474.	UMTS FDD	Uplink	9:23:40.045	DCCH	MEASUREMENT_REPORT	
					6496.		9:23:46.165	10715	147	-14	20475,	UMTS FDD	Uplink	9:23:40.085	DCCH	MEASUREMENT_REPORT	
					6497.	-116.1	9:23:46.175	10715	147		20476.	UMTS FDD	Downlink	9:23:40.522	DCCH	RADIO_BEARER_RECONFIGURATION	
					6498.	Post of the	9:23:46.175	10715	147	-14	20477.	UMTS FDD	Uplink	9:23:40.564	DCCH	MEASUREMENT_REPORT	
					6499.	-118.5	9:23:46.803	10715	147		20478.	UMTS FDD	Uplink	9:23:41.256	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
					6500,		9:23:46.603	10715	147	-18.7	20479.	UMTS FDD	Downlink	9:23:41.482	DCCH	MEASUREMENT_CONTROL	
					6501.	-118.5	9:23:47.179	10715	147		20480.	UMTS FDD	Downlink	9:23:41.522	DCCH	MEASUREMENT_CONTROL	
					6502.	-114.7	9:23:47.179	10715	147		20481.	UMTS FDD	Downlink	9:23:41.562	DCCH	MEASUREMENT_CONTROL	
					6503.		9:23:47.179	10715	147	-18.7	20482.	UMTS FDD	Downlink	9:23:41.602	DCCH	MEASUREMENT_CONTROL	
					6504.		9:23:47.179	10715	147	-15,3	20483.	UMTS FDD	Downlink	9:23:41.682	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
					6505.	-114.7	9:23:47.614	10715	147		20484.	UMTS FDD	Uplink	9:23:41.724	DCCH	MEASUREMENT_REPORT	
					6506,		9:23:47.614	10715	147	-15.3	20485,	UMTS FDD	Uplink	9:23:41.814	DCCH	MEASUREMENT_REPORT	

- all failure event occurred on short 09:23:47:832 time when UE was d with 3G network.
- g the session before the call failure nd "Service Request". Then call has been failed.
- g the failure, UE was latched with 47 and RF condition RSCP -114.4 boor but Ec/No -16.3 dB are very
- iled due to poor network coverage uality at the MO site. Low signal th and degraded network quality are buting to call failures

Phase-1 Call Attempt Failure Analysis 5 From MS7 CWS M0

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub	•		System	Transf. dir.	Time	Subchannel	Message name
1.	7:48:52.571	GSM	900	Dro	2989.	10:00:16.811	-101	21	25	1	0			21984.	GSM	Uplink	10:00:23.91	IE SACCH	MEASUREMENT_REPORT
2.	7:49:40,192	GSM	900	Dro	2990.	10:00:17.274	-101	21	25	1	0			21985.	GSM	Uplink	10:00:24.38	SACCH	MEASUREMENT_REPORT
3,	7:52:43.366	UMTS FDD	2100	Tim	2991.	10:00:17.781	-101	21	25	1	0			21986.	GSM	Uplink	10:00:24.85	SACCH	MEASUREMENT_REPORT
4,	7:59:55.797	UMTS FDD	2100	Nor	2992.	10:00:18.265						0		21987,	GSM	Uplink	10:00:25.32	SACCH	MEASUREMENT_REPORT
5,	8:01:40,528	GSM	900	Dro	2993.	10:00:18,400	-94	21	25	1	0			21988.	GSM	Downlink	10:00:25.78	BE DCCH	IDENTITY_REQUEST
6,	8:12:53.216	UMTS FDD	2100	Dro	2994.	10:00:18.737						7		21989.	GSM	Uplink	10:00:25.78	B: DCCH	IDENTITY_RESPONSE
7,	8:16:02.209	UMTS FDD	2100	Dro	2995.	10:00:18.871	-100	21	25	1	0			21990.	GSM	Uplink	10:00:25.79	Y: SACCH	MEASUREMENT_REPORT
8.	8:39:48.919	UMTS FDD	2100	Tim	2996.	10:00:19.208						3		21991.	GSM	Uplink	10:00:26.27	N SACCH	MEASUREMENT_REPORT
9.	8:58:51.607	UMTS FDD	2100	Dro	2997.	10:00:19.437	-97	21	25	1	0			21992.	GSM	Uplink	10:00:26.74	K SACCH	MEASUREMENT_REPORT
10,	9:22:11.431	UMTS FDD	2100	Call	2998.	10:00:19.679						1		21993.	GSM	Uplink	10:00:27.21	1' SACCH	MEASUREMENT_REPORT
11.	9:23:47.832	UMTS FDD	2100	Dro	2999.	10:00:19,900	-94	21	25	1	0			21994.	GSM	Uplink	10:00:27.68	SACCH	MEASUREMENT_REPORT
12.	10:00:33.409	GSM	900	Tim	3000.	10:00:20.150						7		21995.	GSM	Downlink	10:00:28.13	S DCCH	CIPHERING_MODE_COMMAND
13.	10:11:09.275	UMTS FDD	2100	Dro	3001.	10:00:20.371	-96	21	25	1	0			21996.	GSM	Uplink	10:00:28.14	E DCCH	CIPHERING_MODE_COMPLETE
					3002.	10:00:20.620						4		21997.	GSM	Uplink,	10:00:28.15	SACCH	MEASUREMENT_REPORT
					3003.	10:00:20.754	-97	21	25	1	0			21998.	GSM	Uplink	10:00:28.62	SACCH	MEASUREMENT_REPORT
					3004.	10:00:21.091						7		21999.	GSM	Uplink	10:00:29.09	M SACCH	MEASUREMENT_REPORT
					3005.	10:00:21.562	-97	21	25	1	0			22000,	GSM	Uplink	10:00:29.56	SE SACCH	MEASUREMENT_REPORT
					3006.	10:00:21.562						5		22001.	GSM	Uplink	10:00:30.03	W SACCH	MEASUREMENT_REPORT
					3007.	10:00:22.033						3		22002.	GSM	Uplink	10:00:30.50	N SACCH	MEASUREMENT_REPORT
					3008.	10:00:22.504						6		22003.	GSM	Downlink	10:00:30.72	A DCCH	LOCATION_UPDATING_ACCEPT
				1	3009.	10:00:22.637	-97	21	25	1	0			22004.	GSM	Uplink	10:00:30.72	M DCCH	TMSI_REALLOCATION_COMPLETE
				1	3010.	10:00:23.445						7		22005.	GSM	Uplink	10:00:30.72	S DCCH	CM_SERVICE_REQUEST
					3011.	10:00:23,579	-98	21	25	1	0			22006.	GSM	Uplink	10:00:30.97	T SACCH	MEASUREMENT_REPORT
				1	3012.	10:00:24.137	-97	21	25	1	0			22007.	GSM	Uplink	10:00:31.44	IS SACCH	MEASUREMENT_REPORT
					3013.	10:00:24.608	-98	21	25	1	ð			22008.	GSM	Uplink	10:00:31.91	SACCH	MEASUREMENT_REPORT
					3014.	10:00:24.857						6		22009,	GSM	Downlink	10:00:36.57	M BCCH	SYSTEM_INFORMATION_TYPE_3
					3015.	10:00:25,244	-98	21	25	1	0			22010.	GSM	Downlink	10:00:37.52	BCCH	SYSTEM_INFORMATION_TYPE_3
					3016.	10:00:25.328	-98	21	25	1	0	-	-	22011.	GSM	Downlink	10:00:55.08	ST BCCH	SYSTEM_INFORMATION_TYPE_3
					3017,	10:00:25.328						7		22012.	GSM	Downlink	10:00:55.71	IS BCCH	SYSTEM_INFORMATION_TYPE_3
					3018.	10:00:25.799						7		22013.	GSM	Uplink	10:01:03.84	T DCCH	CM_SERVICE_REQUEST
					3019.	10:00:26.245	-97	21	25	1	0			22014.	GSM	Downlink	10:01:05.89	M BCCH	SYSTEM_INFORMATION_TYPE_4
					3020.	10:00:26.270						7		22015.	GSM	Downlink	10:01:06.13	BCCH	SYSTEM_INFORMATION_TYPE_13
					3021.	10:00:26.726	-98	21	25	1	0			22016.	GSM	Downlink	10:01:06.36	SE BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
					3022,	10:00:27.375	-96	21	25	1	0			22017.	GSM	Downlink	10:01:06.60)! BCCH	SYSTEM_INFORMATION_TYPE_3
					3023.	10:00:27.682	-97	21	25	1	0			22018.	GSM	Downlink	10:01:06.84	I) BCCH	SYSTEM_INFORMATION_TYPE_4
					3024.	10:00:28.152						7		22019.	GSM	Downlink	10:01:06.90	CCCH	PAGING_REQUEST_TYPE_1
					3025.	10:00:28.246	-97	21	25	1	0		-	22020,	GSM	Downlink	10:01:07.07	BCCH	SYSTEM_INFORMATION_TYPE_1
		1		NE		1						NE.							

- This call failure event occurred on short call at 10:00:33:409 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the session UE was latched with ARFCN 21 and RF condition Rx lev -98 dBm is good and Rx qual 6 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-1 Call Attempt Failure Analysis 13 From MS7 CWS MO

4	Time	System	Serving band		1. best active RSCP	Time	Ch	SC 1. best active Ec/N0 🔺		System	Transf. dir.	Time Subchannel	Message name	
1.	7:48:52.571	GSM	900	Dro 7245.	-120.3	10:10:59.869	10690	147	24122.	UMTS FDD	Uplink	10:10:53.90! DCCH	CM_SERVICE_REQUEST	Analysis:
2.	7:49:40.192	GSM	900	Dro 7246.	i.	10:10:59.869	10690	147 -17.5	24123.	UMTS FDD	Downlink	10:10:54.718 DCCH	MEASUREMENT_CONTROL	This call failure event occurred on short
3.	7:52:43.366	UMTS FDD	2100	Tim 7247.	-127.6	10:11:00.411	10690	147	24124.	UMTS FDD	Downlink	10:10:54.757 DCCH	SECURITY_MODE_COMMAND	call at 10:11:00:275 time when LIE was
4.	7:59:55.797	UMTS FDD	2100	No: 7248.	1	10:11:00.411	10690	147 -22.9	24125.	UMTS FDD	Uplink	10:10:54.758 DCCH	SECURITY_MODE_COMPLETE	latched with 2C network
5,	8:01:40.528	GSM	900	Dro 7249.	-125.9	10:11:01.250	10690	146	24126.	UMTS FDD	Uplink	10:10:54.95{ DCCH	UPLINK_DIRECT_TRANSFER	latened with 56 network.
б.	8:12:53.216	UMTS FDD	2100	Dro 7250.		10:11:01.250	10690	146 -23	24127.	UMTS FDD	Uplink	10:10:54.958 DCCH	SETUP	
7.	8:16:02.209	UMTS FDD	2100	Dro 7251.	-126	10:11:01.369	10690	146	24128.	UMTS FDD	Uplink	10:10:55.032 DCCH	MEASUREMENT_REPORT	After sending "CM Service Request"
8,	8:39:48.919	UMTS FDD	2100	Tim 7252.		10:11:01.369	10690	146 -22.2	24129.	UMTS FDD	Downlink	10:10:55.078 DCCH	DOWNLINK_DIRECT_TRANSFER	message to core network, then core
9.	8:58:51.607	UMTS FDD	2100	Dro 7253.	-130.7	10:11:02.191	10690	126	24130.	UMTS FDD	Downlink	10:10:55.078 DCCH	TMSI_REALLOCATION_COMMAND	network responds with "Call Proceeding "
10,	9:22:11.431	UMTS FDD	2100	Call 7254,	-126,4	10:11:02.451	10690	147	24131.	UMTS FDD	Uplink	10:10:55.078 DCCH	UPLINK_DIRECT_TRANSFER	message. After that call setup has been
11,	9:23:47.832	UMTS FDD	2100	Dro 7255.		10:11:02.451	10690	147 -22.6	24132.	UMTS FDD	Uplink	10:10:55.07(DCCH	TMSI_REALLOCATION_COMPLETE	failed.
12,	10:00:33.409	GSM	900	Tim 7256.	-127.9	10:11:03.191	10690	126	24133,	UMTS FDD	Uplink	10:10:55,532 DCCH	MEASUREMENT_REPORT	
13,	10:11:09.275	UMTS FDD	2100	Drc 7257.	and she	10:11:03.191	10690	126 -24.1	24134.	UMTS FDD	Uplink	10:10:55.672 DCCH	MEASUREMENT_REPORT	During the failure. UF was latched with
	11			7258.	-124.3	10:11:03.431	10690	147	24135.	UMTS FDD	Downlink	10:10:55.67(DCCH	ACTIVE_SET_UPDATE	PSC 147 and RE condition RSCP -123.8
				7259.		10:11:03.431	10690	147 -21.4	24136.	UMTS FDD	Uplink	10:10:55.69(DCCH	ACTIVE_SET_UPDATE_COMPLETE	dPm near but Ec/No. 18.2 dP are year
				7260,	-127.2	10:11:04.251	10690	126	24137.	UMTS FDD	Downlink	10:10:56.19(DCCH	MEASUREMENT_CONTROL	
				7261.		10:11:04.251	10690	126 -24.3	24138.	UMTS FDD	Downlink	10:10:56.278 DCCH	ACTIVE_SET_UPDATE	poor.
				7262.	-130.4	10:11:04.862	10690	146	24139.	UMTS FDD	Uplink	10:10:56.289 DCCH	ACTIVE_SET_UPDATE_COMPLETE	
				7263.		10:11:04.862	10690	146 -24.8	24140,	UMTS FDD	Downlink	10:10:56.358 DCCH	DOWNLINK_DIRECT_TRANSFER	Call failed due to poor network coverage
				7264.	-122.1	10:11:06.862	10690	147	24141.	UMTS FDD	Downlink	10:10:56.35 DCCH	CALL_PROCEEDING	and quality at the MO site. Low signal
				7265.	- MARK	10:11:06.862	10690	147 -16.5	24142.	UMTS FDD	Downlink	10:10:59.19(DCCH	MEASUREMENT_CONTROL	strength and degraded network quality are
				7266.	-122.1	10:11:08.261	10690	147	24143.	UMTS FDD	Downlink	10:11:08.19(DCCH	RADIO_BEARER_SETUP	contributing to call failures
				7267,		10:11:08.261	10690	147 -16.5	24144.	UMTS FDD	Uplink	10:11:08.71" DCCH	RADIO_BEARER_SETUP_COMPLETE	
				7268.	-123.8	10:11:08.710	10690	147	24145.	UMTS FDD	Downlink	10:11:08.958 DCCH	MEASUREMENT_CONTROL	
				7269.		10:11:08.710	10690	147 -18.2	24146.	UMTS FDD	Downlink	10:11:08.998 DCCH	MEASUREMENT_CONTROL	
				7270.	-120	10:11:09.400	10690	126	24147,	UMTS FDD	Downlink	10:11:09.03(DCCH	MEASUREMENT_CONTROL	
				7271.	S. 655	10:11:09.400	10690	126 -17.8	24148.	UMTS FDD	Downlink	10:11:09.077 DCCH	MEASUREMENT_CONTROL	
				7272.	-128.5	10:11:09.803	10690	147	24149.	UMTS FDD	Downlink	10:11:09.157 DCCH	DOWNLINK_DIRECT_TRANSFER	
				7273.		10:11:09.803	10690	147 -25.6	24150.	UMTS FDD	Downlink	10:11:09.157 DCCH	DISCONNECT	
				7274.	-128.5	10:11:10.452	10690	147	24151.	UMTS FDD	Uplink	10:11:09.205 DCCH	UPLINK_DIRECT_TRANSFER	
				7275.		10:11:10.452	10690	147 -25.6	24152.	UMTS FDD	Uplink	10:11:09.205 DCCH	RELEASE	
				7276.	-128.5	10:11:11.219	10690	147	24153.	UMTS FDD	Uplink	10:11:09.294 DCCH	MEASUREMENT_REPORT	
				7277,		10:11:11.219	10690	147 -25.6	24154.	UMTS FDD	Uplink	10:11:09.33; DCCH	MEASUREMENT_REPORT	
				7278.	-128.5	10:11:12.826	10690	147	24155.	UMTS FDD	Downlink	10:11:09.397 DCCH	DOWNLINK_DIRECT_TRANSFER	
				7279.		10:11:12.826	10690	147 -25.6	24156.	UMTS FDD	Downlink	10:11:09.397 DCCH	RELEASE_COMPLETE	
				7280.	-114.5	10:11:14.661	10690	147	24157.	UMTS FDD	Uplink	10:11:09.411 DCCH	MEASUREMENT_REPORT	

Phase-1 Call Drop Analysis 1 From MS9 Airtel MO

	Time	System Serving ban	d Call type Cal		Time	RxLev sub	ARFCN	BSIC	LAC	RACR	XQ sub			System	Transf. dir.	Time	Subchannel	Message name	
t.	10:15:31:425	GSM 900	Voice call Orig	3782.	10:15:09.856					7			18179.	GSM	Uplink	10:15:15.13	E SACCH	MEASUREMENT_REPORT	Analysis:
				3783.	10:15:09.876	-94	119	35	50000			4	18180.	GSM	Downlink	10:15:15.57((SACCH	SYSTEM_INFORMATION_TYPE_6	This call drop event occurred on long call
				3784.	10:15:10.816	-91	119	35	50000				18181.	GSM	Uplink	10:15:15.616	E SACCH	MEASUREMENT_REPORT	at 10:15:31:425 time when LIE was
				3785.	10:15:10.816					6			18182.	GSM	Uplink	10:15:16.09	E SACCH	MEASUREMENT_REPORT	latebad with 2C natwork
				3786.	10:15:11.296	-91	119	35	50000				18183.	GSM	Downlink	10:15:16.530	(SACCH	MEASUREMENT_INFORMATION	latined with 2G network.
				3787,	10:15:11.296					5			18184.	GSM	Uplink	10:15:16.57	(SACCH	MEASUREMENT_REPORT	
				3788.	10:15:11.776					6			18185.	GSM	Downlink	10:15:17.010	(SACCH	SYSTEM_INFORMATION_TYPE_6	After getting Alerting message at
				3789.	10:15:11.882	-92	119	35	50000				18186.	GSM	Uplink	10:15:17.05	E SACCH	MEASUREMENT_REPORT	10:14:05:535 time than Call drop
				3790.	10:15:12.256	-92	119	35	50000				18187.	GSM	Downlink	10:15:17.490	SACCH	SYSTEM_INFORMATION_TYPE_5	happened.
				3791.	10:15:12.256					5			18188.	GSM	Uplink	10:15:17.536	(SACCH	MEASUREMENT_REPORT	
				3792,	10:15:12.736					2			18189.	GSM	Downlink	10:15:17.969	SACCH	MEASUREMENT_INFORMATION	• During the session UE was latched with
				3793,	10:15:12.819	-89	119	35	50000				18190	GSM	Uplink	10:15:18.010	(SACCH	MEASUREMENT_REPORT	ARFCN 119 and RF condition Rx lev -90
				3794.	10:15:13.216					5			18191.	GSM	Downlink	10:15:18.45	SACCH	SYSTEM_INFORMATION_TYPE_6	dBm is good and Rx gual 4 dB was very
				3795.	10:15:13.276	-91	119	35	50000				18192.	GSM	Uplink	10:15:18.49	E SACCH	MEASUREMENT_REPORT	noor
				3796.	10:15:13.719	-92	119	35	50000				18193.	GSM	Downlink	10:15:18.930	SACCH	SYSTEM_INFORMATION_TYPE_5	pool.
				3797,	10:15:14.176					6			18194.	GSM	Uplink	10:15:18.976	(SACCH	MEASUREMENT_REPORT	A consthe Anglusia the cell action drag
				3798.	10:15:14.323	-91	119	35	50000				18195.	GSM	Downlink	10:15:19.410	SACCH	MEASUREMENT_INFORMATION	• As per the Analysis the call setup drop
				3799.	10:15:14.822	-92	119	35	50000				18196.	GSM	Uplink	10:15:19.45	(SACCH	MEASUREMENT_REPORT	event occurred due to poor quality in the
				3800.	10:15:15.276	-92	119	35	50000				18197.	GSM	Downlink	10:15:19.890	(SACCH	SYSTEM_INFORMATION_TYPE_6	network.
				3801.	10:15:16.123	-92	119	35	50000			-	18198.	GSM	Uplink	10:15:19.936	E SACCH	MEASUREMENT_REPORT	
				3802.	10:15:17.056	-91	119	35	50000			_ ÷	18199.	GSM	Downlink	10:15:20.370	(SACCH	SYSTEM_INFORMATION_TYPE_5	
				3803,	10:15:17.536	-92	119	35	50000			-	18200.	GSM	Uplink	10:15:20.416	(SACCH	MEASUREMENT_REPORT	
				3804,	10:15:17.536					5			18201,	GSM	Uplink	10:15:20.89	(SACCH	MEASUREMENT_REPORT	
				3805.	10:15:18.016	-90	119	35	50000				18202.	GSM	Downlink	10:15:21.329	SACCH	SYSTEM_INFORMATION_TYPE_6	
				3806.	10:15:18.016			0	h h	- 4			18203.	GSM	Uplink	10:15:21.376	E SACCH	MEASUREMENT_REPORT	
				3807.	10:15:18.496	-91	119	35	50000				18204.	GSM	Downlink	10:15:21.810	(SACCH	SYSTEM_INFORMATION_TYPE_5	
				3808,	10:15:18.496					5			18205.	GSM	Uplink	10:15:21.856	SACCH	MEASUREMENT_REPORT	
				3809,	10:15:18.976	-92	119	35	50000				18206.	GSM	Downlink	10:15:22.28	SACCH	MEASUREMENT_INFORMATION	
				3810,	10:15:19.520	-89	119	35	50000				18207.	GSM	Uplink	10:15:22.330	(SACCH	MEASUREMENT_REPORT	
				3811,	10:15:19.936					4			18208.	GSM	Downlink	10:15:22.769	SACCH	SYSTEM_INFORMATION_TYPE_6	
				3812,	10:15:20.273	-90	119	35	50000				18209,	GSM	Uplink	10:15:22.816	E SACCH	MEASUREMENT_REPORT	
				3813.	10:15:20.416					5			18210.	GSM	Uplink	10:15:23.29	E SACCH	MEASUREMENT_REPORT	
				3814.	10:15:20.896	-92	119	35	50000				18211.	GSM	Uplink	10:15:23.776	(SACCH	MEASUREMENT_REPORT	
				3815.	10:15:20.896					6			18212.	GSM	Downlink	10:15:23.82	DCCH	HANDOVER_COMMAND	
				3816.	10:15:21.260	-93	119	35	50000				18213.	GSM	Downlink	10:15:23.96	DCCH	PHYSICAL_INFORMATION	
				3817.	10:15:21.943	-93	119	35	50000				18214.	GSM	Uplink	10:15:23.96	DCCH	HANDOVER COMPLETE	

Phase-1 Call Drop Analysis 1 From MS11 CWS MO

	Time	System	Serving band	Call type		Time	RxLev sub	ARFCN	BSIC	LAC RA	C RXQ su	• 0		System	Transf. dir.	Time	Subchannel	Message name	
-1.	7:50:22.541	GSM	900	Voice call	357.	7:49:54.204	-92	25	25	1 0			1016.	GSM	Downlink	7:49:53.678	SACCH	MEASUREMENT_INFORMATION	Analysis:
2.	7:57:46.666	GSM	900	Voice call	358.	7:49:54.204					2		1017.	GSM	Uplink	7:49:53.724	SACCH	MEASUREMENT_REPORT	This call drop event occurred on long call
3.	8:34:35.025	UMTS FDD	2100	Voice call	359.	7:49:54.684	-91	25	25	1 0			1018.	GSM	Downlink	7:49:54.158	SACCH	MEASUREMENT_INFORMATION	at 07:50:22:541 time when UE was
4.	10:15:04.027	GSM	900	Voice call	360.	7:49:54.684					0		1019.	GSM	Uplink	7:49:54.204	SACCH	MEASUREMENT_REPORT	at 07.30.22.341 time when of was
					361.	7:49:55.164					0		1020.	GSM	Downlink	7:49:54.638	SACCH	MEASUREMENT_INFORMATION	latched with 2G network.
					362,	7:49:55.644					1		1021.	GSM	Uplink	7:49:54,684	SACCH	MEASUREMENT_REPORT	
					363,	7:49:55,690	-91	25	25	1 0			1022.	GSM	Downlink	7:49:55.118	SACCH	MEASUREMENT_INFORMATION	After getting Alerting message at
					364,	7:49:56.124					3		1023,	GSM	Uplink	7:49:55.164	SACCH	MEASUREMENT_REPORT	07:48:51:209 time than Call drop
					365.	7:49:56.152	-94	25	25	1 0			1024.	GSM	Downlink	7:49:55.598	SACCH	MEASUREMENT_INFORMATION	happened.
					366.	7:49:56.604					4		1025.	GSM	Uplink	7:49:55.644	SACCH	MEASUREMENT_REPORT	
					367.	7:49:56.650	-92	25	25	1 0			1026.	GSM	Downlink	7:49:56.078	SACCH	SYSTEM_INFORMATION_TYPE_5	During the session UE was latched with
					368,	7:49:57.084					5		1027.	GSM	Uplink	7:49:56.124	SACCH	MEASUREMENT_REPORT	ARECN 25 and RE condition Rx lev -97 dBm
					369.	7:49:57.292	-95	25	25	1 0			1028.	GSM	Downlink	7:49:56.558	SACCH	SYSTEM_INFORMATION_TYPE_STER	is good and Ry qual 7 dB was very noor
					370.	7:49:57.564	-96	25	25	1 0			1029.	GSM	Uplink	7:49:56.604	SACCH	MEASUREMENT_REPORT	
					371.	7:49:57.564				1000	4		1030.	GSM	Downlink	7:49:57.038	SACCH	SYSTEM_INFORMATION_TYPE_6	. As you the Analysis the call action down
					372.	7:49:58.044					5		1031.	GSM	Uplink	7:49:57.084	SACCH	MEASUREMENT_REPORT	As per the Analysis the call setup drop
					373.	7:49:58.211	-95	25	25	1 0			1032.	GSM	Downlink	7:49:57.518	SACCH	MEASUREMENT_INFORMATION	event occurred due to poor quality in the
					374.	7:49:58.524					6		1033.	GSM	Uplink	7:49:57.564	SACCH	MEASUREMENT_REPORT	network.
					375,	7:49:58.589	-97	25	25	1 0			1034.	GSM	Downlink	7:49:57.998	SACCH	MEASUREMENT_INFORMATION	
					376,	7:49:59.004					7		1035.	GSM	Uplink	7:49:58.044	SACCH	MEASUREMENT_REPORT	
					377.	7:49:59.249	-97	25	25	1 0			1036.	GSM	Downlink	7:49:58.478	SACCH	MEASUREMENT_INFORMATION	
					378.	7:49:59.484					6		1037.	GSM	Uplink	7:49:58.524	SACCH	MEASUREMENT_REPORT	
					379.	7:49:59.964	-95	25	25	1 0			1038.	GSM	Uplink	7:49:59.004	SACCH	MEASUREMENT_REPORT	
					380.	7:50:00.665	-96	25	25	1 0			1039.	GSM	Uplink	7:49:59.484	SACCH	MEASUREMENT_REPORT	
					381.	7:50:01.404					7		1040.	GSM	Downlink	7:49:59.918	SACCH	SYSTEM_INFORMATION_TYPE_5	
					382,	7:50:01.446	-97	25	25	1 0			1041.	GSM	Uplink	7:49:59.964	SACCH	MEASUREMENT_REPORT	
					383.	7:50:01.884			19 E		6		1042.	GSM	Downlink	7:50:00.398	SACCH	SYSTEM_INFORMATION_TYPE_STER	
					384,	7:50:01.889	-97	25	25	1 0			1043.	GSM	Uplink	7:50:00.444	SACCH	MEASUREMENT_REPORT	
					385.	7:50:02.364	-97	25	25	1 0			1044.	GSM	Downlink	7:50:00.878	SACCH	SYSTEM_INFORMATION_TYPE_6	
					386.	7:50:02.364					7		1045.	GSM	Uplink	7:50:00.924	SACCH	MEASUREMENT_REPORT	
					387.	7:50:03.190	-98	25	25	1 0			1046.	GSM	Uplink	7:50:01.404	SACCH	MEASUREMENT_REPORT	
					388.	7:50:03.324	-96	25	25	1 0			1047.	GSM	Uplink	7:50:01.884	SACCH	MEASUREMENT_REPORT	
					389.	7:50:03.324					6		1048.	GSM	Uplink	7:50:02.364	SACCH	MEASUREMENT_REPORT	
					390,	7:50:03.804					7		1049.	GSM	Uplink	7:50:02.844	SACCH	MEASUREMENT_REPORT	
					391.	7:50:04.205	-96	25	25	1 0			1050.	GSM	Uplink	7:50:03.324	SACCH	MEASUREMENT_REPORT	
					392.	7:50:04.284					6		1051.	GSM	Uplink	7:50:03.804	SACCH	MEASUREMENT_REPORT	

Phase-1 Call Drop Analysis 2 From MS11 CWS MO

1	Time	System	Serving	band Call type		Time	RxLev su	ID ARFCI	I BSIC	LAC	RAC	RXQ sub 🔺	-	System	Transt. dir.	Time	Subchannel	Message name	
1.	7:50:22.541	GSM	900	Voice call	773.	7:56:29.865	-90	25	27	1	10		2075.	UMTS FDD	Downlink	7:57:35.360	DCCH	ROUTING_AREA_UPDATE_ACCEPT	Analysis:
2.	7:57:46.665	GSM	900	Voice call	774.	7:56:29.939						4	2076.	UMTS FDD	Uplink	7:57:35.362	DCCH	UPLINK_DIRECT_TRANSFER	This call, drop event occurred on long call
3,	8:34:35.025	UMTS FDD	2100	Voice call	775.	7:56:30.213	-91	25	27	1	10		2077.	UMTS FDD	Uplink	7:57:35.362	DCCH	ROUTING_AREA_UPDATE_COMPLETE	at 07:57:46:666 time when UE was
4.	10:15:04.027	GSM	900	Voice call	776,	7:56:30.420						1	2078.	UMTS FDD	Uplink	7:57:36.161	DCCH	MEASUREMENT_REPORT	
					777.	7:56:30.664	-91	25	27	1	10		2079.	UMTS FDD	Uplink	7:57:36.208	DCCH	MEASUREMENT_REPORT	latched with 2G network.
					778.	7:56:30.900						0	2080.	UMTS FDD	Uplink	7:57:37.161	DCCH	MEASUREMENT_REPORT	
					779.	7:56:31.204	-91	25	27	1	10		2081,	UMTS FDD	Uplink	7:57:38.121	DCCH	MEASUREMENT_REPORT	 After getting Alerting message at
					780.	7:56:31.380						1	2082.	UMTS FDD	Uplink	7:57:38.161	DCCH	MEASUREMENT_REPORT	07:57:34:200 time than Call drop
					781.	7:56:31.860						0	2083.	UMTS FDD	Uplink	7:57:39.161	DCCH	MEASUREMENT_REPORT	hannened
					782.	7:56:31.887	-89	25	27	1	10		2084.	UMTS FDD	Uplink	7:57:39.450	DCCH	MEASUREMENT_REPORT	happened.
					783.	7:56:32.293						0	2085.	UMTS FDD	Uplink	7:57:40.161	DCCH	MEASUREMENT_REPORT	
					784.	7:56:32.347	-89	25	27	1	10		2086.	UMTS FDD	Uplink	7:57:41.161	DCCH	MEASUREMENT_REPORT	 During the session UE was latched with
					785.	7:56:32.992	-89	25	27	1	10		2087.	UMTS FDD	Uplink	7:57:42.161	DCCH	MEASUREMENT_REPORT	ARFCN 25 and RF condition Rx lev -93 dBm
					786.	7:56:32.992							2088.	UMTS FDD	Uplink	7:57:43.161	DCCH	MEASUREMENT_REPORT	is good and Rx qual 5 dB was very poor.
					787,	7:57:44.344	-92	25	27	10	10		2089,	UMTS FDD	Downlink	7:57:43.920	DCCH	HANDOVER_FROM_UTRAN_COMMAND_G	o i i i
					788.	7:57:44,344						7	2090.	UMTS FDD	Downlink	7:57:43.920	DCCH	HANDOVER_COMMAND	As por the Analysis, the call setup drop
					789.	7:57:44.824	-94	25	27	10	10		2091.	GSM	Downlink	7:57:43.956	DCCH	HANDOVER_COMMAND	As per the Analysis the can setup drop
					790.	7:57:44.824						7	2092.	GSM	Downlink	7:57:44.067	DCCH	PHYSICAL INFORMATION	event occurred due to poor quality in the
					791.	7:57:45.521	-90	25	27	10	10		2093.	GSM	Uplink	7:57:44.067	DCCH	HANDOVER_COMPLETE	network.
					792.	7:57:45.521						2	2094.	GSM	Downlink	7:57:44.127	DCCH	PHYSICAL_INFORMATION	
					793.	7:57:45.779						5	2095.	GSM	Uplink	7:57:44.196	DCCH	GPRS_SUSPENSION_REQUEST	
					794.	7:57:46.204	-93	25	27	1	10		2096.	GSM	Downlink	7:57:44.325	DCCH	IDENTITY_REQUEST	
					795.	7:57:46.259		100			and the second	5	2097.	GSM	Uplink	7:57:44.326	DCCH	IDENTITY_RESPONSE	
					796.	7:57:46.739	-94	25	27	1	10		2098.	GSM	Uplink	7:57:44.339	SACCH	MEASUREMENT_REPORT	
					797.	7:57:46.739						6	2099.	GSM	Downlink	7:57:44.773	SACCH	SYSTEM_INFORMATION_TYPE_5	
					798.	7:57:47.156							2100,	GSM	Uplink	7:57:44.819	SACCH	MEASUREMENT_REPORT	
					799.	7:57:51,211				1	0		2101.	GSM	Downlink	7:57:45.253	SACCH	SYSTEM INFORMATION TYPE STER	
					800.	7:57:51.592					18-1-1 	7	2102.	GSM	Uplink	7:57:45.299	SACCH	MEASUREMENT_REPORT	
					801.	7:57:51.744	-92	20	27	1	0		2103.	GSM	Downlink	7:57:45.733	SACCH	SYSTEM_INFORMATION_TYPE_6	
					802.	7:57:52.063		14-37	0.020			6	2104.	GSM	Uplink	7:57:45,779	SACCH	MEASUREMENT REPORT	
					803.	7:57:52.163	-91	20	27	1	0		2105.	GSM	Downlink	7:57:46.213	SACCH	MEASUREMENT_INFORMATION	
					804.	7:57:52.533	-6.iv					0	2106.	GSM	Uplink	7:57:46.259	SACCH	MEASUREMENT REPORT	
					805.	7:57:52.685	-88	20	27	1	0		2107.	GSM	Downlink	7:57:46.665	DCCH	DISCONNECT	
					806.	7:57:53.004	Y	1000	1.040	1		0	2108.	GSM	Uplink	7:57:46.666	DCCH	RELEASE	
					807.	7:57:53.212	-88	20	27	1	0		2109.	GSM	Downlink	7:57:46.693	SACCH	MEASUREMENT INFORMATION	
					808.	7:57:53.475		1000		1	i.L.	0	2110.	GSM	Uplink	7:57:46.739	SACCH	MEASUREMENT REPORT	
					809.	7:57:53,479	-91	20	27	1	0	-	2111.	GSM	Downlink	7:57:46.827	DCCH	RELEASE COMPLETE	
4)	810.	7:57:53.946						0 +	4	1.444.4			n=011722)	10/2022/07:00:07:00	

Phase-1 Call Drop Analysis 3 From MS11 CWS MO

	Time	System	Serving ban	id Call type		1. best active RSCP	Time	Ch	SC	1. best active Ec/N0 🔺		System Transf. dir.	Time	Subchannel	Message name	
1.	7:50:22.541	GSM	900	Voice call	819.	-77.2	8:34:32.827	10690	147		9451.	UMTS FDD Uplink	8:33:53.913	DCCH	MEASUREMENT_REPORT	Analysis:
2.	7:57:46.666	GSM	900	Voice call	820,	-77.2	8:34:32.859	10690	147		9452.	UMTS FDD Uplink	8:33:55.658	DCCH	MEASUREMENT_REPORT	This call drop event occurred on long call
3.	8:34:35.025	UMTS FDD	2100	Voice call	821,	-81.2	8:34:33.328	10690	147		9453.	UMTS FDD Uplink	8:33:55.708	DCCH	MEASUREMENT_REPORT	at 08:24:25:025 time when US was
4.	10:15:04.027	GSM	900	Voice call	822,	and the second s	8:34:33.328	10690	147	-24.8	9454.	UMTS FDD Uplink	8:34:01.708	DCCH	MEASUREMENT_REPORT	at 08:34:35:025 time when the was
()					823.	-77.7	8:34:33.807	10690	147		9455.	UMTS FDD Uplink	8:34:02.759	DCCH	MEASUREMENT_REPORT	latched with 2G network.
					824,	-77.7	8:34:33.859	10690	147		9456.	UMTS FDD Uplink	8:34:07.658	DCCH	MEASUREMENT_REPORT	
					825,	-71.8	8:34:34.223	10690	147		9457.	UMTS FDD Uplink	8:34:07.718	DCCH	MEASUREMENT_REPORT	 After getting Alerting message at
					826.		8:34:34.223	10690	147	-24.8	9458.	UMTS FDD Uplink	8:34:13.718	DCCH	MEASUREMENT_REPORT	08:33:43:879 time than Call drop
					827.	-71.8	8:34:34.859	10690	147		9459.	UMTS FDD Uplink	8:34:16.490	DCCH	MEASUREMENT_REPORT	happened.
					828,		8:34:34.859	10690	147	-24:8	9460.	UMTS FDD Uplink	8:34:19.658	DCCH	MEASUREMENT_REPORT	
					829.	-89.4	8:34:35.499	10690	147		9461.	UMTS FDD Uplink	8:34:19.728	DCCH	MEASUREMENT_REPORT	During the failure LIE was latched with
					830.		8:34:35.499	10690	147	-24.8	9462.	UMTS FDD Uplink	8:34:20.470	DCCH	MEASUREMENT_REPORT	During the failure, OE was fatched with
					831,	-89.4	8:34:37.039	10690	147		9463,	UMTS FDD Uplink	8:34:20.520	DCCH	MEASUREMENT_REPORT	
					832.	10/10/1	8:34:37.039	10690	147	-24.8	9464.	UMTS FDD Uplink	8:34:21.663	DCCH	MEASUREMENT_REPORT	poor but Ec/No -24.8 dB are very poor.
					833.	-62.5	8:34:38.793	10690	48		9465.	UMTS FDD Uplink	8:34:24.506	DCCH	MEASUREMENT_REPORT	
					834,		8:34:38.793	10690	48	-1.5	9466.	UMTS FDD Uplink	8:34:24.580	DCCH	MEASUREMENT_REPORT	 As per the Analysis the call setup drop
					835.	-96	8:35:57.804	10690	147		9467.	UMTS FDD Uplink	8:34:25.728	DCCH	MEASUREMENT_REPORT	event occurred due to poor quality in the
					836.		8:35:57.804	10690	147	-8.5	9468.	UMTS FDD Uplink	8:34:27.061	DCCH	MEASUREMENT_REPORT	network.
					837.	-96	8:35:58.249	10690	147	1240.00	9469.	UMTS FDD Downlink	8:34:27.657	DCCH	RADIO_BEARER_RECONFIGURATION	
					838,		8:35:58.249	10690	147	-10.9	9470.	UMTS FDD Uplink	8:34:28.230	DCCH	RADIO_BEARER_RECONFIGURATION_COM	
					839.	-96	8:35:58.937	10690	147		9471.	UMTS FDD Downlink	8:34:28.457	DCCH	MEASUREMENT_CONTROL	
					840,	100	8:35:58.937	10690	147	-8.7	9472.	UMTS FDD Uplink	8:34:28.501	DCCH	MEASUREMENT_REPORT	
					841.	-96	8:35:59.250	10690	147		9473.	UMTS FDD Downlink	8:34:28.537	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION	
					842.		8:35:59.250	10690	147	-10.8	9474.	UMTS FDD Uplink	8:34:28.631	DCCH	MEASUREMENT_REPORT	
					843.	-96	8:35:59.853	10690	147		9475.	UMTS FDD Uplink	8:34:28.920	DCCH	MEASUREMENT_REPORT	
					844,		8:35:59.853	10690	147	-7.7	9476,	UMTS FDD Uplink	8:34:29.329	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_C	
					845.	-96	8:36:00.449	10690	147		9477.	UMTS FDD Downlink	8:34:29.858	DCCH	MEASUREMENT_CONTROL	
					846.		8:36:00.449	10690	147	-7.2	9478.	UMTS FDD Uplink	8:34:30.467	DCCH	MEASUREMENT_REPORT	
					847.	-93.7	8:36:00.869	10690	147		9479.	UMTS FDD Uplink	8:34:30.859	DCCH	MEASUREMENT_REPORT	
					848.		8:36:00.869	10690	147	-8.5	9480.	UMTS FDD Uplink	8:34:31.050	DCCH	MEASUREMENT_REPORT	
					849.	-97	8:36:01.449	10690	147		9481.	UMTS FDD Uplink	8:34:31.658	DCCH	MEASUREMENT_REPORT	
					850.	- Sile	8:36:01.449	10690	147	-11.2	9482	UMTS FDD Uplink	8:34:31.738	DCCH	MEASUREMENT REPORT	
					851.	-93.1	8:36:01.950	10690	147		9483.	UMTS FDD Uplink	8:34:31.859	DCCH	MEASUREMENT_REPORT	
					852.		8:36:01.950	10690	147	-8.9	9484.	UMTS FDD Uplink	8:34:32.490	DCCH	MEASUREMENT_REPORT	
					853.	-92.7	8:36:02.529	10690	147		9485.	UMTS FDD Uplink	8:34:32.859	DCCH	MEASUREMENT REPORT	
					854.		8:36:02.529	10690	147	-7.3	9486.	UMTS FDD Uplink	8:34:33.859	DCCH	MEASUREMENT REPORT	
					855	.96.7	8-36-03 240	10690	147	FINE C	0487	UNITS EDD. Unlink	8-24-24 850	DCCH	MEASUREMENT REPORT	

Phase-1 Call Drop Analysis 4 From MS11 CWS MO

	Time	System	Serving band	Call type		Time	RxLev sub	ARFC	BSIC	LAC	RAC	RXQ sub 🔺	-	System	Transf. dir.	Time Sub	ochannel	Message name	
1.	7:50:22.541	GSM	900	Voice call	9131,	10:14:37.351	-93	25	42	1	10		21544.	GSM	Uplink	10:14:56.90E SAC	CH	MEASUREMENT_REPORT	Analysis:
2.	7:57:46.666	GSM	900	Voice call	9132,	10:14:37.708						6	21545,	GSM	Uplink	10:14:57.38E SAC	СН	MEASUREMENT_REPORT	This call drop event occurred on long call
3,	8:34:35.025	UMTS FDD	2100	Voice call	9133.	10:14:38.188						7	21546.	GSM	Uplink	10:14:57.86E SAC	сн	MEASUREMENT_REPORT	at 10:15:04:027 time when US was
4,	10:15:04.027	GSM	900	Voice call	9134,	10:14:38.193	-97	25	42	1	10		21547,	GSM	Uplink	10:14:58.34{ SAC	CCH	MEASUREMENT_REPORT	at 10:15:04:027 time when DE was
					9135,	10:14:39.229	-96	25	42	1	10		21548,	GSM	Uplink	10:14:58,821 SAC	CCH	MEASUREMENT_REPORT	latched with 2G network.
					9136.	10:14:39.628	-96	25	42	1	10		21549.	GSM	Uplink	10:14:59.301 SAC	сн	MEASUREMENT_REPORT	
					9137,	10:14:39.628						5	21550.	GSM	Uplink	10:14:59.781 SAC	CH	MEASUREMENT_REPORT	After getting Alerting message at
					9138,	10:14:40.108						5	21551.	GSM	Uplink	10:15:00.26E SAC	СН	MEASUREMENT_REPORT	10.14.04.262 time than Call dron
					9139,	10:14:40.229	-94	25	42	1	10		21552.	GSM	Uplink	10:15:00.741 SAC	CH	MEASUREMENT_REPORT	hannonod
					9140.	10:14:40.588						7	21553.	GSM	Uplink	10:15:01.221 SAC	CCH	MEASUREMENT_REPORT	happeneu.
					9141.	10:14:40.713	-98	25	42	1	10		21554.	GSM	Uplink	10:15:01.70! SAC	сн	MEASUREMENT_REPORT	
					9142.	10:14:41.068						5	21555.	GSM	Uplink	10:15:02.18(SAC	СН	MEASUREMENT_REPORT	 During the session UE was latched with
					9143,	10:14:41.286	-94	25	42	1	10		21556.	GSM	Uplink	10:15:02.661 SAC	CH	MEASUREMENT_REPORT	ARFCN 25 and RF condition Rx lev -98 dBm
					9144.	10:14:41.548	-98	25	42	1	10		21557.	GSM	Uplink	10:15:03.14(SAC	сн	MEASUREMENT_REPORT	is good and Rx gual 7 dB was very poor.
					9145,	10:14:41.548			1			7	21558.	GSM	Uplink	10:15:03.60" DCC	СН	CM_RE-ESTABLISHMENT_REQUEST	
					9146,	10:14:42.028				121		6	21559.	GSM	Downlink	10:15:03.961 BCC	äΗ	SYSTEM_INFORMATION_TYPE_3	• As par the Analysis, the call setup drop
					9147,	10:14:42.283	-97	25	42	1	10		21560.	GSM	Downlink	10:15:04.204 BCC	CH	SYSTEM_INFORMATION_TYPE_4	As per the Analysis the call setup drop
					9148,	10:14:42.508						7	21561.	GSM	Downlink	10:15:04.291 CCC	СН	PAGING_REQUEST_TYPE_1	event occurred due to poor quality in the
					9149,	10:14:42.988	-98	25	42	1	10		21562.	GSM	Downlink	10:15:04.68: BCC	н	SYSTEM_INFORMATION_TYPE_2QUATER	network.
					9150.	10:14:43.948	-98	25	42	1	10		21563.	GSM	Downlink,	10:15:05.15(BCC	н	SYSTEM_INFORMATION_TYPE_4	
					9151.	10:14:44.428						6	21564.	GSM	Downlink	10:15:05.371 BCC	CH	SYSTEM_INFORMATION_TYPE_1	
					9152,	10:14:44.654	-96	25	42	1	10		21565,	GSM	Downlink	10:15:05.62 BCC	н	SYSTEM_INFORMATION_TYPE_2	
					9153,	10:14:45.272	-96	25	42	1	10		21566.	GSM	Downlink	10:15:05.851 BCC	CH	SYSTEM_INFORMATION_TYPE_3	
					9154.	10:14:45.868						7	21567.	GSM	Downlink	10:15:06.081 BCC	н	SYSTEM_INFORMATION_TYPE_4	
					9155.	10:14:45.895	-97	25	42	1	10		21568.	GSM	Downlink	10:15:06.318 BCC	сн	SYSTEM_INFORMATION_TYPE_13	
					9156.	10:14:46.348	-99	25	42	1	10		21569,	GSM	Uplink	10:15:06.333 DCC	СН	LOCATION_UPDATING_REQUEST	
					9157,	10:14:46.892	-98	25	42	1	10		21570.	GSM	Downlink	10:15:06.44" CCC	CH	PAGING_REQUEST_TYPE_1	
					9158.	10:14:47.433	-97	25	42	1	10		21571.	GSM	Downlink	10:15:06.465 CCC	сн	PAGING_REQUEST_TYPE_1	
					9159,	10:14:47.788	-99	25	42	1	10		21572.	GSM	Downlink	10:15:06.481 CCC	СН	IMMEDIATE_ASSIGNMENT	
					9160.	10:14:48.374	-98	25	42	1	10		21573.	GSM	Downlink	10:15:06.721 SAC	CH	SYSTEM_INFORMATION_TYPE_5	
					9161.	10:14:48.831	-99	25	42	1	10	-	21574.	GSM	Uplink	10:15:06.885 DCC	CH	CLASSMARK_CHANGE	
					9162.	10:14:49.708	-97	25	42	1	10		21575.	GSM	Uplink	10:15:06.89(DCC	СН	UTRAN_CLASSMARK_CHANGE	
					9163,	10:14:49.708						7	21576.	GSM	Uplink	10:15:05.89(DCC	СН	GPRS_SUSPENSION_REQUEST	
					9164,	10:14:50.188	-97	25	42	1	10		21577.	GSM	Downlink	10:15:07.12! DCC	СН	IDENTITY_REQUEST	
					9165,	10:14:50.188						7	21578.	GSM	Uplink	10:15:07.12! DCC	сн	IDENTITY RESPONSE	
					9166.	10:14:51.229	-99	25	42	1	10		21579.	GSM	Downlink	10:15:07.19[SAC	CH	SYSTEM_INFORMATION_TYPE_5	
					9167.	10:14:51.692	-98	25	42	1	10	+	21580.	GSM	Uplink	10:15:07.30(SAC	ССН	MEASUREMENT_REPORT	
80				31				102000		1		1	1	a strategy	The Academic			A MERICAN DATABASED DEPENDENT CONTRACT	

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	4
Poor Coverage	4

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	20
Poor Coverage	17
Poor Quality	2
Network End	1

Call Drop cause from Airtel	Count
Total Call Drop	3
Poor Coverage	3

Call Drop cause from CWS	Count
Total Call Drop	1
Poor Coverage	1

Phase-2 Call Attempt Failure Analysis 1 From MS5 Airtel MO

	Time	System	Serving band		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sut +		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	13:05:42:921	GSM	900	54.	13:05:26.579	-97	96	47	50000	1		10597.	L3SM	GSM	Uplink	13:05:32.032	DCCH	CLASSMARK_CHANGE	
2.	13:13:28.823	GSM	900	55.	13:05:26.912	.97	96	47	50000	1		10598.	L35M	GSM	Uplink	13:05:32.033	DCCH	GPRS_SUSPENSION_REQUEST	
3.	13:26:46.784	UMTS FDD	2100	56.	13:05:28.029				50000	1		10599.	L3SM	GSM	Uplink	13:05:32.300	SACCH	MEASUREMENT_REPORT	
4.	15:29:32.002	GSM	900	57.	13:05:29.834				50000	1		10600.	L3SM	GSM	Uplink	13:05:32.771	SACCH	MEASUREMENT_REPORT	
				58.	13:05:30.264	-97	96	47	50000	1		10601.	L3SM	GSM	Uplink	13:05:33.242	SACCH	MEASUREMENT_REPORT	
				59.	13:05:31.905	-97	96	47	50000	1		10602.	L3SM	GSM	Uplink	13:05:33.713	SACCH	MEASUREMENT_REPORT	
				60,	13:05:32.337	-95	96	47	50000	1		10603.	L3SM	GSM	Uplink	13:05:34,183	SACCH	MEASUREMENT_REPORT	
				61.	13:05:32.337						7	10604.	L3SM	GSM	Uplink	13:05:34.654	SACCH	MEASUREMENT_REPORT	
				62.	13:05:32,886	-95	96	47	50000	1		10605.	L3SM	GSM	Uplink	13:05:35.125	SACCH	MEASUREMENT_REPORT	
				63.	13:05:33.357	-96	96	47	50000	1		10606.	L3SM	GSM	Uplink	13:05:35.596	SACCH	MEASUREMENT_REPORT	
				64.	13:05:33.907	-96	96	47	50000	1		10607.	L3SM	GSM	Uplink	13:05:36.066	SACCH	MEASUREMENT_REPORT	
				65.	13:05:34,445	-96	96	47	50000	1		10608.	L3SM	GSM	Uplink	13:05:36.537	SACCH	MEASUREMENT_REPORT	
				66.	13:05:35.092	-96	96	47	50000	1		10609.	L3SM	GSM	Uplink	13:05:37.008	SACCH	MEASUREMENT_REPORT	
				67.	13:05:35.338	-95	96	47	50000	1		10610.	L3SM	GSM	Uplink	13:05:37.479	SACCH	MEASUREMENT_REPORT	
				68.	13:05:36.066	-96	96	47	50000	1		10611.	L3SM	GSM	Uplink	13:05:37.949	SACCH	MEASUREMENT_REPORT	
				69.	13:05:37.123	.96	96	47	50000	1		10612.	L3SM	GSM	Downlink	13:05:38.388	DCCH	AUTHENTICATION_REQUEST	
				70.	13:05:37.594	-96	96	47	50000	1		10613.	L3SM	GSM	Uplink	13:05:38.420	SACCH	MEASUREMENT_REPORT	
				71,	13:05:38.065	-96	96	47	50000	1		10614.	L3SM	GSM	Uplink	13:05:38.516	DCCH	AUTHENTICATION_RESPONSE	
				72,	13:05:38,569	-94	96	47	50000	1		10615.	L35M	GSM	Uplink	13:05:38.891	SACCH	MEASUREMENT_REPORT	
				73.	13:05:38.569						7	10616.	L3SM	GSM	Uplink	13:05:39.362	SACCH	MEASUREMENT_REPORT	
				74.	13:05:39.006	-95	96	47	50000	1		10617.	L3SM	GSM	Uplink	13:05:39.832	SACCH	MEASUREMENT_REPORT	
				75.	13:05:39.006						7	10618.	L3SM	GSM	Uplink	13:05:40.303	SACCH	MEASUREMENT_REPORT	
				76.	13:05:39.477	-97	96	47	50000	1		10619.	L3SM	GSM	Uplink	13:05:40.774	SACCH	MEASUREMENT_REPORT	
				77.	13:05:40.303	-96	96	47	50000	1		10620.	L3SM	GSM	Uplink	13:05:41.245	SACCH	MEASUREMENT_REPORT	
				78.	13:05:41.245	-96	96	47	50000	1		10621.	L3SM	GSM	Uplink	13:05:41.716	SACCH	MEASUREMENT_REPORT	
				79,	13:05:41.832	-96	96	47	50000	1		10622.	L3SM	GSM	Uplink	13:05:42.186	SACCH	MEASUREMENT_REPORT	
				80,	13:05:42.302	-96	96	47	50000	1		10623,	L3SM	GSM	Uplink	13:05:42.657	SACCH	MEASUREMENT_REPORT	
				81.	13:05:42.921	-96	96	47	50000	1		10624.	L3SM	GSM	Downlink	13:05:42.860	DCCH	CM_SERVICE_REJECT	
				82.	13:05:43.331	-95	96	47	50000	1		10625.	L3SM	GSM	Uplink	13:05:43.128	SACCH	MEASUREMENT_REPORT	
				83.	13:05:43.833	-96	96	47	50000	1		10626.	L3SM	GSM	Uplink	13:05:43.599	SACCH	MEASUREMENT_REPORT	
				84.	13:05:44.272	-96	96	47	50000	1		10627.	L3SM	GSM	Downlink	13:05:44.037	DCCH	CHANNEL_RELEASE	
				85.	13:05:44.272				2012/01/01			10628.	L3SM	GSM	Downlink	13:05:50.110	BCCH	SYSTEM_INFORMATION_TYPE_3	
				86.	13:05:44.997	-96	96	47	50000	1		10629.	RRCSM	LTE FDD	Downlink	13:05:50.567	BCCH-BCH	MasterInformationBlock	
				87.	13:05:47.908				50000	1		10630.	RRCSM	LTE FDD	Downlink	13:05:50.621	BCCH-SCH	SystemInformationBlockType1	
				88.	13:05:48.571				50000	1		10631.	RRCSM	LTE FDD	Downlink	13:05:50.621	BCCH-SCH	SystemInformation - SIB2, SIB3	
				89.	13:06:24.836						0	10632.	L3SM	LTE FDD	Uplink	13:05:50.635		TRACKING AREA UPDATE REQUEST	

- This call failure event occurred on short call at 13:05:42:921 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 96 and RF condition Rx lev -94 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

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Phase-2 Call Attempt Failure Analysis 2 From MS5 Airtel MO

	Time	System	Serving band		Time	RxLev :	sub ARFCN	BSIC	LAC R	AC RXQ sut +		Event ID	System	Transf. dir.	Time	Subchannel	I Message name			
1.	13:05:42.921	GSM	900	166.	13:12:01.117	-91	96	47	50000 1		13700.	L3SM	UMTS FDD	Downlink	13:13:23.152	DCCH	GMM_INFO		Δ	nalysis:
2.	13:13:28.823	GSM	900	167.	13:12:01.407	-90	96	47	50000 1		13701.	RRCSM	UMTS FDD	Downlink	13:13:23.432	DCCH	SIGNALLING_CONNECTION_RELEASE			This call failure event oc
3.	13:26:46.784	UMTS FDD	2100	168,	13:12:02.211	-90	96	47	50000 1		13702.	RRCSM	UMTS FDD	Uplink	13:13:23.566	DCCH	INITIAL_DIRECT_TRANSFER			call at $12:12:22:22:22$ time
4.	15:29:32.002	GSM	900	169.	13:12:02.838	-89	96	47	50000 1		13703.	L3SM	UMTS FDD	Uplink	13:13:23.566	DCCH	SERVICE_REQUEST			latebad with 2C patwar
	10			170.	13:12:03.166	-89	96	47	50000 1		13704.	RRCSM	UMTS FDD	Downlink	13:13:23.752	DCCH	MEASUREMENT_CONTROL			latched with 2G network
				171.	13:12:03.683	-90	96	47	50000 1	-	13705.	RRCSM	UMTS FDD	Uplink	13:13:23.843	DCCH	MEASUREMENT_REPORT			
				172.	13:12:04.365	-90	96	47	50000 1		13706.	RRCSM	UMTS FDD	Uplink	13:13:23.925	DCCH	MEASUREMENT_REPORT		•	After sending "CM Servi
				173.	13:12:04.896	.90	96	47	50000 1		13707.	RRCSM	UMTS FDD	Downlink	13:13:23.952	DCCH	DOWNLINK_DIRECT_TRANSFER	- E 4		message to core networ
				174.	13:12:05.099	-90	96	47	50000 1		13708.	L3SM	UMTS FDD	Downlink	13:13:23.952	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST			network responds with
				175.	13:12:05.904	-89	96	47	50000 1		13709.	RRCSM	UMTS FDD	Uplink	13:13:24.080	DCCH	UPLINK_DIRECT_TRANSFER			message. After that call
				176.	13:12:06.146	-89	96	47	50000 1		13710.	L3SM	UMTS FDD	Uplink	13:13:24.080	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE			failed.
				177.	13:13:25.375	-96	99	31	62000 4		13711.	RRCSM	UMTS FDD	Uplink	13:13:24.093	DCCH	MEASUREMENT_REPORT			
				178,	13:13:25.375	Rea:				7	13712.	RRCSM	UMTS FDD	Uplink	13:13:24.154	DCCH	MEASUREMENT_REPORT		•	During the call failure
				179.	13:13:25.855	-95	99	31	62000 4		13713,	RRCSM	UMTS FDD	Downlink	13:13:24.272	DCCH	HANDOVER_FROM_UTRAN_COMMAND_GSM			with ARECN 99 and RE c
				180.	13:13:25.855					7	13714.	L3SM	UMTS FDD	Downlink	13:13:24.272	DCCH	HANDOVER_COMMAND			dPm and Py gual 7 dP h
				181.	13:13:26.921	.95	99	31	62000 4		13715.	L3SM	GSM	Downlink.	13:13:24.320	DCCH	HANDOVER_COMMAND			
				182.	13:13:26.921					7	13716.	L3SM	GSM	Downlink	13:13:24.660	DCCH	PHYSICAL_INFORMATION			
				183.	13:13:27.359					7	13717,	L3SM	GSM	Uplink	13:13:24.660	DCCH	HANDOVER_COMPLETE		•	As per the Analysis the
				184.	13:13:27.904	-95	99	31	62000 4		13718.	L3SM	GSM	Uplink	13:13:25.150	DCCH	GPRS_SUSPENSION_REQUEST			event occurred due to p
				185.	13:13:27.904					6	13719.	L3SM	GSM	Uplink	13:13:25.375	SACCH	MEASUREMENT_REPORT			the network.
				186.	13:13:28.781	-94	99	31	62000 4	- F.	13720.	L3SM	GSM	Downlink	13:13:25.583	DCCH	PROGRESS			
				187.	13:13:28.781					7	13721.	L3SM	GSM	Uplink	13:13:25.855	SACCH	MEASUREMENT_REPORT	- 1		
				188.	13:13:29.629						13722.	L3SM	GSM	Downlink	13:13:26.289	SACCH	SYSTEM_INFORMATION_TYPE_5			
				189.	13:13:31.063	-94	99	31	62000 1		13723.	L3SM	GSM	Uplink	13:13:26.335	SACCH	MEASUREMENT_REPORT			
				190.	13:13:32.054	Į.			50000 1		13724.	L3SM	GSM	Downlink	13:13:26.769	SACCH	MEASUREMENT_INFORMATION	- 76		
				191.	13:13:32.525	-95	107		50000 1		13725.	L3SM	GSM	Uplink	13:13:26.815	SACCH	MEASUREMENT_REPORT			
				192.	13:13:32.995	-91	107		50000 1		13726.	L3SM	GSM	Uplink	13:13:27.295	SACCH	MEASUREMENT_REPORT			
				193.	13:13:33.895	-94	107		50000 1		13727.	L3SM	GSM	Downlink	13:13:27.729	SACCH	SYSTEM_INFORMATION_TYPE_5			
				194.	13:13:34.835	-94	107		50000 1		13728.	L3SM	GSM	Uplink	13:13:27.775	SACCH	MEASUREMENT_REPORT			
				195.	13:13:35.226	-96	107	31	50000 1		13729.	L3SM	GSM	Uplink	13:13:28.255	SACCH	MEASUREMENT_REPORT			
				196,	13:13:35,903	-97	107	31	50000 1		13730.	L3SM	GSM	Uplink	13:13:28.694	DCCH	DISCONNECT			
				197.	13:13:36.487	-97	107	31	50000 1		13731.	L3SM	GSM	Uplink	13:13:28.735	SACCH	MEASUREMENT_REPORT			
				198,	13:13:36.832	-97	107	31	50000 1		13732.	L3SM	GSM	Downlink	13:13:28.823	DCCH	RELEASE			
				199,	13:13:37.247	-97	107	31	50000 1		13733,	L3SM	GSM	Uplink	13:13:28.823	DCCH	RELEASE_COMPLETE			
				200,	13:13:37.898	-97	107	31	50000 1		13734.	L3SM	GSM	Downlink	13:13:29.100	DCCH	CHANNEL_RELEASE			
				201.	13:13:38.327	-97	107	31	50000 1		13735.	L3SM	GSM	Downlink	13:13:31.037	BCCH	SYSTEM_INFORMATION_TYPE_3			

- ccurred on short e when UE was
- ice Request" rk, then core "Call Proceeding" setup has been
- UE was latched condition Rx lev -94 oth are poor.
- call setup failure boor coverage of

Phase-2 Call Attempt Failure Analysis 3 From MS5 Airtel MO

	Time	System	Serving b	and		1. best active RSCP	Time	Ch	SC	1. best +		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	13:05:42.921	GSM	900	North I	Call 5265.	-114.9	13:26:39.446	10562	349		18447,	L3SM	UMTS FDD	Uplink	13:26:38.824	DCCH	SETUP	-
2.	13:13:28.823	GSM	900		Nor 5266.		13:26:39.446	10562	349	-13.9	18448.	RRCSM	UMTS FDD	Downlink	13:26:38.982	DCCH	DOWNLINK_DIRECT_TRANSFER	
3.	13:26:46.784	UMTS FDE	2100		Drc 5267.	-111.8	13:26:39.875	10562	349		18449.	L3SM	UMTS FDD	Downlink	13:26:38.982	DCCH	CALL_PROCEEDING	
4.	15:29:32.002	GSM	900		Call 5268.		13:26:39.875	10562	349	-11.9	18450.	RRCSM	UMTS FDD	Uplink	13:26:39.547	DCCH	MEASUREMENT_REPORT	
					5269.	-111.4	13:26:40.406	10562	349		18451.	RRCSM	UMTS FDD	Uplink	13:26:39.586	DCCH	MEASUREMENT_REPORT	
					5270.	and the second s	13:26:40.406	10562	349	-11	18452	RRCSM	UMTS FDD	Downlink	13:26:39.902	DCCH	RADIO_BEARER_SETUP	
					5271.	-107	13:26:40.933	10562	349		18453.	RRCSM	UMTS FDD	Uplink	13:26:40.226	DCCH	RADIO_BEARER_SETUP_COMPLETE	
					5272.	and the second sec	13:26:40.933	10562	349	-8.6	18454.	RRCSM	UMTS FDD	Downlink	13:26:40.503	DCCH	MEASUREMENT_CONTROL	
					5273.	-112.2	13:26:41.433	10562	349		18455.	RRCSM	UMTS FDD	Downlink	13:26:40.543	DCCH	MEASUREMENT_CONTROL	
					5274.		13:26:41.433	10562	349	-11.8	18456	RRCSM	UMTS FDD	Downlink	13:26:40.663	DCCH	RADIO_BEARER_RECONFIGURATION	-07
					5275.	-107.7	13:26:41.933	10562	349		18457.	RRCSM	UMTS FDD	Downlink	13:26:40.703	DCCH	DOWNLINK_DIRECT_TRANSFER	
					5276.	8	13:26:41.933	10562	349	-10.3	18458	L3SM	UMTS FDD	Downlink	13:26:40.703	DCCH	PROGRESS	
					5277.	-104.3	13:26:42.433	10562	349		18459.	RRCSM	UMTS FDD	Uplink	13:26:40.705	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
					5278		13:26:42.433	10562	349	-7.7	18460.	RRCSM	UMTS FDD	Uplink	13:26:40.964	DCCH	MEASUREMENT_REPORT	
					5279.	-103.5	13:26:42.933	10562	349		18461.	RRCSM	UMTS FDD	Uplink	13:26:41.785	DCCH	MEASUREMENT_REPORT	
					5280.	1715-0115	13:26:42.933	10562	349	-8.5	18462	RRCSM	UMTS FDD	Uplink	13:26:43.035	DCCH	MEASUREMENT_REPORT	
					5281.	-96.4	13:26:43.485	10562	349		18463.	RRCSM	UMTS FDD	Downlink	13:26:43.143	DCCH	RADIO_BEARER_RECONFIGURATION	
					5282.		13:26:43.485	10562	349	4.4	18464.	RRCSM	UMTS FDD	Uplink	13:26:43.324	DCCH	MEASUREMENT_REPORT	
					5283.	-105.2	13:26:43.953	10562	349	- MAR	18465.	RRCSM	UMTS FDD	Uplink	13:26:43.545	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
					5284.		13:26:43.953	10562	349	-9.1	18466.	RRCSM	UMTS FDD	Downlink	13:26:43.743	DCCH	MEASUREMENT_CONTROL	
					5285.	-97.9	13:26:44.584	10562	349	and the second	18467.	RRCSM	UMTS FDD	Uplink	13:26:43.764	DCCH	MEASUREMENT_REPORT	
					5286.		13:26:44.584	10562	349	-5	18468	RRCSM	UMTS FDD	Downlink	13:26:44.183	DCCH	RADIO_BEARER_RECONFIGURATION	
					5287.	-97.9	13:26:45.085	10562	349		18469.	RRCSM	UMTS FDD	Uplink	13:26:44.586	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE	
					5288.	220	13:26:45.085	10562	349	-5	18470.	RRCSM	UMTS FDD	Downlink	13:26:44.783	DCCH	MEASUREMENT_CONTROL	
					5289.	-96.1	13:26:45.635	10562	349		18471.	RRCSM	UMTS FDD	Downlink	13:26:46.783	DCCH	DOWNLINK_DIRECT_TRANSFER	
					5290.	10000	13:26:45.635	10562	349	-6.7	18472.	L3SM	UMTS FDD	Downlink	13:26:46.783	DCCH	DISCONNECT	
					5291.	-92.9	13:26:46.245	10562	349		18473.	RRCSM	UMTS FDD	Uplink	13:26:46.784	DCCH	UPLINK_DIRECT_TRANSFER	
					5292		13:26:46.245	10562	349	-3.5	18474.	L3SM	UMTS FDD	Uplink	13:26:46.784	DCCH	RELEASE	
					5293.	-93.3	13:26:46.833	10562	349	1345-14	18475.	RRCSM	UMTS FDD	Downlink	13:26:47.023	DCCH	DOWNLINK_DIRECT_TRANSFER	
					5294		13:26:46.833	10562	349	-5.9	18476	L3SM	UMTS FDD	Downlink	13:26:47.023	DCCH	RELEASE_COMPLETE	
					5295	-95.1	13:26:47.145	10562	349	ACANCE OF	18477.	RRCSM	UMTS FDD	Downlink	13:26:47.343	DCCH	RADIO_BEARER_RELEASE	
					5296		13:26:47.145	10562	349	-4.5	18478.	RRCSM	UMTS FDD	Uplink	13:26:47.735	DCCH	RADIO_BEARER_RELEASE_COMPLETE	
					5297.	-102.5	13:26:47.841	10562	349		18479.	RRCSM	UMTS FDD	Downlink	13:26:48.862	DCCH	RRC_CONNECTION_RELEASE	
					5298	- COLORD	13:26:47.841	10562	349	-8	18480.	RRCSM	UMTS FDD	Uplink	13:26:48.863	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					5299	-98	13:26:48.395	10562	349	1	18481.	RRCSM	UMTS FDD	Downlink	13:26:48.903	DCCH	RRC_CONNECTION_RELEASE	
					5300.	and the	13:26:48.395	10562	349	-7	18482	RRCSM	UMTS FDD	Uplink	13:26:48.903	DCCH	RRC_CONNECTION_RELEASE_COMPLETE	
					5301.	-100.7	13:26:48.915	10562	349		18483.	RRCSM	UMTS FDD	Downlink	13:26:48.942	DCCH	RRC CONNECTION RELEASE	-

- This call failure event occurred on short call at 13:26:46:784 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 349 and RF condition RSCP -112.2 dBm is poor and Ec/No -11.8 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 4 From MS5 Airtel MO

	Time	System	Serving band		Time	Ricley sub	ARFCN	BSIC	LAC	RAC	RXQ sut 🔺		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	13:05:42.921	GSM	900	931.	15:27:02.027	.94	94	48	50000	4		55373.	L3SM	GSM	Uplink	15:29:20.760	SACCH	MEASUREMENT_REPORT	
2,	13:13:28.823	GSM	900	932.	15:27:02.232							55374,	L35M	GSM	Downlink	15:29:20.838	DCCH	LOCATION_UPDATING_ACCEPT	
3.	13:26:46.784	UMTS FDD	2100	933.	15:29:19.819						6	55375.	L3SM	GSM	Uplink	15:29:20.839	DCCH	CM_SERVICE_REQUEST	
4.	15:29:32.002	GSM	900	934.	15:29:20.206	-93	114	14	50000			55376.	L3SM	GSM	Downlink	15:29:21.148	SACCH	SYSTEM_INFORMATION_TYPE_5	
				935.	15:29:20.289						7	55377.	L3SM	GSM	Uplink	15:29:21.231	SACCH	MEASUREMENT_REPORT	
				936.	15:29:20.760						6	55378.	L3SM	GSM	Downlink	15:29:21.618	SACCH	MEASUREMENT_INFORMATION	
				937.	15:29:20.842	-93	114	14	50000			55379.	L3SM	GSM	Uplink	15:29:21.702	SACCH	MEASUREMENT_REPORT	
				938.	15:29:21.324	-93	114	14	50000			55380.	L3SM	GSM	Downlink	15:29:21.780	DCCH	CM_SERVICE_ACCEPT	
				939.	15:29:21.887	-93	114	14	50000			55381.	L3SM	GSM	Uplink	15:29:21.780	DCCH	SETUP	
				940.	15:29:22,173						7	55382.	L3SM	GSM	Uplink	15:29:22.173	SACCH	MEASUREMENT_REPORT	
				941.	15:29:22.251	-92	114	14	50000			55383.	L3SM	GSM	Uplink	15:29:22.643	SACCH	MEASUREMENT_REPORT	
				942.	15:29:22.643						7	55384.	L3SM	GSM	Uplink	15:29:23.114	SACCH	MEASUREMENT_REPORT	
				943.	15:29:22.813	-95	114	14	50000			55385.	L3SM	GSM	Uplink	15:29:23.585	SACCH	MEASUREMENT_REPORT	
				944.	15:29:23,192	-95	114	14	50000			55386,	L3SM	GSM	Uplink	15:29:24.056	SACCH	MEASUREMENT_REPORT	
				945.	15:29:24.056	-96	114	14	50000			55387.	L3SM	GSM	Uplink	15:29:24.526	SACCH	MEASUREMENT_REPORT	
				946.	15:29:24.887	-95	114	14	50000			55388.	L3SM	GSM	Uplink	15:29:24.997	SACCH	MEASUREMENT_REPORT	
				947.	15:29:25.468	-95	114	14	50000			55389.	L3SM	GSM	Uplink	15:29:25.468	SACCH	MEASUREMENT_REPORT	
				948.	15:29:26.017	-95	114	14	50000			55390.	L3SM	GSM	Uplink	15:29:25.939	SACCH	MEASUREMENT_REPORT	
				949.	15:29:26.488	-96	114	14	50000			55391,	L3SM	GSM	Uplink	15:29:26.409	SACCH	MEASUREMENT_REPORT	
				950.	15:29:26.962	-96	114	14	50000			55392.	L3SM	GSM	Uplink	15:29:26.880	SACCH	MEASUREMENT_REPORT	
				951.	15:29:27.664	-95	114	14	50000			55393.	L3SM	GSM	Uplink	15:29:27.351	SACCH	MEASUREMENT_REPORT	
				952.	15:29:27.900	-96	114	14	50000			55394.	L3SM	GSM	Uplink	15:29:27.822	SACCH	MEASUREMENT_REPORT	
				953,	15:29:28.371	-96	114	14	50000			55395.	L3SM	GSM	Uplink	15:29:28.292	SACCH	MEASUREMENT_REPORT	
				954,	15:29:29.077	-96	114	14	50000			55396.	L3SM	GSM	Uplink	15:29:28.763	SACCH	MEASUREMENT_REPORT	
				955,	15:29:29.484	-96	114	14	50000			55397.	L3SM	GSM	Uplink	15:29:29.234	SACCH	MEASUREMENT_REPORT	
				956.	15:29:30,254	-96	114	14	50000			55398.	L3SM	GSM	Uplink	15:29:29.705	SACCH	MEASUREMENT_REPORT	
				957.	15:29:30.811	-96	114	14	50000			55399.	L3SM	GSM	Uplink	15:29:30.176	SACCH	MEASUREMENT_REPORT	
				958.	15:29:30.811							55400.	L3SM	GSM	Uplink	15:29:30.646	SACCH	MEASUREMENT_REPORT	-
				959.	16:01:43.822	-75	99	31	62000	4	_	55401.	RRCSM	LTE FDD	Downlink	15:29:32.337	BCCH-BCH	MasterInformationBlock	
				960,	16:01:43.822						0	55402.	RRCSM	LTE FDD	Downlink	15:29:32.361	BCCH-SCH	SystemInformationBlockType1	
				961.	16:01:44,400	-76	99	31	50000	4		55403.	RRCSM	LTE FDD	Downlink	15:29:32.361	BCCH-SCH	SystemInformation - SIB2, SIB3	
				962.	16:01:44.889	-74	99	31	50000	4		55404.	L3SM	LTE FDD	Uplink	15:29:32.376		TRACKING_AREA_UPDATE_REQUEST	
				963,	16:01:45,401	-79	99	31	50000	4		55405,	RRCSM	LTE FDD	Uplink	15:29:32.376	CCCH	RRCConnectionRequest	- 5
				964,	16:01:45.401						0	55406.	RRCSM	LTE FDD	Downlink	15:29:32.414	CCCH	RRCConnectionSetup	
				965.	16:01:45.881						0	\$5407.	RRCSM	LTE FDD	Uplink	15:29:32.418	DCCH	RRCConnectionSetupComplete	
				966.	16:01:46.361	.79	99	31	50000	4		55408.	RRCSM	ITE EDD	Downlink	15:29:32.484	DCCH	SecurityModeCommand	

- This call failure event occurred on short call at 15:29:32:002 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 114 and RF condition Rx lev -93 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 1 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 🔺		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	54.	12:52:25.077						2	5275.	L3SM	GSM	Uplink	12:52:26.489	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	55.	12:52:25.118	-92	21	25	1		a de la constante de la consta	5276.	L3SM	GSM	Downlink	12:52:26.840	SACCH	MEASUREMENT_INFORMATION
3.	12:58:27.299	GSM	900	Dro	56.	12:52:25.548						0	5277.	L3SM	GSM	Uplink	12:52:26.960	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	57.	12:52:25.779	-90	21	25	1			5278.	L3SM	GSM	Downlink	12:52:27.311	SACCH	MEASUREMENT_INFORMATION
5.	13:10:06.592	UMTS FDD	2100	Tim	58.	12:52:26.207	-89	21	25	1			5279.	L3SM	GSM	Uplink	12:52:27.431	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	59.	12:52:26.489						0	5280.	L3SM	GSM	Downlink	12:52:27.782	SACCH	SYSTEM_INFORMATION_TYPE_5
7.	13:25:16.471	GSM	900	Dro	60.	12:52:26.490	-91	21	25	1			5281.	L3SM	GSM	Uplink	12:52:27.902	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	61.	12:52:26.960						0	5282.	L3SM	GSM	Downlink	12:52:28.252	SACCH	SYSTEM_INFORMATION_TYPE_STER
9.	13:27:17,882	UMTS FDD	2100	Tim	62.	12:52:27.001	-87	21	25	1			5283.	L3SM	GSM	Uplink	12:52:28.372	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	63.	12:52:27.431						1	5284.	L3SM	GSM	Downlink	12:52:28.723	SACCH	SYSTEM_INFORMATION_TYPE_6
11,	13:32:03.874	GSM	900	Call	64.	12:52:27.902	-92	21	25	1			5285.	L3SM	GSM	Uplink	12:52:28.843	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	65.	12:52:27.902						0	5286.	L3SM	GSM	Downlink	12:52:29.194	SACCH	MEASUREMENT_INFORMATION
13.	13:34:46.885	GSM	900	Dro	66.	12:52:28.372						0	5287.	L3SM	GSM	Uplink	12:52:29.314	SACCH	MEASUREMENT_REPORT
14.	13:35:35.563	GSM	900	Dro	67.	12:52:28.414	-93	21	25	1			5288.	L3SM	GSM	Downlink	12:52:29.665	SACCH	MEASUREMENT_INFORMATION
15,	13:36:20,556	GSM	900	Dro	68,	12:52:28.843						0	5289.	L3SM	GSM	Uplink	12:52:29.785	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	69.	12:52:28.854	-93	21	25	1			5290.	L3SM	GSM	Downlink	12:52:30.136	SACCH	MEASUREMENT_INFORMATION
17.	13:53:46.824	UMTS FDD	2100	Dro	70.	12:52:29.314						0	5291.	L3SM	GSM	Uplink	12:52:30.255	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	71.	12:52:29.355	-89	21	25	1			5292.	L3SM	GSM	Downlink	12:52:30.606	SACCH	MEASUREMENT_INFORMATION
19.	14:01:17.787	UMTS FDD	2100	Call	72.	12:52:29.785						0	5293.	L3SM	GSM	Uplink	12:52:30.726	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	73.	12:52:29.855	-91	21	25	1			5294.	L3SM	GSM	Downlink	12:52:31.003	DCCH	ASSIGNMENT_COMMAND
					74.	12:52:30.255						0	5295.	L3SM	GSM	Uplink	12:52:31.063	DCCH	ASSIGNMENT_COMPLETE
					75,	12:52:30.297	-86	21	25	1			5296.	L3SM	GSM	Uplink	12:52:31.282	SACCH	MEASUREMENT_REPORT
					76.	12:52:30.851	-88	21	25	1			5297,	L3SM	GSM	Downlink	12:52:31.407	DCCH	DISCONNECT
					77.	12:52:31.282		and the				7	5298.	L3SM	GSM	Downlink	12:52:31.716	SACCH	SYSTEM_INFORMATION_TYPE_5
					78.	12:52:31.716			Q——			7	5299.	L3SM	GSM	Uplink	12:52:31.730	DCCH	RELEASE
					79,	12:52:31.762						0	5300,	L3SM	GSM	Uplink	12:52:31.762	SACCH	MEASUREMENT_REPORT
					80.	12:52:31.777	-82	25	25	1			5301.	L3SM	GSM	Downlink	12:52:31.868	DCCH	RELEASE_COMPLETE
					81.	12:52:32.261							5302.	L3SM	GSM	Downlink	12:52:31.988	DCCH	CHANNEL_RELEASE
					82.	12:53:06.034						7	5303.	RRCSM	LTE FDD	Downlink	12:52:32.234	BCCH-BCH	MasterinformationBlock
					83.	12:53:06.504						0	5304.	RRCSM	LTE FDD	Downlink	12:52:32.257	BCCH-SCH	SystemInformationBlockType1
					84.	12:53:06.975	-95	21	25	1			5305.	RRCSM	LTE FDD	Downlink	12:52:32.257	BCCH-SCH	SystemInformation - SIB2, SIB3
					85.	12:53:06.975						0	5306.	RRCSM	LTE FDD	Downlink	12:52:32.257	BCCH-SCH	SystemInformation - SIB5
					86,	12:53:07.446						0	5307.	L3SM	LTE FDD	Uplink	12:52:32.273		TRACKING_AREA_UPDATE_REQUEST
					87.	12:53:07.917	-86	21	25	1			5308,	RRCSM	LTE FDD	Uplink	12:52:32.273	CCCH	RRCConnectionRequest
					88.	12:53:07.917						5	5309.	RRCSM	LTE FDD	Downlink	12:52:32.308	CCCH	RRCConnectionSetup
					89.	12:53:08.388						0	5310.	RRCSM	LTE FDD	Uplink	12:52:32.313	DCCH	RRCConnectionSetupComplete

- This call failure event occurred on short call at 12:52:31:730 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 21 and RF condition Rx lev -88 dBm is good and Rx qual 7 dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-2 Call Attempt Failure Analysis 2 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 4		Event II) System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	232.	12:57:31.551						4	626	7. L3SM	GSM	Uplink	12:57:32.021	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	233.	12:57:31.788	-96	21	25	1			626	B. L3SM	GSM	Downlink	12:57:32.372	SACCH	MEASUREMENT_INFORMATION
3.	12:58:27.299	GSM	900	Dro	234.	12:57:32.021						2 -	J 626	9. L3SM	GSM	Uplink	12:57:32.492	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	235.	12:57:32.063	-97	21	25	1			627	D. L3SM	GSM	Downlink	12:57:32.843	SACCH	MEASUREMENT_INFORMATION
5.	13:10:06.592	UMTS FDD	2100	Tim	236.	12:57:32.492						2	627	1. L3SM	GSM	Uplink	12:57:32.963	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	237.	12:57:32.858	-95	21	25	1			627	2. L3SM	GSM	Uplink	12:57:33.434	SACCH	MEASUREMENT_REPORT
7.	13:25:16.471	GSM	900	Dro	238.	12:57:32.963						3	627	3. L3SM	GSM	Uplink	12:57:33.905	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	239.	12:57:33.044	-98	21	25	1			627	4. L3SM	GSM	Downlink	12:57:34,255	SACCH	SYSTEM_INFORMATION_TYPE_STER
9.	13:27:17.882	UMTS FDD	2100	Tim	240.	12:57:33.434						7	627	5. L3SM	GSM	Uplink	12:57:34.375	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	241.	12:57:33.905	-99	21	25	1			627	5. L3SM	GSM	Downlink	12:57:34.726	SACCH	SYSTEM_INFORMATION_TYPE_6
11,	13:32:03.874	GSM	900	Call	242.	12:57:34.375						5	627	7. L3SM	GSM	Uplink	12:57:34.846	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	243.	12:57:34.846						4	627	B. L3SM	GSM	Downlink	12:57:35.197	SACCH	MEASUREMENT_INFORMATION
13.	13:34:46.885	GSM	900	Dro	244.	12:57:34.857	-97	21	25	1			627	9. L3SM	GSM	Uplink	12:57:35.317	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	245.	12:57:35.317						4	628	D. L3SM	GSM	Uplink	12:57:35.788	SACCH	MEASUREMENT_REPORT
15,	13:36:20,556	GSM	900	Dro	246,	12:57:35.358	-98	21	25	1			628	1. L3SM	GSM	Downlink	12:57:36.138	SACCH	MEASUREMENT_INFORMATION
16.	13:45:39.006	UMTS FDD	2100	Dro	247.	12:57:35.788						7	628	2. L3SM	GSM	Uplink	12:57:36.258	SACCH	MEASUREMENT_REPORT
17.	13:53:46.824	UMTS FDD	2100	Dro	248.	12:57:35.856	-97	21	25	1			628	3. L3SM	GSM	Downlink	12:57:36.609	SACCH	MEASUREMENT_INFORMATION
18.	13:56:25.860	GSM	900	Nor	249.	12:57:36.258						5	628	4. L3SM	GSM	Uplink	12:57:36.729	SACCH	MEASUREMENT_REPORT
19.	14:01:17.787	UMTS FDD	2100	Call	250.	12:57:36.300	-97	21	25	1			628	5. L3SM	GSM	Downlink	12:57:37.080	SACCH	MEASUREMENT_INFORMATION
20.	16:05:02.449	UMTS FDD	2100	Call	251.	12:57:36.729						6	628	5. L3SM	GSM	Uplink	12:57:37.200	SACCH	MEASUREMENT_REPORT
					252.	12:57:37.006	-98	21	25	1			628	7. L3SM	GSM	Downlink	12:57:37.241	DCCH	ASSIGNMENT_COMMAND
					253.	12:57:37.200						5	628	B. L3SM	GSM	Uplink	12:57:37,255	DCCH	ASSIGNMENT_COMPLETE
					254.	12:57:37.585						7	628	9. L3SM	GSM	Uplink	12:57:37.585	SACCH	MEASUREMENT_REPORT
					255.	12:57:37.710	-98	25	25	1			629	D. L3SM	GSM	Downlink	12:57:37.590	DCCH	DISCONNECT
				1	256.	12:57:37.710					1	7	629	I. L3SM	GSM	Uplink	12:57:37.778	DCCH	RELEASE
					257.	12:57:38.107	-98	25	25	1			629	2. L3SM	GSM	Downlink	12:57:37.913	DCCH	RELEASE_COMPLETE
					258.	12:57:38.107							629	3. L3SM	GSM	Downlink	12:57:38.019	SACCH	SYSTEM_INFORMATION_TYPE_5
					259.	12:58:12.507						7	629	4. L3SM	GSM	Downlink	12:57:38,033	DCCH	CHANNEL_RELEASE
					260.	12:58:12.856	-96	21	25	1			629	5. RRCSM	LTE FDD	Downlink	12:57:38.566	BCCH-BCH	MasterinformationBlock
					261.	12:58:12.978						0	629	5. RRCSM	LTE FDD	Downlink	12:57:38,600	BCCH-SCH	SystemInformationBlockType1
					262.	12:58:13.449	-96	21	25	1			629	7. RRCSM	LTE FDD	Downlink	12:57:38.600	BCCH-SCH	SystemInformation - SIB2, SIB3
					263.	12:58:13.449						5	629	B. RRCSM	LTE FDD	Downlink	12:57:38.600	BCCH-SCH	SystemInformation - SIB5
					264.	12:58:13.920						0	629	9. LBSM	LTE FDD	Uplink	12:57:38.616		TRACKING_AREA_UPDATE_REQUEST
					265.	12:58:14.391	-96	21	25	1			630	D. RRCSM	LTE FDD	Uplink	12:57:38.617	CCCH	RRCConnectionRequest
					266.	12:58:14.391						7	630	1. RRCSM	LTE FDD	Downlink	12:57:38.651	CCCH	RRCConnectionSetup
					267.	12:58:14.861						3	630	2. RRCSM	LTE FDD	Uplink	12:57:38.656	DCCH	RRCConnectionSetupComplete

- This call failure event occurred on short call at 12:57:37:864 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 25 and RF condition Rx lev -98 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 3 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 🔺		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	286.	12:58:20.040						2	6422.	L3SM	GSM	Uplink	12:58:20.981	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	287.	12:58:20.174	-95	21	25	1			6423.	L3SM	GSM	Downlink	12:58:21.115	SACCH	SYSTEM_INFORMATION_TYPE_6
3.	12:58:27.299	GSM	900	Dro	288.	12:58:20.511						2	6424.	L3SM	GSM	Uplink	12:58:21.452	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	289.	12:58:20.854	-94	21	25	1			6425.	L3SM	GSM	Uplink	12:58:21.923	SACCH	MEASUREMENT_REPORT
5.	13:10:06.592	UMTS FDD	2100	Tim	290.	12:58:20.981	-97	21	25	1			6426.	L3SM	GSM	Downlink	12:58:22.057	SACCH	MEASUREMENT_INFORMATION
6,	13:19:26.229	GSM	900	Call	291.	12:58:20.981						4	6427.	L3SM	GSM	Uplink	12:58:22.394	SACCH	MEASUREMENT_REPORT
7.	13:25:16.471	GSM	900	Dro	292.	12:58:21.452						0	6428.	L3SM	GSM	Downlink	12:58:22.527	SACCH	MEASUREMENT_INFORMATION
8.	13:26:17.099	GSM	900	Tim	293.	12:58:21.923	-98	21	25	1			6429.	L3SM	GSM	Uplink	12:58:22.864	SACCH	MEASUREMENT_REPORT
9.	13:27:17,882	UMTS FDD	2100	Tim	294.	12:58:21.923						7	6430.	L3SM	GSM	Uplink	12:58:23.335	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	295.	12:58:22.394						0	6431.	L3SM	GSM	Downlink	12:58:23.469	SACCH	MEASUREMENT_INFORMATION
11,	13:32:03.874	GSM	900	Call	296.	12:58:22.864	-94	21	25	1			6432.	L3SM	GSM	Uplink	12:58:23.806	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	297.	12:58:22.864						0	6433.	L3SM	GSM	Downlink	12:58:23.940	SACCH	SYSTEM_INFORMATION_TYPE_5
13.	13:34:46.885	GSM	900	Dro	298.	12:58:23.335						7	6434.	L3SM	GSM	Uplink	12:58:24.277	SACCH	MEASUREMENT_REPORT
14.	13:35:35.563	GSM	900	Dro	299.	12:58:23.806						0	6435.	L3SM	GSM	Downlink	12:58:24.410	SACCH	SYSTEM_INFORMATION_TYPE_STER
15,	13:36:20.556	GSM	900	Dro	300.	12:58:23,940	-95	21	25	1			6436.	L3SM	GSM	Uplink	12:58:24.747	SACCH	MEASUREMENT_REPORT
16,	13:45:39.006	UMTS FDD	2100	Dro	301.	12:58:24.277						0	6437,	L3SM	GSM	Downlink	12:58:24.881	SACCH	SYSTEM_INFORMATION_TYPE_6
17.	13:53:46.824	UMTS FDD	2100	Dro	302.	12:58:24.410	-92	21	25	1			6438.	L3SM	GSM	Uplink	12:58:25,218	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	303.	12:58:24.747						Ó	6439.	L3SM	GSM	Downlink	12:58:25.352	SACCH	MEASUREMENT_INFORMATION
19.	14:01:17.787	UMTS FDD	2100	Call	304.	12:58:24.969	-95	21	25	1			6440.	L3SM	GSM	Uplink	12:58:25.689	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	305.	12:58:25.218						0	6441.	L3SM	GSM	Downlink	12:58:25.823	SACCH	MEASUREMENT_INFORMATION
					306.	12:58:25.352	-93	21	25	1			6442.	L3SM	GSM	Uplink	12:58:26.160	SACCH	MEASUREMENT_REPORT
					307.	12:58:25.910	-91	21	25	1			6443,	L3SM	GSM	Downlink	12:58:26.294	SACCH	MEASUREMENT_INFORMATION
					308.	12:58:26.160	-94	21	25	1			6444.	L3SM	GSM	Downlink	12:58:26.616	DCCH	ASSIGNMENT_COMMAND
					309.	12:58:26.160						0	6445.	L3SM	GSM	Uplink	12:58:26.631	SACCH	MEASUREMENT_REPORT
				1	310.	12:58:26.631						0	6446.	L3SM	GSM	Uplink	12:58:26.677	DCCH	ASSIGNMENT_COMPLETE
					311,	12:58:27.025						7	6447.	L3SM	GSM	Uplink	12:58:27.025	SACCH	MEASUREMENT_REPORT
					312.	12:58:27.074	-93	25	25	1			6448.	L3SM	GSM	Downlink	12:58:27.071	DCCH	DISCONNECT
					313.	12:58:27.074						1	6449.	L3SM	GSM	Uplink	12:58:27,299	DCCH	RELEASE
					314.	12:58:27.505						4	6450.	L3SM	GSM	Downlink	12:58:27.431	DCCH	RELEASE_COMPLETE
					315,	12:58:27.870	-96	25	25	1			6451,	L3SM	GSM	Downlink	12:58:27.459	SACCH	SYSTEM_INFORMATION_TYPE_5
					316.	12:58:27.870							6452.	L3SM	GSM	Uplink	12:58:27.505	SACCH	MEASUREMENT_REPORT
					317.	12:59:00.526						0	6453.	L3SM	GSM	Downlink	12:58:27.551	DCCH	CHANNEL_RELEASE
					318,	12:59:00.855	-93	21	25	1			6454.	RRCSM	LTE FDD	Downlink	12:58:27,886	BCCH-BCH	MasterInformationBlock
					319.	12:59:00.996						0	6455.	RRCSM	LTE FDD	Downlink	12:58:27.920	BCCH-SCH	SystemInformationBlockType1
					320.	12:59:01.467						4	6456.	RRCSM	LTE FDD	Downlink	12:58:27.920	BCCH-SCH	SystemInformation - SIB2, SIB3
					321.	12:59:01.938	-94	21	25	1			6457.	RRCSM	LTE FDD	Downlink	12:58:27.920	BCCH-SCH	SystemInformation - SIB5

- This call failure event occurred on short call at 12:58:27:299 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 25 and RF condition Rx lev -93 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 4 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best	-		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	2634.	and the second second	13:05:01.851	10690	145	-20.6	-	7960.	RRCSM	UMTS FDD	Downlink	13:04:58.396	CCCH	RRC_CONNECTION_SETUP
2	12:57:37.864	GSM	900	Dro	2635.	-125.3	13:05:02.096	10690	145			7961.	RRCSM	UMTS FDD	Uplink	13:04:58.451	DCCH	RRC_CONNECTION_SETUP_COMPLETE
3.	12:58:27.299	GSM	900	Dro	2636.	Columbol:	13:05:02.096	10690	145	-24.9		7962.	RRCSM	UMTS FDD	Uplink	13:04:58.451	DCCH	INITIAL_DIRECT_TRANSFER
4.	13:05:08.352	UMITS FDD	2100	Cal	2637,	-123.6	13:05:02.895	10690	145			7963.	L3SM	UMTS FDD	Uplink	13:04:58.451	DCCH	CM_SERVICE_REQUEST
5.	13:10:06.592	UMTS FDD	2100	Tim	2638.		13:05:02.895	10690	145	-22.8		7964.	RRCSM	UMTS FDD	Uplink	13:04:58.451	DCCH	INITIAL_DIRECT_TRANSFER
6.	13:19:26.229	GSM	900	Call	2639.	-126.4	13:05:03.397	10690	145			7965.	L3SM	UMTS FDD	Uplink	13:04:58.451	DCCH	ROUTING_AREA_UPDATE_REQUEST
7.	13:25:16:471	GSM	900	Dro	2640.		13:05:03.397	10690	145	-25.6	1	7966.	RRCSM	UMTS FDD	Downlink	13:04:58.754	DCCH	MEASUREMENT_CONTROL
8.	13:26:17.099	GSM	900	Tim	2641.	-123.6	13:05:03.917	10690	145			7967.	RRCSM	UMTS FDD	Downlink	13:04:58.774	DCCH	SECURITY_MODE_COMMAND
9.	13:27:17.882	UMTS FDD	2100	Tim	2642.		13:05:03.917	10690	145	-22.8		7968.	RRCSM	UMTS FDD	Uplink	13:04:58.774	DCCH	SECURITY_MODE_COMPLETE
10.	13:28:12.991	UMTS FDD	2100	Dro	2643.	-126.3	13:05:04.403	10690	145	100,000		7969.	RRCSM	UMTS FDD	Uplink	13:04:59.095	DCCH	UPLINK_DIRECT_TRANSFER
11.	13:32:03.874	GSM	900	Call	2644,		13:05:04.403	10690	145	-25.4		7970.	L3SM	UMTS FDD	Uplink	13:04:59.095	DCCH	SETUP
12.	13:33:04.222	GSM	900	Tim	2645.	-126.6	13:05:04.895	10690	145			7971.	RRCSM	UMTS FDD	Downlink	13:04:59.104	DCCH	DOWNLINK_DIRECT_TRANSFER
13.	13:34:46.885	GSM	900	Dro	2646.		13:05:04.895	10690	145	-25.6		7972.	L3SM	UMTS FDD	Downlink	13:04:59.104	DCCH	TMSI_REALLOCATION_COMMAND
14.	13:35:35.563	GSM	900	Dro	2647.	-126.1	13:05:05.396	10690	145			7973.	RRCSM	UMTS FDD	Uplink	13:04:59.105	DCCH	UPLINK_DIRECT_TRANSFER
15.	13:36:20.556	GSM	900	Dro	2648.		13:05:05.396	10690	145	-25.1		7974.	L3SM	UMTS FDD	Uplink	13:04:59.105	DCCH	TMSI_REALLOCATION_COMPLETE
16.	13:45:39.006	UMTS FDD	2100	Dro	2649.	-126.1	13:05:05.895	10690	145			7975.	RRCSM	UMTS FDD	Downlink	13:04:59.244	DCCH	DOWNLINK_DIRECT_TRANSFER
17.	13:53:46.824	UMTS FDD	2100	Dro	2650.		13:05:05.895	10690	145	-25.2		7976.	L3SM	UMTS FDD	Downlink	13:04:59.244	DCCH	CALL_PROCEEDING
18.	13:56:25,860	GSM	900	Nor	2651.	-123.1	13:05:06.396	10690	145			7977.	RRCSM	UMTS FDD	Uplink	13:05:01.077	DCCH	MEASUREMENT_REPORT
19.	14:01:17.787	UMTS FDD	2100	Call	2652.	10.00 C	13:05:06.396	10690	145	-22.2		7978.	RRCSM	UMTS FDD	Downlink	13:05:07.963	BCCH_BCH	SYSTEM_INFORMATION_BCH
20.	16:05:02.449	UMTS FDD	2100	Call	2653.	-125.1	13:05:06.916	10690	145			7979.	RRCSM	UMTS FDD	Downlink	13:05:07.963	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
				1140	2654.	and the second	13:05:06.916	10690	145	-24.1		7980.	RRCSM	UMTS FDD	Downlink	13:05:07.963	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					2655.	-125.4	13:05:07.503	10690	145			7981,	RRCSM	UMTS FDD	Downlink	13:05:07.983	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2656.		13:05:07.503	10690	145	-23.9		7982.	RRCSM	UMTS FDD	Downlink	13:05:08.003	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2657,	-125.4	13:05:08.352	10690	145	í	: 3	7983.	RRCSM	UMTS FDD	Downlink	13:05:08.023	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2658.		13:05:08.352	10690	145	-23.9		7984.	RRCSM	UMTS FDD	Downlink	13:05:08.023	8CCH	MASTER_INFORMATION_BLOCK
					2659.	-125.4	13:05:08.545	10690	145			7985,	RRCSM	UMTS FDD	Downlink	13:05:08,439	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2660.	and the second se	13:05:08.545	10690	145	-23.9		7986.	RRCSM	UMTS FDD	Downlink	13:05:08.439	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2661,	-125.4	13:05:09.011	10690	145			7987.	RRCSM	UMTS FDD	Downlink	13:05:08.439	BCCH	MASTER_INFORMATION_BLOCK
					2662.		13:05:09.011	10690	145	-23.9		7988,	RRCSM	UMTS FDD	Downlink	13:05:08.523	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2663.	-119.7	13:05:18.150	10690	145			7989.	RRCSM	UMTS FDD	Downlink	13:05:08.543	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2664.		13:05:18.150	10690	145	-19.3		7990.	RRCSM	UMTS FDD	Downlink	13:05:08.563	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2665.	-125.8	13:05:18.355	10690	145		81	7991.	RRCSM	UMTS FDD	Downlink	13:05:08.563	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					2666.		13:05:18.355	10690	145	-24.9		7992.	RRCSM	UMTS FDD	Downlink	13:05:08.583	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2667.	-137.7	13:05:19.134	10690	145			7993.	RRCSM	UMTS FDD	Downlink	13:05:08.583	BCCH	MASTER_INFORMATION_BLOCK
				į	2668.		13:05:19.134	10690	145	-16.2		7994.	RRCSM	UMTS FDD	Downlink	13:05:08.723	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2669.	-122.1	13:05:19.634	10690	145			7995.	RRCSM	UMTS FDD	Downlink	13:05:08.743	BCCH_BCH	SYSTEM_INFORMATION_BCH
					2670.		13:05:19.634	10690	145	-21.7	*	7996.	RRCSM	UMTS FDD	Downlink	13:05:08.743	BCCH	MASTER_INFORMATION_BLOCK
6				+	4							7997.	RRCSM	UMTS FDD	Downlink	13:05:09.003	BCCH BCH	SYSTEM INFORMATION BCH

- This call failure event occurred on short call at 13:05:08:352 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 145 and RF condition RSCP -125.4 dBm and Ec/No -23.9 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 5 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best -	1	Event	ID System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	2814.	a wine with the providence	13:10:01.033	10690	147	-18.3	90	61. RRCSI	UMTS FDE) Uplink	13:09:57.279	DCCH	UPLINK_DIRECT_TRANSFER
2	12:57:37.864	GSM	900	Dro	2815.	-122.5	13:10:01.473	10715	147		90	62. L3SM	UMTS FDD	Uplink	13:09:57.279	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
3.	12:58:27.299	GSM	900	Dro	2816.	1.00000	13:10:01.473	10690	147	-22.4	90	63. RRCS	UMTS FDD	Downlink	13:09:57.811	DCCH	SECURITY_MODE_COMMAND
4.	13:05:08.352	UMTS FDD	2100	Call	2817,	-123	13:10:01.993	10690	147		90	64. RRCSI	UMTS FDD) Uplink	13:09:57.811	DCCH	SECURITY_MODE_COMPLETE
5.	13:10:06.592	UMTS FDD	2100	Tim	2818.		13:10:01.993	10715	147	-20.5	90	65. RRCS	UMTS FDD	Downlink	13:09:58.311	DCCH	DOWNLINK_DIRECT_TRANSFER
6.	13:19:26.229	GSM	900	Call	2819.	-116.6	13:10:02.402	10715	147		90	66. L3SM	UMTS FDL	Downlink	13:09:58.311	DCCH	ROUTING_AREA_UPDATE_ACCEPT
7.	13:25:16.471	GSM	900	Dro	2820.		13:10:02.402	10715	147	-17.2	90	67. RRCS	UMITS FDE	Uplink	13:09:58.313	DCCH	UPLINK_DIRECT_TRANSFER
8.	13:26:17.099	GSM	900	Tim	2821.	-118.3	13:10:02.972	10690	147		90	68. L35M	UMTS FDD) Uplink	13:09:58.313	DCCH	ROUTING_AREA_UPDATE_COMPLETE
9.	13:27:17.882	UMTS FDD	2100	Tim	2822.	2015/2016	13:10:02.972	10690	147	-17.5	90	69, RRCSI	I UMTS FDD	0 Uplink	13:09:58.315	DCCH	UPLINK_DIRECT_TRANSFER
10.	13:28:12.991	UMTS FDD	2100	Dro	2823.	-118.3	13:10:03.352	10590	147	Course :	90	70. L3SM	UMTS FDD) Uplink	13:09:58.315	DCCH	SERVICE_REQUEST
11.	13:32:03.874	GSM	900	Call	2824.		13:10:03.352	10690	147	-17.5	90	71. RRCS	UMTS FDD	Downlink	13:09:58.420	DCCH	DOWNLINK_DIRECT_TRANSFER
12.	13:33:04.222	GSM	900	Tim	2825.	-118.3	13:10:03.973	10690	147		90	72. L3SM	UMTS FDD	Downlink	13:09:58.420	DCCH	SERVICE_ACCEPT
13.	13:34:46.885	GSM	900	Dro	2826.		13:10:03.973	10690	147	-17.5	90	73. RRCS	UMTS FDD	0 Downlink	13:09:58.601	DCCH	RADIO_BEARER_SETUP
14.	13:35:35.563	GSM	900	Dro	2827.	-118.3	13:10:04.532	10690	147		90	74. RRCSI	UMTS FDD) Uplink	13:09:58.889	DCCH	RADIO_BEARER_SETUP_COMPLETE
15.	13:36:20.556	GSM	900	Dro	2828.		13:10:04.532	10590	147	-17.5	90	75. RRCSI	UMITS FDD	Downlink	13:10:00.310	DCCH	MEASUREMENT_CONTROL
16.	13:45:39.006	UMTS FDD	2100	Dro	2829.	-118.3	13:10:04.892	10690	147		90	76. RRCSI	UMTS FDD	Downlink	13:10:00.590	DCCH	DOWNLINK_DIRECT_TRANSFER
17.	13:53:46.824	UMTS FDD	2100	Dro	2830.		13:10:04.892	10690	147	-17.5	90	77. L3SM	UMITS FDD	Downlink	13:10:00.590	DCCH	MODIFY_PDP_CONTEXT_REQUEST
18.	13:56:25.860	GSM	900	Nor	2831.	-118.3	13:10:05.532	10690	147		90	78. RRCSI	UMTS FDD) Uplink	13:10:00.592	DCCH	UPLINK_DIRECT_TRANSFER
19.	14:01:17.787	UMTS FDD	2100	Call	2832.	00100	13:10:05.532	10690	147	-17.5	90	79. L3SM	UMTS FDD) Uplink	13:10:00.592	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
20.	16:05:02.449	UMTS FDD	2100	Call	2833.	-118.3	13:10:05.972	10690	147		90	80. RRCSI	UMTS FDE	0 Uplink	13:10:00.643	DCCH	MEASUREMENT_REPORT
					2834.	CARANTE CONTRACTOR	13:10:05.972	10690	147	-17.5	90	81. RRCS	UMTS FDD	Downlink	13:10:01.070	DCCH	MEASUREMENT_CONTROL
					2835.	-124.4	13:10:06.592	10715	147		90	82. RRCSI	UMTS FDD	Downlink	13:10:01.110	DCCH	MEASUREMENT_CONTROL
					2836.		13:10:06.592	10715	147	-20.6	90	83. RRCS	I UMTS FDI	Downlink	13:10:01.150	DCCH	MEASUREMENT_CONTROL
					2837,	-119.1	13:10:07.197	10715	147		90	84. RRCSI	UMTS FDD	Downlink	13:10:01.190	DCCH	MEASUREMENT_CONTROL
					2838.		13:10:07.197	10715	147	-19.7	90	85. RRCSI	UMTS FDD	Downlink	13:10:01.191	DCCH	MEASUREMENT_CONTROL
					2839.	-119,4	13:10:07.857	10715	147		90	86. RRCSI	UMTS FDD) Uplink	13:10:01.403	DCCH	MEASUREMENT_REPORT
					2840.		13:10:07.857	10715	147	-16.5	90	87. RRCS	UMTS FDD	Downlink	13:10:01.670	DCCH	RADIO_BEARER_RECONFIGURATION
					2841,	-123.7	13:10:08.132	10715	147		90	88. RRCSI	UMTS FDI) Uplink	13:10:01.842	DCCH	MEASUREMENT_REPORT
					2842.		13:10:08.132	10715	147	-20,9	90	89. RRCSI	I UMTS FDD) Uplink	13:10:02,404	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					2843.	-124.2	13:10:08.822	10715	147		90	90. RRCSI	UMTS FDE	0 Uplink	13:10:03.032	DCCH	MEASUREMENT_REPORT
					2844.		13:10:08.822	10715	147	-22	90	91. RRCS	UMITS FDD) Uplink	13:10:04.112	DCCH	MEASUREMENT_REPORT
					2845.	-126/9	13:10:09.005	10715	147		90	92. RRCSI	UMTS FDE	0 Uplink	13:10:05.032	DCCH	MEASUREMENT_REPORT
					2846.	-122.1	13:10:09.843	10715	147		90	93. RRCS	UMTS FDD) Uplink	13:10:06.925	DCCH	UPLINK_DIRECT_TRANSFER
					2847.		13:10:09.843	10715	147	-23.1	90	94. L3SM	UMTS FDL) Uplink	13:10:06.925	DCCH	DISCONNECT
				i	2848.	-125.6	13:10:10.341	10715	147		90	95. RRCS	UMTS FDD	Uplink	13:10:07.012	DCCH	MEASUREMENT_REPORT
					2849.	-120.4	13:10:10.841	10715	147		90	96. RRCSI	UMTS FDD) Uplink	13:10:07.032	DCCH	MEASUREMENT_REPORT
				ļ	2850.		13:10:10.841	10715	147	-21.4 -	90	97. RRCS	UMTS FDD	Downlink	13:10:07.190	DCCH	DOWNLINK_DIRECT_TRANSFER
				F	1					+	90	98. L3SM	UMTS FDD	Downlink	13:10:07.190	DCCH	RELEASE

- This call failure event occurred on short call at 13:10:06:592 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 147 and RF condition RSCP -124.4 dBm and Ec/No -20.6 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 6 From MS7 CWS MO

	Time	System	Serving band		_	Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ SU		-	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	1282.	13:19:15.861				1	0			12258.	L3SM	GSM	Downlink	13:19:20.039	DCCH	CLASSMARK_ENQUIRY
2,	12:57:37.864	GSM	900	Dro	1283.	13:19:16.407				1	0			12259.	L3SM	GSM	Uplink	13:19:20.039	DCCH	CLASSMARK_CHANGE
3.	12:58:27.299	GSM	900	Dro	1284.	13:19:16.858				1	0			12260.	L3SM	GSM	Uplink	13:19:20.039	DCCH	UTRAN_CLASSMARK_CHANGE
4.	13:05:08,352	UMTS FDD	2100	Call	1285,	13:19:19.998						4		12261,	L3SM	GSM	Downlink	13:19:20.274	DCCH	CIPHERING_MODE_COMMAND
5.	13:10:06.592	UMTS FDD	2100	Tim	1286,	13:19:20.039	-97	20	27	1	0			12262,	L3SM	GSM	Uplink	13:19:20.279	DCCH	CIPHERING_MODE_COMPLETE
6,	13:19:26.229	GSM	900	Call	1287.	13:19:20.468	-97	20	27	1	0			12263.	L3SM	GSM	Uplink	13:19:20.279	DCCH	SETUP
7.	13:25:16.471	GSM	900	Dro	1288.	13:19:20.468						7		12264.	L3SM	GSM	Uplink	13:19:20.468	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	1289,	13:19:21.112	-97	20	27	1	0			12265.	L3SM	GSM	Uplink	13:19:20.939	SACCH	MEASUREMENT_REPORT
9.	13:27:17,882	UMTS FDD	2100	Tim	1290.	13:19:21.410						5		12266.	L3SM	GSM	Downlink	13:19:21.290	SACCH	MEASUREMENT_INFORMATION
10.	13:28:12.991	UMTS FDD	2100	Dro	1291.	13:19:21.451	-98	20	27	1	0			12267.	L3SM	GSM	Uplink	13:19:21.410	SACCH	MEASUREMENT_REPORT
11,	13:32:03.874	GSM	900	Call	1292.	13:19:21.880						7		12268.	L3SM	GSM	Uplink	13:19:21.880	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	1293.	13:19:22.059	-98	20	27	1	0			12269.	L3SM	GSM	Uplink	13:19:22.351	SACCH	MEASUREMENT_REPORT
13.	13:34:46.885	GSM	900	Dro	1294.	13:19:22.351						7	-	12270.	L3SM	GSM	Uplink	13:19:22,822	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	1295.	13:19:22.860	-98	20	27	1	0			12271.	L3SM	GSM	Downlink	13:19:23.173	SACCH	SYSTEM_INFORMATION_TYPE_5
15,	13:36:20.556	GSM	900	Dro	1296.	13:19:23.293						6		12272,	L3SM	GSM	Uplink	13:19:23,293	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	1297.	13:19:23.764						5		12273.	L3SM	GSM	Downlink	13:19:23.644	SACCH	SYSTEM_INFORMATION_TYPE_STER
17.	13:53:46.824	UMTS FDD	2100	Dro	1298,	13:19:24,136	-95	20	27	1	0			12274.	L3SM	GSM	Uplink	13:19:23.764	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	1299.	13:19:24.234						6		12275.	L3SM	GSM	Downlink	13:19:24.114	SACCH	SYSTEM_INFORMATION_TYPE_6
19.	14:01:17.787	UMTS FDD	2100	Call	1300.	13:19:24.276	-97	20	27	1	0			12276.	L3SM	GSM	Uplink	13:19:24.234	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	1301.	13:19:24.705						7		12277.	L3SM	GSM	Uplink	13:19:24.705	SACCH	MEASUREMENT_REPORT
					1302.	13:19:25.176						7		12278.	L3SM	GSM	Uplink	13:19:25.176	SACCH	MEASUREMENT_REPORT
					1303,	13:19:25.218	-96	20	27	1	0			12279.	L3SM	GSM	Downlink	13:19:25.217	DCCH	CHANNEL_RELEASE
					1304.	13:19:25.218								12280,	L3SM	GSM	Downlink	13:19:25.872	CCCH	IMMEDIATE_ASSIGNMENT
					1305.	13:19:25.923	-96	20	27	1	0			12281.	L3SM	GSM	Downlink	13:19:25.918	CCCH	PAGING_REQUEST_TYPE_1
					1306.	13:19:26.229	-96	20	27	1	0			12282.	MACSM	GSM	Uplink	13:19:25.923	PACCH	PACKET_RESOURCE_REQUEST
					1307,	13:19:26.861	-96	20	27	1	0			12283.	L3SM	GSM	Downlink	13:19:27.501	BCCH	SYSTEM_INFORMATION_TYPE_1
					1308.	13:19:27.377	-96	20	27	1	0			12284.	L3SM	GSM	Downlink	13:19:27.704	CCCH	PAGING_REQUEST_TYPE_1
					1309.	13:19:29.352				1	0			12285,	L3SM	GSM	Downlink	13:19:27.783	CCCH	PAGING_REQUEST_TYPE_2
					1310.	13:19:31.860				1	0			12286.	L3SM	GSM	Downlink	13:19:28.272	CCCH	PAGING_REQUEST_TYPE_1
					1311.	13:19:32.058				1	0			12287.	L3SM	GSM	Downlink	13:19:28.364	CCCH	PAGING_REQUEST_TYPE_1
					1312.	13:19:32.860				1	0			12288.	L3SM	GSM	Downlink	13:19:28.627	CCCH	IMMEDIATE_ASSIGNMENT
					1313.	13:19:33.858				1	0			12289.	L3SM	GSM	Downlink	13:19:28,724	CCCH	PAGING_REQUEST_TYPE_1
					1314.	13:19:34.061				1	0			12290.	L3SM	GSM	Downlink	13:19:28.743	CCCH	PAGING_REQUEST_TYPE_1
					1315,	13:19:34.858				1	0			12291,	L3SM	GSM	Downlink	13:19:29,620	BCCH	SYSTEM_INFORMATION_TYPE_2
					1316.	13:19:37.347				1	0			12292.	L3SM	GSM	Downlink	13:19:29.855	BCCH	SYSTEM_INFORMATION_TYPE_3
					1317.	13:19:37.861				1	0			12293.	L3SM	GSM	Downlink	13:19:30.012	CCCH	PAGING REQUEST TYPE 1

- This call failure event occurred on short call at 13:19:26:229 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 20 and RF condition Rx lev -97 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 7 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ SI	1 +		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	1519.	13:25:05.364	-86	25	25	1				13407.	L3SM	GSM	Uplink	13:25:10.072	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	1520.	13:25:05.835						2		13408.	L3SM	GSM	Downlink	13:25:10.187	SACCH	SYSTEM_INFORMATION_TYPE_STER
3.	12:58:27.299	GSM	900	Dro	1521.	13:25:05.859	-81	25	25	1				13409.	L3SM	GSM	Uplink	13:25:10.543	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	1522,	13:25:06.306	-81	25	25	1				13410,	L3SM	GSM	Downlink	13:25:10.658	SACCH	SYSTEM_INFORMATION_TYPE_6
5.	13:10:06.592	UMTS FDD	2100	Tim	1523.	13:25:06.306						0		13411,	L3SM	GSM	Uplink	13:25:11.014	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	1524,	13:25:06.777						0		13412.	L3SM	GSM	Downlink	13:25:11.129	SACCH	MEASUREMENT_INFORMATION
7.	13:25:16.471	GSM	900	Dro	1525.	13:25:06.856	-86	25	25	1				13413.	L3SM	GSM	Uplink	13:25:11.484	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	1526.	13:25:07.248						0		13414.	L3SM	GSM	Downlink	13:25:11.600	SACCH	MEASUREMENT_INFORMATION
9.	13:27:17,882	UMTS FDD	2100	Tim	1527.	13:25:07.363	-83	25	25	1				13415.	L3SM	GSM	Uplink	13:25:11.955	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	1528.	13:25:07.921	-81	25	25	1				13416.	L3SM	GSM	Downlink	13:25:12.070	SACCH	MEASUREMENT_INFORMATION
11,	13:32:03.874	GSM	900	Call	1529.	13:25:08.304	-81	25	25	1				13417.	L3SM	GSM	Uplink	13:25:12.426	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	1530.	13:25:08.862	-86	25	25	1				13418.	L3SM	GSM	Downlink	13:25:12.541	SACCH	MEASUREMENT_INFORMATION
13.	13:34:46.885	GSM	900	Dro	1531.	13:25:09.246	-89	25	25	1				13419.	L3SM	GSM	Uplink	13:25:12.897	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	1532.	13:25:09,601						3		13420.	L3SM	GSM	Downlink	13:25:13.012	SACCH	MEASUREMENT_INFORMATION
15,	13:36:20,556	GSM	900	Dro	1533,	13:25:09.804	-90	25	25	1			-	13421.	L3SM	GSM	Uplink	13:25:13,368	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	1534.	13:25:10.072						0		13422,	L3SM	GSM	Downlink	13:25:13.483	SACCH	SYSTEM_INFORMATION_TYPE_5
17.	13:53:46.824	UMTS FDD	2100	Dro	1535.	13:25:10.543	-87	25	25	1				13423.	L3SM	GSM	Uplink	13:25:13.838	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	1536.	13:25:10.543						4		13424.	L3SM	GSM	Downlink	13:25:13.954	SACCH	SYSTEM_INFORMATION_TYPE_STER
19.	14:01:17.787	UMTS FDD	2100	Call	1537.	13:25:11.014	-80	25	25	1				13425.	L3SM	GSM	Uplink	13:25:14.309	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	1538.	13:25:11.014						0		13426.	L3SM	GSM	Downlink	13:25:14,424	SACCH	SYSTEM_INFORMATION_TYPE_6
					1539.	13:25:11.599	-82	25	25	1				13427.	L3SM	GSM	Uplink	13:25:14.780	SACCH	MEASUREMENT_REPORT
					1540,	13:25:12.070	-79	25	25	1				13428,	L3SM	GSM	Downlink	13:25:14.895	SACCH	MEASUREMENT_INFORMATION
					1541.	13:25:12.541	-80	25	25	1				13429.	L3SM	GSM	Uplink	13:25:15.251	SACCH	MEASUREMENT_REPORT
					1542.	13:25:13.012	-79	25	25	1				13430.	L3SM	GSM	Downlink	13:25:15.366	SACCH	MEASUREMENT_INFORMATION
					1543,	13:25:13.593	-79	25	25	1				13431.	L3SM	GSM	Uplink	13:25:15.721	SACCH	MEASUREMENT_REPORT
					1544,	13:25:13.954	-79	25	25	1				13432,	L3SM	GSM	Downlink	13:25:15.836	SACCH	MEASUREMENT_INFORMATION
					1545,	13:25:14.424	-80	25	25	1				13433.	L3SM	GSM	Downlink	13:25:15.924	DCCH	ASSIGNMENT_COMMAND
					1546.	13:25:15.251	-83	25	25	1				13434,	L3SM	GSM	Uplink	13:25:15.984	DCCH	ASSIGNMENT_COMPLETE
					1547.	13:25:15.856	-82	25	25	1				13435.	L3SM	GSM	Downlink	13:25:16.314	DCCH	DISCONNECT
					1548.	13:25:16.407	-82	25	25	1				13436.	L3SM	GSM	Uplink	13:25:16.407	SACCH	MEASUREMENT_REPORT
					1549.	13:25:16.407			4			7		13437.	L3SM	GSM	Uplink	13:25:16.444	DCCH	RELEASE
					1550.	13:25:16.966								13438.	L3SM	GSM	Downlink	13:25:16.573	DCCH	RELEASE_COMPLETE
					1551.	13:25:50.093						7		13439.	L3SM	GSM	Downlink	13:25:16.693	DCCH	CHANNEL_RELEASE
					1552.	13:25:50.564						7		13440,	RRCSM	LTE FDD	Downlink	13:25:16.938	BCCH-BCH	MasterInformationBlock
					1553.	13:25:54.329						7		13441.	RRCSM	LTE FDD	Downlink	13:25:16.962	BCCH-SCH	SystemInformationBlockType1
					1554.	13:25:54.800						7		13442.	RRCSM	LTE FDD	Downlink	13:25:16.962	BCCH-SCH	SystemInformation - SIB2, SIB3

- This call failure event occurred on short call at 13:25:16:471 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 25 and RF condition Rx lev -82 dBm is good and Rx qual 7 dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-2 Call Attempt Failure Analysis 8 From MS7 CWS MO

	Time	System	Serving band	-11		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 🔺	-	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	1592.	13:26:11.768						6	13602.	L3SM	GSM	Downlink	13:26:11.067	DCCH	IDENTITY_REQUEST
2,	12:57:37.864	GSM	900	Dro	1593.	13:26:11.861	-97	20	10	1	0		13603.	L3SM	GSM	Uplink	13:26:11.067	DCCH	IDENTITY_RESPONSE
3.	12:58:27.299	GSM	900	Dro	1594.	13:26:12.391	-98	20	10	1	0		13604.	L3SM	GSM	Uplink	13:26:11.298	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	1595,	13:26:12.710						7	13605,	L3SM	GSM	Downlink	13:26:11.302	DCCH	CLASSMARK_ENQUIRY
5.	13:10:06.592	UMTS FDD	2100	Tim	1596,	13:26:12,790	-100	20	10	1	0		13606,	L3SM	GSM	Uplink	13:26:11.302	DCCH	CLASSMARK_CHANGE
6,	13:19:26.229	GSM	900	Call	1597.	13:26:13.181						0	13607.	L3SM	GSM	Uplink	13:26:11.302	DCCH	UTRAN_CLASSMARK_CHANGE
7.	13:25:16.471	GSM	900	Dro	1598.	13:26:13.333	-96	20	10	1	0		13608.	L3SM	GSM	Downlink	13:26:11.450	SACCH	SYSTEM_INFORMATION_TYPE_6
8.	13:26:17.099	GSM	900	T ing	1599,	13:26:13.651						7	13609.	L3SM	GSM	Uplink	13:26:11.768	SACCH	MEASUREMENT_REPORT
9.	13:27:17,882	UMTS FDD	2100	Tim	1600.	13:26:13.891	-99	20	10	1	0		13610.	L3SM	GSM	Downlink	13:26:11.920	SACCH	SYSTEM_INFORMATION_TYPE_5
10.	13:28:12.991	UMTS FDD	2100	Dro	1601.	13:26:14,122						4	13611.	L3SM	GSM	Uplink	13:26:12.239	SACCH	MEASUREMENT_REPORT
11,	13:32:03.874	GSM	900	Call	1602.	13:26:14.362	-98	20	10	1	0		13612.	L3SM	GSM	Uplink	13:26:12.710	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	1603.	13:26:14,593						3	13613.	L3SM	GSM	Downlink	13:26:12.862	SACCH	SYSTEM_INFORMATION_TYPE_6
13.	13:34:46.885	GSM	900	Dro	1604.	13:26:15.064	-100	20	10	4	0		13614.	L3SM	GSM	Uplink	13:26:13.181	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	1605.	13:26:15.064						7	13615.	L3SM	GSM	Downlink	13:26:13.333	SACCH	SYSTEM_INFORMATION_TYPE_5
15,	13:36:20.556	GSM	900	Dro	1606.	13:26:15.535						5	13616,	L3SM	GSM	Uplink	13:26:13.651	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	1607.	13:26:16.005						7	13617.	L3SM	GSM	Downlink	13:26:13.656	DCCH	CIPHERING_MODE_COMMAND
17.	13:53:46.824	UMTS FDD	2100	Dro	1608.	13:26:16.010	-100	20	10	1	0		13618.	L3SM	GSM	Uplink .	13:26:13.660	DCCH	CIPHERING_MODE_COMPLETE
18.	13:56:25.860	GSM	900	Nor	1609.	13:26:16.476	-100	20	10	1	0		13619.	L3SM	GSM	Uplink	13:26:13.661	DCCH	SETUP
19.	14:01:17.787	UMTS FDD	2100	Call	1610,	13:26:17.099	-99	20	10	1	0		13620.	L3SM	GSM	Downlink	13:26:13.803	SACCH	SYSTEM_INFORMATION_TYPE_STER
20.	16:05:02.449	UMTS FDD	2100	Call	1611.	13:26:17.497	-99	20	10	1	0		13621.	L3SM	GSM	Uplink	13:26:14.122	SACCH	MEASUREMENT_REPORT
					1612.	13:26:17.497							13622.	L3SM	GSM	Downlink	13:26:14.274	SACCH	SYSTEM_INFORMATION_TYPE_6
					1613,	13:26:18.378	-99	20	10	1	0		13623.	L3SM	GSM	Uplink	13:26:14.593	SACCH	MEASUREMENT_REPORT
					1614.	13:28:55.317	-83	25	27	10	10		13624,	L3SM	GSM	Uplink	13:26:15.064	SACCH	MEASUREMENT_REPORT
				1	1615.	13:28:55.317						0	13625.	L3SM	GSM	Downlink	13:26:15.216	SACCH	SYSTEM_INFORMATION_TYPE_STER
				1	1616.	13:28:56.108						2	13626.	L3SM	GSM	Uplink	13:26:15.535	SACCH	MEASUREMENT_REPORT
					1617.	13:28:56.112	-81	25	27	1	10		13627.	L3SM	GSM	Uplink	13:26:16,005	SACCH	MEASUREMENT_REPORT
					1618.	13:28:56.152						0	13628.	L3SM	GSM	Uplink	13:26:16.476	SACCH	MEASUREMENT_REPORT
					1619.	13:28:56.415	-83	25	27	1	10		13629,	L3SM	GSM	Uplink	13:26:16.947	SACCH	MEASUREMENT_REPORT
					1620.	13:28:56.632						0	13630.	L3SM	GSM	Downlink	13:26:17.497	DCCH	CHANNEL_RELEASE
					1621.	13:28:56.893	-78	25	27	1	10		13631.	L3SM	GSM	Uplink	13:26:17.497	DCCH	DISCONNECT
					1622.	13:28:57.546						0	13632.	RRCSM	LTE FDD	Downlink	13:26:18.550	BCCH-BCH	MasterInformationBlock
					1623.	13:28:57.592						0	13633.	RRCSM	LTE FDD	Downlink	13:26:19.120	BCCH-BCH	MasterInformationBlock
					1624.	13:28:57.718	-86	25	27	1	10		13634.	RRCSM	LTE FDD	Downlink	13:26:19,820	BCCH-BCH	MasterInformationBlock
					1625.	13:28:58.070							13635,	RRCSM	LTE FDD	Downlink	13:26:20.520	BCCH-BCH	MasterInformationBlock
					1626.	13:28:59.987						0	13636.	RRCSM	LTE FDD	Downlink	13:26:20.834	BCCH-SCH	SystemInformationBlockType1
					1627.	13:29:00.029	-87	20	27	1	0		13637.	RRCSM	LTE FDD	Downlink	13:26:20.834	BCCH-SCH	SystemInformation - SIB2, SIB3

- This call failure event occurred on short call at 13:26:17:099 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 20 and RF condition Rx lev -100 dBm is poor and Rx qual 0 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 9 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best -	F	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	3274.	-123.6	13:26:52.877	10690	150	10)1110[16-17	13950.	RRCSM	UMTS FDD	Downlink	13:26:56.316	BCCH_BCH	SYSTEM_INFORMATION_BCH
2	12:57:37.864	GSM	900	Dro	3275.		13:26:52.877	10690	150	-22.6	13951.	RRCSM	UMTS FDD	Downlink	13:26:56.316	BCCH	MASTER_INFORMATION_BLOCK
3.	12:58:27.299	GSM	900	Dro	3276.	-122.8	13:26:53.068	10690	150		13952.	RRCSM	UMTS FDD	Downlink	13:26:56.316	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
4.	13:05:08.352	UMTS FDD	2100	Call	3277,		13:26:53.068	10690	150	-22.4	13953.	RRCSM	UMTS FDD	Downlink	13:26:56.616	BCCH_BCH	SYSTEM_INFORMATION_BCH
5.	13:10:06.592	UMTS FDD	2100	Tim	3278.	-125.4	13:26:53.868	10690	150		13954.	RRCSM	UMTS FDD	Downlink	13:26:56.636	BCCH_BCH	SYSTEM_INFORMATION_BCH
6.	13:19:26.229	GSM	900	Call	3279.		13:26:53.868	10690	150	-23.3	13955.	RRCSM	UMTS FDD	Downlink	13:26:55.636	BCCH	MASTER_INFORMATION_BLOCK
7.	13:25:16.471	GSM	900	Dro	3280.	-125.6	13:26:54.377	10690	150		13956.	RRCSM	UMTS FDD	Downlink	13:26:56.636	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
8.	13:26:17.099	GSM	900	Tim	3281.		13:26:54.377	10690	150	-24.8	13957.	RRCSM	UMTS FDD	Downlink	13:26:56.956	BCCH_BCH	SYSTEM_INFORMATION_BCH
9.	13:27:17.882	UMTS FDD	2100	Tim	3282.	-118.8	13:26;54.864	10690	150		13958.	RRCSM	UMTS FDD	Downlink	13:26:56.956	BCCH	MASTER_INFORMATION_BLOCK
10.	13:28:12.991	UMTS FDD	2100	Dro	3283.	10000	13:26:54.864	10590	150	-13	13959.	RRCSM	UMTS FDD	Downlink	13:26:56.956	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
11.	13:32:03.874	GSM	900	Call	3284.	-123.9	13:26:55.377	10690	150		13960,	RRCSM	UMTS FDD	Downlink	13:26:57.276	BCCH_BCH	SYSTEM_INFORMATION_BCH
12.	13:33:04.222	GSM	900	Tim	3285.	7/07/2810	13:26:55.377	10690	150	-23.5	13961.	RRCSM	UMTS FDD	Downlink	13:26:57.276	BCCH	MASTER_INFORMATION_BLOCK
13.	13:34:46.885	GSM	900	Dro	3286.	-121	13:26:55.868	10690	150		13962.	RRCSM	UMTS FDD	Downlink	13:26:57.276	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
14.	13:35:35.563	GSM	900	Dro	3287.		13:26:55.868	10690	150	-20.7	13963.	RRCSM	UMTS FDD	Downlink	13:26:57.596	BCCH_BCH	SYSTEM_INFORMATION_BCH
15.	13:36:20.556	GSM	900	Dro	3288.	-122.6	13:26:56.548	10690	150		13964.	RRCSM	UMTS FDD	Downlink	13:26:57.596	BCCH	MASTER_INFORMATION_BLOCK
16.	13:45:39.006	UMTS FDD	2100	Dro	3289.		13:26:56.548	10690	150	-21.8	13965.	RRCSM	UMTS FDD	Downlink	13:26:57.596	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
17.	13:53:46.824	UMTS FDD	2100	Dro	3290.	-121.5	13:26:56.862	10690	150		13966.	RRCSM	UMTS FDD	Downlink	13:26:57.916	BCCH_BCH	SYSTEM_INFORMATION_BCH
18.	13:56:25,860	GSM	900	Nor	3291.	19771-2	13:26:56.862	10690	150	-20.5	13967.	RRCSM	UMTS FDD	Downlink	13:26:57.916	BCCH	MASTER_INFORMATION_BLOCK
19.	14:01:17,787	UMTS FDD	2100	Call	3292.	-125.6	13:26:57.608	10690	150		13968,	RRCSM	UMTS FDD	Downlink	13:26:57.916	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
20.	16:05:02.449	UMTS FDD	2100	Call	3293.		13:26:57.608	10690	150	-24	13969.	L3SM	GSM	Downlink	13:27:03.690	BCCH	SYSTEM_INFORMATION_TYPE_4
				11-10	3294.	-122.5	13:26:58.330	10690	150	redente-	13970.	RRCSM	UMTS FDD	Downlink	13:27:22.195	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3295.		13:26:58.330	10690	150	-21,5	13971.	RRCSM	UMTS FDD	Downlink	13:27:22.215	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3296.	-117.8	13:27:58.613	10590	150		13972.	RRCSM	UMTS FDD	Downlink	13:27:22.235	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3297,		13:27:58.613	10690	150	-18	13973,	RRCSM	UMTS FDD	Downlink	13:27:22.235	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					3298.	-118.5	13:27:59.106	10690	150		13974,	RRCSM	UMTS FDD	Downlink	13:27:22.255	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3299.		13:27:59.106	10690	150	-19.2	13975,	RRCSM	UMTS FDD	Downlink	13:27:22.255	BCCH	MASTER_INFORMATION_BLOCK
					3300.	-121.9	13:27:59.595	10690	150		13976.	RRCSM	UMTS FDD	Downlink	13:27:22.595	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3301,		13:27:59.595	10690	150	-22	13977,	RRCSM	UMTS FDD	Downlink	13:27:22.595	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					3302,	-117.4	13:28:00.095	10690	150		13978.	RRCSM	UMTS FDD	Downlink	13:27:22.595	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					3303.		13:28:00.095	10690	150	-17.5	13979.	RRCSM	UMTS FDD	Downlink	13:27:22.615	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3304.	-121.9	13:28:00.626	10690	150		13980,	RRCSM	UMTS FDD	Downlink	13:27:22.635	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3305.		13:28:00.626	10690	150	-22	13981.	RRCSM	UMTS FDD	Downlink	13:27:22.655	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3306.	-121.9	13:28:01.095	10690	150		13982.	RRCSM	UMTS FDD	Downlink	13:27:22.655	8CCH	MASTER_INFORMATION_BLOCK
					3307.		13:28:01.095	10690	150	-21.1	13983.	RRCSM	UMTS FDD	Downlink	13:27:22.875	BCCH_BCH	SYSTEM_INFORMATION_BCH
				į	3308.	-119.2	13:28:01.846	10590	150		13984.	RRCSM	UMTS FDD	Downlink	13:27:22.875	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					3309.		13:28:01.846	10690	150	-19.2	13985.	RRCSM	UMTS FDD	Downlink	13:27:22.895	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3310.	-121	13:28:02.293	10690	150		13986.	RRCSM	UMTS FDD	Downlink	13:27:22.895	BCCH	MASTER_INFORMATION_BLOCK
É.				F	4					1	13987.	RRCSM	UMTS FDD	Downlink	13:27:38.075	BCCH BCH	SYSTEM INFORMATION BCH

- This call failure event occurred on short call at 13:27:17:882 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 150 and RF condition RSCP -122.5 dBm and Ec/No -21.5 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.
Phase-2 Call Attempt Failure Analysis 10 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best	4		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	3327.	and the second second second	13:28:06.609	10715	150	-16,1	-	14105.	RRCSM	UMTS FDD	Uplink	13:28:04.768	DCCH	UPLINK_DIRECT_TRANSFER
2	12:57:37.864	GSM	900	Dro	3328.	-123.3	13:28:07.169	10715	150			14106.	L3SM	UMTS FDD	Uplink	13:28:04.768	DCCH	SERVICE_REQUEST
3.	12:58:27.299	GSM	900	Dro	3329.	- Alexandr	13:28:07.169	10690	150	-23		14107.	RRCSM	UMTS FDD	Downlink	13:28:04.864	DCCH	DOWNLINK_DIRECT_TRANSFER
4.	13:05:08.352	UMTS FDD	2100	Call	3330.	-122.4	13:28:07.587	10690	150	4		14108,	L3SM	UMTS FDD	Downlink	13:28:04,864	DCCH	SERVICE_ACCEPT
5.	13:10:06.592	UMTS FDD	2100	Tim	3331.		13:28:07.587	10715	150	-20.8		14109.	RRCSM	UMTS FDD	Downlink	13:28:05.024	DCCH	RADIO_BEARER_SETUP
6.	13:19:26.229	GSM	900	Call	3332,	-123.5	13:28:08.087	10715	150			14110.	RRCSM	UMTS FDD	Uplink	13:28:05.330	DCCH	RADIO_BEARER_SETUP_COMPLETE
7.	13:25:16.471	GSM	900	Dro	3333.		13:28:08.087	10690	150	-22.3		14111.	RRCSM	UMTS FDD	Downlink	13:28:05.943	DCCH	MEASUREMENT_CONTROL
8.	13:26:17.099	GSM	900	Tim	3334.	-116.9	13:28:08.655	10715	150		30	14112.	RRCSM	UMTS FDD	Downlink	13:28:05.983	DCCH	MEASUREMENT_CONTROL
9.	13:27:17.882	UMTS FDD	2100	Tim	3335.		13:28:08.655	10715	150	-18.7 -	-	14113.	RRCSM	UMTS FDD	Downlink	13:28:06.023	DCCH	MEASUREMENT_CONTROL
10.	13:28:12.991	UMTS FDD	2100	Dro	3336.	-119.9	13:28:09.167	10590	150	to allow		14114,	RRCSM	UMTS FDD	Downlink	13:28:06.063	DCCH	MEASUREMENT_CONTROL
11.	13:32:03.874	GSM	900	Call	3337,		13:28:09.167	10690	150	-18,3		14115,	RRCSM	UMTS FDD	Downlink	13:28:06.103	DCCH	MEASUREMENT_CONTROL
12.	13:33:04.222	GSM	900	Tim	3338.	-122.4	13:28:09.678	10715	150			14116.	RRCSM	UMTS FDD	Downlink	13:28:06.143	DCCH	MEASUREMENT_CONTROL
13.	13:34:46.885	GSM	900	Dro	3339.		13:28:09.678	10690	150	-22		14117,	RRCSM	UMTS FDD	Downlink	13:28:06.223	DCCH	DOWNLINK_DIRECT_TRANSFER
14.	13:35:35.563	GSM	900	Dro	3340.	-117.5	13:28:10.326	10715	150			14118,	L3SM	UMTS FDD	Downlink	13:28:06.223	DCCH	MODIFY_PDP_CONTEXT_REQUEST
15.	13:36:20.556	GSM	900	Dro	3341.		13:28:10.326	10715	150	-19.1		14119,	RRCSM	UMTS FDD	Uplink	13:28:06.225	DCCH	UPLINK_DIRECT_TRANSFER
16.	13:45:39.006	UMTS FDD	2100	Dro	3342,	-120.8	13:28:10.863	10715	150			14120.	L3SM	UMTS FDD	Uplink	13:28:06.225	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
17.	13:53:46.824	UMTS FDD	2100	Dro	3343.		13:28:10.863	10690	150	-20.3		14121.	RRCSM	UMTS FDD	Uplink	13:28:06.785	DCCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	3344.	-119.6	13:28:11.226	10690	150	la series de la se		14122.	RRCSM	UMTS FDD	Uplink	13:28:07.945	DCCH	MEASUREMENT_REPORT
19.	14:01:17.787	UMTS FDD	2100	Call	3345.		13:28:11.226	10690	150	-18.7		14123,	RRCSM	UMTS FDD	Downlink	13:28:07.983	DCCH	RADIO_BEARER_RECONFIGURATION
20.	16:05:02.449	UMTS FDD	2100	Call	3346.	-121.2	13:28:11.847	10715	150			14124.	RRCSM	UMTS FDD	Uplink	13:28:08.671	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					3347,		13:28:11.847	10715	150	-19.6		14125,	RRCSM	UMTS FDD	Uplink	13:28:09.945	DCCH	MEASUREMENT_REPORT
					3348.	-116,7	13:28:12.318	10690	150			14126.	RRCSM	UMTS FDD	Downlink	13:28:11.303	DCCH	MEASUREMENT_CONTROL
					3349.	and the second sec	13:28:12.318	10690	150	-16.8		14127.	RRCSM	UMTS FDD	Uplink	13:28:11.925	DCCH	MEASUREMENT_REPORT
					3350.	-113.5	13:28:12.863	10715	150			14128.	RRCSM	UMTS FDD	Downlink	13:28:11.943	DCCH	RADIO_BEARER_SETUP
					3351,		13:28:12.863	10715	150	-18.1		14129.	RRCSM	UMTS FDD	Uplink	13:28:11.947	DCCH	MEASUREMENT_REPORT
					3352.	-113.4	13:28:13.426	10715	150			14130.	RRCSM	UMTS FDD	Uplink	13:28:11.947	DCCH	MEASUREMENT_REPORT
					3353.		13:28:13.426	10690	150	-16.1		14131.	RRCSM	UMTS FDD	Uplink	13:28:12.471	DCCH	RADIO_BEARER_SETUP_COMPLETE
					3354.	-113.4	13:28:13.824	10690	150			14132,	RRCSM	UMTS FDD	Downlink	13:28:12.704	DICCH	MEASUREMENT_CONTROL
					3355.	100000	13:28:13.824	10690	150	-13.5		14133.	RRCSM	UMTS FDD	Downlink	13:28:12.744	DCCH	MEASUREMENT_CONTROL
					3356,	-114.7	13:28:14.416	10715	150			14134,	RRCSM	UMTS FDD	Downlink	13:28:12.784	DCCH	MEASUREMENT_CONTROL
					3357,		13:28:14.416	10715	150	-12,4		14135,	RRCSM	UMTS FDD	Downlink	13:28:12.784	DCCH	MEASUREMENT_CONTROL
					3358.	-99	13:28:44.862	10690	150			14136.	RRCSM	UMTS FDD	Downlink	13:28:12.864	DCCH	DOWNLINK_DIRECT_TRANSFER
					3359.		13:28:44.862	10690	150	-11.5		14137.	L3SM	UMTS FDD	Downlink	13:28:12.864	DCCH	DISCONNECT
					3360.	-99	13:28:45.547	10690	150	Contraction		14138.	RRCSM	UMTS FDD	Uplink	13:28:12.991	DCCH	UPLINK_DIRECT_TRANSFER
					3361,		13:28:45.547	10690	150	-15		14139.	L3SM	UMTS FDD	Uplink	13:28:12.991	DCCH	RELEASE
					3362.	-99	13:28:45.861	10690	150			14140.	RRCSM	UMTS FDD	Uplink	13:28:13.027	DCCH	MEASUREMENT_REPORT
					3363.		13:28:45.861	10690	150	-5.7	-	14141.	RRCSM	UMTS FDD	Downlink	13:28:13.343	DCCH	RADIO_BEARER_RELEASE
1				F	1					×		14142.	RRCSM	UMTS FDD	Downlink	13:28:13.383	DCCH	DOWNLINK_DIRECT_TRANSFER

- This call failure event occurred on short call at 13:28:12:991 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 150 and RF condition RSCP -120.8 dBm and Ec/No -20.3 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 11 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC I	LAC	RAC	RXQ SU	-		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	1762.	13:31:56.220	-97	20	27	1	0			15196.	L3SM	GSM	Uplink	13:31:58.407	SACCH	MEASUREMENT_REPORT
2.	12:57:37.864	GSM	900	Dro	1763.	13:31:56.860	-97	20	27	1	0			15197.	L3SM	GSM	Uplink	13:31:58.878	SACCH	MEASUREMENT_REPORT
3.	12:58:27.299	GSM	900	Dro	1764.	13:31:56.995						5		15198.	L3SM	GSM	Downlink	13:31:59.030	SACCH	MEASUREMENT_INFORMATION
4.	13:05:08,352	UMTS FDD	2100	Call	1765,	13:31:57.275	-97	20	27	1	0			15199,	L3SM	GSM	Uplink	13:31:59.349	SACCH	MEASUREMENT_REPORT
5.	13:10:06.592	UMTS FDD	2100	Tim	1766,	13:31:57.466						7		15200.	L3SM	GSM	Downlink	13:31:59.501	SACCH	MEASUREMENT_INFORMATION
6,	13:19:26.229	GSM	900	Call	1767.	13:31:57.860	-97	20	27	1	0			15201.	L3SM	GSM	Uplink	13:31:59.820	SACCH	MEASUREMENT_REPORT
7.	13:25:16.471	GSM	900	Dro	1768.	13:31:57.937						6		15202.	L3SM	GSM	Downlink	13:31:59.824	DCCH	CIPHERING_MODE_COMMAND
8.	13:26:17.099	GSM	900	Tim	1769,	13:31:58.222	-97	20	27	1	0			15203.	L3SM	GSM	Uplink	13:31:59.829	DCCH	CIPHERING_MODE_COMPLETE
9.	13:27:17,882	UMTS FDD	2100	Tim	1770.	13:31:58.407						7		15204.	L3SM	GSM	Uplink	13:31:59.829	DCCH	SETUP
10.	13:28:12.991	UMTS FDD	2100	Dro	1771.	13:31:58.861	-98	20	27	1	0			15205.	L3SM	GSM	Downlink	13:31:59.972	SACCH	MEASUREMENT_INFORMATION
11,	13:32:03.874	GSM	900	Call	1772.	13:31:59.349	-97	20	27	1	0			15206.	L3SM	GSM	Uplink	13:32:00.290	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	1773.	13:31:59.349						6		15207.	L3SM	GSM	Uplink	13:32:00.761	SACCH	MEASUREMENT_REPORT
13.	13:34:46.885	GSM	900	Dro	1774.	13:31:59.820						6		15208.	L3SM	GSM	Downlink	13:32:00.913	SACCH	SYSTEM_INFORMATION_TYPE_STER
14,	13:35:35.563	GSM	900	Dro	1775.	13:31:59.862	-98	20	27	1	0			15209.	L3SM	GSM	Uplink	13:32:01.232	SACCH	MEASUREMENT_REPORT
15,	13:36:20.556	GSM	900	Dro	1776.	13:32:00.290						4		15210,	L3SM	GSM	Downlink	13:32:01.384	SACCH	SYSTEM_INFORMATION_TYPE_6
16.	13:45:39.006	UMTS FDD	2100	Dro	1777.	13:32:00.442	-95	20	27	1	0			15211.	L3SM	GSM	Uplink	13:32:01.703	SACCH	MEASUREMENT_REPORT
17.	13:53:46.824	UMTS FDD	2100	Dro	1778,	13:32:00.761						7	_	15212.	L3SM	GSM	Downlink	13:32:01.942	DCCH	CHANNEL_RELEASE
18.	13:56:25.860	GSM	900	Nor	1779.	13:32:01.001	-97	20	27	1	0			15213.	L3SM	GSM	Downlink	13:32:02.800	CCCH	PAGING_REQUEST_TYPE_1
19.	14:01:17.787	UMTS FDD	2100	Call	1780.	13:32:01.232						3		15214.	L3SM	GSM	Downlink	13:32:02.819	CCCH	PAGING_REQUEST_TYPE_1
20.	16:05:02.449	UMTS FDD	2100	Call	1781.	13:32:01.472	-96	20	27	1	0			15215.	L3SM	GSM	Downlink	13:32:03.197	CCCH	PAGING_REQUEST_TYPE_1
					1782.	13:32:01.703						5		15216.	L3SM	GSM	Downlink	13:32:03.322	BCCH	SYSTEM_INFORMATION_TYPE_4
					1783,	13:32:01.943	-95	20	27	1	0			15217.	L3SM	GSM	Downlink	13:32:03.387	CCCH	IMMEDIATE_ASSIGNMENT
					1784.	13:32:01.943								15218,	MACSM	GSM	Downlink	13:32:03.583	PACCH	PACKET_POLLING_REQUEST
					1785.	13:32:02.773	-95	20	27	1	0			15219.	MACSM	GSM	Downlink	13:32:03.703	PACCH	PACKET_POWER_CONTROL/TIMING_ADVANCE
					1786.	13:32:03.874	-95	20	27	1	0			15220.	MACSM	GSM	Downlink	13:32:03.722	PACCH	PACKET_DOWNLINK_ASSIGNMENT
					1787.	13:32:04.141	-99	20	27	1	0			15221.	MACSM	GSM	Downlink	13:32:05.761	PACCH	PACKET_UPLINK_ACK/NACK
					1788.	13:32:04.860	-99	20	27	1	0			15222.	MACSM	GSM	Downlink	13:32:06.001	PACCH	PACKET_UPLINK_ACK/NACK
					1789.	13:32:05.257	-99	20	27	1	0			15223.	MACSM	GSM	Downlink	13:32:06.402	PACCH	PACKET_UPLINK_ACK/NACK
					1790.	13:32:05.917	-99	20	27	1	0			15224.	MACSM	GSM	Downlink	13:32:06.421	PACCH	PACKET_UPLINK_ACK/NACK
					1791,	13:32:06.291	-98	20	27	1	0			15225.	MACSM	GSM	Downlink	13:32:06.582	PACCH	PACKET_UPLINK_ACK/NACK
					1792.	13:32:06.858	-98	20	27	1	0			15226.	MACSM	GSM	Downlink	13:32:06.684	PACCH	PACKET_UPLINK_ACK/NACK
					1793.	13:32:07.376	-98	20	27	1	0			15227.	MACSM	GSM	Downlink	13:32:06.923	PACCH	PACKET_UPLINK_ACK/NACK
					1794.	13:32:08.087	-97	20	27	1	0			15228.	MACSM	GSM	Downlink	13:32:07,141	PACCH	PACKET_UPLINK_ACK/NACK
					1795.	13:32:08.463	-97	20	27	1	0			15229,	MACSM	GSM	Downlink	13:32:07.302	PACCH	PACKET_UPLINK_ACK/NACK
					1796.	13:32:08.874	-97	20	27	1	0			15230.	MACSM	GSM	Downlink	13:32:07.561	PACCH	PACKET_UPLINK_ACK/NACK
					1797.	13:32:10.026	-97	20	27	1	0			15231.	MACSM	GSM	Downlink	13:32:07.741	PACCH	PACKET_UPLINK_ACK/NACK

- This call failure event occurred on short call at 13:32:03:874 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 20 and RF condition Rx lev -95 dBm is poor and Rx qual 0 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 12 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 🔺	_	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:52:31.730	GSM	900	Dro	1922.	13:32:58.195						2	15512.	L3SM	GSM	Downlink	13:32:59.778	SACCH	SYSTEM_INFORMATION_TYPE_5	Ar
2,	12:57:37.864	GSM	900	Dro	1923.	13:32:58.365	-95	20	27	1	0	15	15513.	L3SM	GSM	Uplink	13:33:00.078	SACCH	MEASUREMENT_REPORT	•
3.	12:58:27.299	GSM	900	Dro	1924.	13:32:58.666						6	15514,	L3SM	GSM	Downlink	13:33:00.248	SACCH	SYSTEM_INFORMATION_TYPE_STER	
4.	13:05:08,352	UMTS FDD	2100	Call	1925,	13:32:58.948	-95	20	27	1	0		15515,	L3SM	GSM	Uplink	13:33:00.548	SACCH	MEASUREMENT_REPORT	
5.	13:10:06.592	UMTS FDD	2100	Tim	1926,	13:32:59.136						2	15516,	L3SM	GSM	Downlink	13:33:00.719	SACCH	SYSTEM_INFORMATION_TYPE_6	
6,	13:19:26.229	GSM	900	Call	1927.	13:32:59.607	-97	20	27	1	0		15517.	L3SM	GSM	Uplink	13:33:01.019	SACCH	MEASUREMENT_REPORT	
7.	13:25:16.471	GSM	900	Dro	1928.	13:32:59.607						2	15518.	L3SM	GSM	Downlink	13:33:01.190	SACCH	MEASUREMENT_INFORMATION	•
8.	13:26:17.099	GSM	900	Tim	1929,	13:33:00.078						1	15519.	L3SM	GSM	Uplink	13:33:01.490	SACCH	MEASUREMENT_REPORT	
9.	13:27:17.882	UMTS FDD	2100	Tim	1930.	13:33:00.501	-94	20	27	1	0		15520.	L3SM	GSM	Downlink	13:33:01.661	SACCH	MEASUREMENT_INFORMATION	
10.	13:28:12.991	UMTS FDD	2100	Dro	1931.	13:33:00.548						3	15521.	L3SM	GSM	Uplink	13:33:01.961	SACCH	MEASUREMENT_REPORT	
11,	13:32:03.874	GSM	900	Call	1932.	13:33:01.019						0	15522.	L3SM	GSM	Downlink	13:33:02.131	SACCH	MEASUREMENT_INFORMATION	
12.	13:33:04.222	GSM	900	Tim	1933.	13:33:01.190	-93	20	27	1	0		15523,	L3SM	GSM	Uplink	13:33:02.432	SACCH	MEASUREMENT_REPORT	
13.	13:34:46.885	GSM	900	Dro	1934.	13:33:01.858	-94	20	27	1	0		15524.	L3SM	GSM	Downlink	13:33:02.602	SACCH	MEASUREMENT_INFORMATION	•
14,	13:35:35.563	GSM	900	Dro	1935.	13:33:01.961						0	15525.	L3SM	GSM	Uplink	13:33:02.902	SACCH	MEASUREMENT_REPORT	
15,	13:36:20.556	GSM	900	Dro	1936.	13:33:02.131	-93	20	27	1	0		15526,	L3SM	GSM	Downlink	13:33:03,073	SACCH	MEASUREMENT_INFORMATION	
16.	13:45:39.006	UMTS FDD	2100	Dro	1937.	13:33:02.432						0	15527.	L3SM	GSM	Uplink	13:33:03.373	SACCH	MEASUREMENT_REPORT	
17.	13:53:46.824	UMTS FDD	2100	Dro	1938.	13:33:02.537	-90	20	27	1	0		15528.	L3SM	GSM	Downlink	13:33:03.544	SACCH	SYSTEM_INFORMATION_TYPE_5	
18.	13:56:25.860	GSM	900	Nor	1939.	13:33:02.902						2	15529.	L3SM	GSM	Uplink	13:33:03.844	SACCH	MEASUREMENT_REPORT	•
19.	14:01:17.787	UMTS FDD	2100	Call	1940,	13:33:02.982	-97	20	27	1	0		15530,	L3SM	GSM	Downlink	13:33:04.015	SACCH	SYSTEM_INFORMATION_TYPE_STER	
20.	16:05:02.449	UMTS FDD	2100	Call	1941.	13:33:03.373						0	15531.	L3SM	GSM	Uplink	13:33:04.315	SACCH	MEASUREMENT_REPORT	
					1942.	13:33:03.844						3	15532.	L3SM	GSM	Downlink	13:33:04.485	SACCH	SYSTEM_INFORMATION_TYPE_6	
					1943,	13:33:03.861	-93	20	27	1	0		15533,	L3SM	GSM	Uplink	13:33:04.695	DCCH	DISCONNECT	
					1944.	13:33:04.315						5	15534,	L3SM	GSM	Uplink	13:33:04,785	SACCH	MEASUREMENT_REPORT	
				1	1945.	13:33:04.785						0	15535.	L3SM	GSM	Downlink	13:33:04.956	SACCH	MEASUREMENT_INFORMATION	
				1	1946.	13:33:04.956	-92	20	27	1	0		15536.	L3SM	GSM	Uplink	13:33:05.256	SACCH	MEASUREMENT_REPORT	
					1947.	13:33:05.256						0	15537.	L3SM	GSM	Downlink	13:33:05.427	SACCH	MEASUREMENT_INFORMATION	
					1948.	13:33:05.279	-93	20	27	1	0		15538.	L3SM	GSM	Downlink	13:33:05.515	DCCH	ASSIGNMENT_COMMAND	
					1949,	13:33:05.691						7	15539,	L3SM	GSM	Uplink	13:33:05.575	DCCH	ASSIGNMENT_COMPLETE	
					1950.	13:33:05.940	-93	25	27	1	0		15540.	L3SM	GSM	Uplink	13:33:05.691	SACCH	MEASUREMENT_REPORT	
					1951.	13:33:06.451							15541.	L3SM	GSM	Downlink	13:33:05.816	DCCH	RELEASE	
				1	1952.	13:33:07.994	-93	25	27	1	0		15542.	L3SM	GSM	Uplink	13:33:05.816	DCCH	RELEASE_COMPLETE	
					1953.	13:33:08.696	-96	20	27	1	0		15543.	L3SM	GSM	Downlink	13:33:05.977	DCCH	CHANNEL_RELEASE	
					1954.	13:33:09.208	-96	20	27	1	0		15544.	L3SM	GSM	Downlink	13:33:06.261	CCCH	PAGING_REQUEST_TYPE_1	
				1	1955,	13:33:09,785	-96	20	27	1	0		15545,	L3SM	GSM	Downlink	13:33:06.405	BCCH	SYSTEM_INFORMATION_TYPE_4	
					1956.	13:33:10.274	-96	20	27	1	0		15546.	L3SM	GSM	Downlink	13:33:06.469	CCCH	PAGING_REQUEST_TYPE_1	
					1957.	13:33:10.791	-96	20	27	1	0		15547.	L3SM	GSM	Downlink	13:33:06.608	CCCH	PAGING_REQUEST_TYPE_2	

- This call failure event occurred on short call at 13:33:04:222 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched
 with ARFCN 20 and RF condition Rx lev -97
 dBm is poor and Rx qual 0 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 13 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ SU			Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	2184.	13:34:40.351						5		16034.	L3SM	GSM	Uplink	13:34:43.176	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	2185.	13:34:40.411	-94	20	27	1	0			16035.	L3SM	GSM	Downlink	13:34:43.545	SACCH	MEASUREMENT_INFORMATION
3.	12:58:27.299	GSM	900	Dro	2186,	13:34:40.822						0		16036.	L3SM	GSM	Uplink	13:34:43.646	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	2187,	13:34:41.191	-94	20	27	1	0			16037,	L3SM	GSM	Downlink	13:34:44,016	SACCH	SYSTEM_INFORMATION_TYPE_5
5.	13:10:06.592	UMTS FDD	2100	Tim	2188.	13:34:41.293						0		16038,	L3SM	GSM	Uplink	13:34:44.117	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	2189,	13:34:41.860	-88	20	27	1	0			16039.	L3SM	GSM	Uplink	13:34:44,588	SACCH	MEASUREMENT_REPORT
7.	13:25:16.471	GSM	900	Dro	2190.	13:34:42.234						0		16040.	L3SM	GSM	Downlink	13:34:44.957	SACCH	SYSTEM_INFORMATION_TYPE_6
8.	13:26:17.099	GSM	900	Tim	2191.	13:34:42.294	-95	20	27	1	0			16041,	L3SM	GSM	Uplink	13:34:45.059	SACCH	MEASUREMENT_REPORT
9.	13:27:17.882	UMTS FDD	2100	Tim	2192.	13:34:42.705						0		16042.	L3SM	GSM	Downlink	13:34:45.428	SACCH	MEASUREMENT_INFORMATION
10.	13:28:12.991	UMTS FDD	2100	Dro	2193.	13:34:42.928	-96	20	27	1	0			16043.	L3SM	GSM	Uplink	13:34:45.530	SACCH	MEASUREMENT_REPORT
11.	13:32:03.874	GSM	900	Call	2194.	13:34:43.176						0		16044.	L3SM	GSM	Downlink	13:34:45.899	SACCH	MEASUREMENT_INFORMATION
12.	13:33:04.222	GSM	900	Tim	2195.	13:34:43,235	-89	20	27	1	0			16045.	L3SM	GSM	Uplink	13:34:46.000	SACCH	MEASUREMENT_REPORT
13.	13:34:46.885	G5M	900	Dro	2196.	13:34:43.860	-87	20	27	1	0			16046.	L3SM	GSM	Downlink	13:34:46.296	DCCH	ASSIGNMENT_COMMAND
14,	13:35:35.563	GSM	900	Dro	2197.	13:34:44.117						2		16047.	L3SM	GSM	Uplink	13:34:46.356	DCCH	ASSIGNMENT_COMPLETE
15,	13:36:20,556	GSM	900	Dro	2198,	13:34:44.412	-93	20	27	1	0			16048,	L3SM	GSM	Uplink	13:34:46,369	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	2199.	13:34:44.588						7		16049.	L3SM	GSM	Downlink	13:34:46.715	DCCH	DISCONNECT
17.	13:53:46.824	UMTS FDD	2100	Dro	2200.	13:34:44.957	-98	20	27	1	0			16050.	L3SM	GSM	Downlink	13:34:46.803	SACCH	SYSTEM_INFORMATION_TYPE_STER
18.	13:56:25.860	GSM	900	Nor	2201.	13:34:45.059						1		16051.	L3SM	GSM	Uplink	13:34:46.817	DCCH	RELEASE
19.	14:01:17.787	UMTS FDD	2100	Call	2202.	13:34:45.530	-94	20	27	1	0			16052.	LBSM	GSM	Uplink	13:34:46.885	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	2203.	13:34:45.530						0		16053,	L3SM	GSM	Downlink	13:34:46.955	DCCH	RELEASE_COMPLETE
					2204.	13:34:46.000						2	1	16054.	L3SM	GSM	Downlink	13:34:47.075	DCCH	CHANNEL_RELEASE
					2205,	13:34:46.060	-93	20	27	1	0			16055,	L3SM	GSM	Downlink	13:34:47.333	CCCH	IMMEDIATE_ASSIGNMENT
					2206.	13:34:46.369						7		16056,	MACSM	GSM	Uplink	13:34:47.426	PACCH	PACKET_RESOURCE_REQUEST
					2207.	13:34:46.775						7		16057.	MACSM	GSM	Downlink	13:34:47.501	PACCH	PACKET_UPLINK_ACK/NACK
					2208.	13:34:46.885						3		16058.	MACSM	GSM	Downlink	13:34:47.542	PACCH	PACKET_UPLINK_ACK/NACK
					2209,	13:34:47.223	-94	25	27	1	0			16059.	MACSM	GSM	Downlink	13:34:47.561	PAGCH	PACKET_UPLINK_ASSIGNMENT
					2210.	13:34:47.223								16060.	MACSM	GSM	Uplink	13:34:47.561	PACCH	PACKET_UPLINK_DUMMY_CONTROL_BLOCK
					2211.	13:34:47.822	-94	25	27	1	0			16061,	MACSM	GSM	Downlink	13:34:47,663	PACCH	PACKET_UPLINK_ACK/NACK
					2212.	13:34:48.179	-96	20	27	1	0			16062.	MACSM	GSM	Downlink	13:34:47.760	PACCH	PACKET_POLLING_REQUEST
					2213.	13:34:48.860	-96	20	27	1	0			16063.	MACSM	GSM	Downlink	13:34:47.922	PACCH	PACKET_DOWNLINK_ASSIGNMENT
					2214.	13:34:49.167	-96	20	27	1	0			16064.	MACSM	GSM	Downlink	13:34:47.940	PACCH	PACKET_UPLINK_ACK/NACK
					2215.	13:34:49.862	-96	20	27	1	0			16065.	MACSM	GSM	Downlink	13:34:48.041	PACCH	PACKET_POWER_CONTROL/TIMING_ADVANCE
					2216.	13:34:50.367	-96	20	27	1	0			16066.	MACSM	GSM	Uplink	13:34:48.078	PACCH	EGPRS_PACKET_DOWNLINK_ACK/NACK
					2217.	13:34:50.852	-96	20	27	1	0			16067,	MACSM	GSM	Downlink	13:34:48.263	PACCH	PACKET_UPLINK_ACK/NACK
					2218.	13:34:51.364	-96	20	27	1	0			16068.	MACSM	GSM	Downlink	13:34:48.360	PACCH	PACKET_POLLING_REQUEST
					2219.	13:34:51.859	-96	20	27	1	0			16069.	MACSM	GSM	Downlink	13:34:48.461	PACCH	PACKET_UPLINK_ACK/NACK

- This call failure event occurred on short call at 13:34:46:885 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 20 and RF condition Rx lev -94 dBm is poor and Rx qual 0 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 14 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su	•		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:52:31.730	GSM	900	Dro	2310.	13:35:29.574	-96	20	27	1	0			16256.	L3SM	GSM	Downlink	13:35:29.957	SACCH	SYSTEM_INFORMATION_TYPE_6	A
2.	12:57:37.864	GSM	900	Dro	2311.	13:35:29.787						7		16257.	L3SM	GSM	Uplink	13:35:30.258	SACCH	MEASUREMENT_REPORT	•
3.	12:58:27.299	GSM	900	Dro	2312.	13:35:30.045	-97	20	27	1	0			16258.	L3SM	GSM	Downlink	13:35:30.428	SACCH	MEASUREMENT_INFORMATION	
4.	13:05:08,352	UMTS FDD	2100	Call	2313,	13:35:30.258						4		16259,	L3SM	GSM	Uplink	13:35:30.728	SACCH	MEASUREMENT_REPORT	
5.	13:10:06.592	UMTS FDD	2100	Tim	2314.	13:35:30.428	-97	20	27	1	0			16260,	L3SM	GSM	Downlink	13:35:30.899	SACCH	MEASUREMENT_INFORMATION	
6,	13:19:26.229	GSM	900	Call	2315,	13:35:30.728						3		16261.	L3SM	GSM	Uplink	13:35:31.199	SACCH	MEASUREMENT_REPORT	
7.	13:25:16.471	GSM	900	Dro	2316.	13:35:30.865	-93	20	27	1	0			16262.	L3SM	GSM	Downlink	13:35:31.370	SACCH	MEASUREMENT_INFORMATION	•
8.	13:26:17.099	GSM	900	Tim	2317.	13:35:31.199						2		16263.	L3SM	GSM	Uplink	13:35:31.670	SACCH	MEASUREMENT_REPORT	
9.	13:27:17,882	UMTS FDD	2100	Tim	2318.	13:35:31.370	-91	20	27	1	0			16264,	L3SM	GSM	Uplink	13:35:32.141	SACCH	MEASUREMENT_REPORT	
10.	13:28:12.991	UMTS FDD	2100	Dro	2319.	13:35:31.670						1		16265.	L3SM	GSM	Uplink	13:35:32.611	SACCH	MEASUREMENT_REPORT	
11,	13:32:03.874	GSM	900	Call	2320.	13:35:32.099	-95	20	27	1	0			16266,	L3SM	GSM	Downlink	13:35:32.782	SACCH	SYSTEM_INFORMATION_TYPE_5	
12.	13:33:04.222	GSM	900	Tim	2321.	13:35:32.141						7		16267.	L3SM	GSM	Uplink	13:35:33.082	SACCH	MEASUREMENT_REPORT	
13.	13:34:46.885	GSM	900	Dro	2322.	13:35:32.311	-95	20	27	1	0			16268.	L3SM	GSM	Downlink	13:35:33.253	SACCH	SYSTEM_INFORMATION_TYPE_STER	•
14,	13:35:35.563	GSM	900	Dro	2323,	13:35:32.611						7		16269.	L3SM	GSM	Uplink	13:35:33.553	SACCH	MEASUREMENT_REPORT	
15,	13:36:20,556	GSM	900	Dro	2324,	13:35:33.082	-92	20	27	1	0			16270,	L3SM	GSM	Downlink	13:35:33.723	SACCH	SYSTEM_INFORMATION_TYPE_6	
16.	13:45:39.006	UMTS FDD	2100	Dro	2325,	13:35:33.082						6		16271.	L3SM	GSM	Uplink	13:35:34.024	SACCH	MEASUREMENT_REPORT	
17.	13:53:46.824	UMTS FDD	2100	Dro	2326.	13:35:33.553	-95	20	27	1	0			16272.	L3SM	GSM	Downlink	13:35:34.194	SACCH	MEASUREMENT_INFORMATION	
18.	13:56:25.860	GSM	900	Nor	2327.	13:35:33.553						4		16273.	L3SM	GSM	Uplink	13:35:34,495	SACCH	MEASUREMENT_REPORT	•
19.	14:01:17.787	UMTS FDD	2100	Call	2328.	13:35:34.024						1		16274.	L3SM	GSM	Downlink	13:35:34.665	SACCH	MEASUREMENT_INFORMATION	
20.	16:05:02.449	UMTS FDD	2100	Call	2329.	13:35:34.102	-91	20	27	1	0			16275.	L3SM	GSM	Uplink	13:35:34.965	SACCH	MEASUREMENT_REPORT	
					2330.	13:35:34.495						6		16276.	L3SM	GSM	Downlink	13:35:34.988	DCCH	ASSIGNMENT_COMMAND	
					2331.	13:35:34.965						5	1	16277.	L3SM	GSM	Uplink	13:35:35.048	DCCH	ASSIGNMENT_COMPLETE	
					2332.	13:35:35.048	-94	20	27	1	0			16278,	L3SM	GSM	Uplink	13:35:35.278	SACCH	MEASUREMENT_REPORT	
					2333.	13:35:35.048						5		16279.	L3SM	GSM	Downlink	13:35:35.426	DCCH	DISCONNECT	
					2334,	13:35:35.278			(7		16280.	L3SM	GSM	Uplink	13:35:35.563	DCCH	RELEASE	
					2335,	13:35:35.758						3		16281.	L3SM	GSM	Downlink	13:35:35.702	DCCH	RELEASE_COMPLETE	
					2336,	13:35:35.882	-97	25	27	1	0			16282.	L3SM	GSM	Downlink	13:35:35.712	SACCH	SYSTEM_INFORMATION_TYPE_5	
					2337.	13:35:35.882								16283,	L3SM	GSM	Uplink	13:35:35.758	SACCH	MEASUREMENT_REPORT	
					2338.	13:35:36.803	-96	20	27	1	0			16284.	L3SM	GSM	Downlink	13:35:35.804	DCCH	CHANNEL_RELEASE	
					2339.	13:35:37.578	-97	20	27	1	0			16285.	L3SM	GSM	Downlink	13:35:36.063	CCCH	IMMEDIATE_ASSIGNMENT	
					2340.	13:35:37.915	-96	20	27	1	0			16286.	MACSM	GSM	Uplink	13:35:36.151	PACCH	PACKET_RESOURCE_REQUEST	
					2341.	13:35:38.468	-96	20	27	1	0			16287.	MACSM	GSM	Downlink	13:35:36.267	PAGCH	PACKET_UPLINK_ASSIGNMENT	
					2342.	13:35:39.060	-96	20	27	1	0			16288.	MACSM	GSM	Uplink	13:35:36.267	PACCH	PACKET_UPLINK_DUMMY_CONTROL_BLOCK	
					2343.	13:35:39.518	-96	20	27	1	0			16289,	MACSM	GSM	Downlink	13:35:36.605	PACCH	PACKET_UPLINK_ACK/NACK	
					2344.	13:35:39.927	-95	20	27	1	0			16290.	MACSM	GSM	Downlink	13:35:36.965	PACCH	PACKET_DOWNLINK_ASSIGNMENT	
					2345.	13:35:40.790	-95	20	27	1	0			16291.	MACSM	GSM	Downlink	13:35:37.084	PACCH	PACKET_POWER_CONTROL/TIMING_ADVANCE	

- This call failure event occurred on short call at 13:35:35:563 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched
 with ARFCN 20 and RF condition Rx lev -94
 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 15 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 4		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1,	12:52:31.730	GSM	900	Dro	2406.	13:36:12.156						0	16441	L3SM	GSM	Uplink	13:36:14.039	SACCH	MEASUREMENT_REPORT
2.	12:57:37.864	GSM	900	Dro	2407.	13:36:12.253	-92	20	27	1	0		16442	L3SM	GSM	Downlink	13:36:14.445	SACCH	MEASUREMENT_INFORMATION
3.	12:58:27.299	GSM	900	Dro	2408,	13:36:12.626						2	16443	L3SM	GSM	Uplink	13:36:14.510	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	2409,	13:36:12.795	-95	20	27	1	0		16444	L3SM	GSM	Downlink	13:36:14.916	SACCH	MEASUREMENT_INFORMATION
5.	13:10:06.592	UMTS FDD	2100	Tim	2410.	13:36:13.097						0	16445	L3SM	GSM	Uplink	13:36:14.980	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	2411.	13:36:13.429	-93	20	27	1	0		16446	L3SM	GSM	Downlink	13:36:15.386	SACCH	SYSTEM_INFORMATION_TYPE_5
7.	13:25:16.471	GSM	900	Dro	2412.	13:36:13.568						4	16447	L3SM	GSM	Uplink	13:36:15.451	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	2413.	13:36:13.866	-94	20	27	1	0		16448	L3SM	GSM	Downlink	13:36:15.857	SACCH	SYSTEM_INFORMATION_TYPE_STER
9.	13:27:17,882	UMTS FDD	2100	Tim	2414.	13:36:14.422	-95	20	27	1	0		16449	L3SM	GSM	Uplink	13:36:15.922	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	2415.	13:36:14.510						1	16450	L3SM	GSM	Downlink	13:36:16.328	SACCH	SYSTEM_INFORMATION_TYPE_6
11,	13:32:03.874	GSM	900	Call	2416,	13:36:14.980						0	16451	L3SM	GSM	Uplink	13:36:16.393	SACCH	MEASUREMENT_REPORT
12,	13:33:04.222	GSM	900	Tim	2417.	13:36:14.981	-91	20	27	1	0		16452	L3SM	GSM	Downlink	13:36:16.799	SACCH	MEASUREMENT_INFORMATION
13.	13:34:46.885	GSM	900	Dro	2418.	13:36:15.451						0	16453	L3SM	GSM	Uplink	13:36:16.863	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	2419.	13:36:15.922						2	16454	L3SM	GSM	Downlink	13:36:17.269	SACCH	MEASUREMENT_INFORMATION
15,	13:36:20.556	GSM	900	Dro	2420,	13:36:16.018	-91	20	27	1	0		16455	L3SM	GSM	Uplink	13:36:17.334	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	2421.	13:36:16.393						0	16456	L3SM	GSM	Downlink	13:36:17.740	SACCH	MEASUREMENT_INFORMATION
17.	13:53:46.824	UMTS FDD	2100	Dro	2422.	13:36:16,863						0	16457	L3SM	GSM	Uplink	13:36:17.805	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	2423.	13:36:16.864	-89	20	27	1	0		16458	L3SM	GSM	Downlink	13:36:18.211	SACCH	MEASUREMENT_INFORMATION
19.	14:01:17.787	UMTS FDD	2100	Call	2424.	13:36:17.334						0	16459	L3SM	GSM	Uplink	13:36:18.276	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	2425.	13:36:17.431	-90	20	27	1	0		16460	L3SM	GSM	Downlink	13:36:18.682	SACCH	MEASUREMENT_INFORMATION
					2426.	13:36:17.805						0	16461	L3SM	GSM	Uplink	13:36:18.746	SACCH	MEASUREMENT_REPORT
					2427.	13:36:17.941	-89	20	27	1	0		16462	L3SM	GSM	Downlink	13:36:19.152	SACCH	SYSTEM_INFORMATION_TYPE_5
					2428.	13:36:18.404	-85	20	27	1	0	_	16463	L3SM	GSM	Uplink	13:36:19,217	SACCH	MEASUREMENT_REPORT
					2429.	13:36:19.078	-89	20	27	1	0		16464	L3SM	GSM	Downlink	13:36:19.623	SACCH	SYSTEM_INFORMATION_TYPE_STER
					2430.	13:36:19.217	-89	20	27	1	0		16465	L3SM	GSM	Uplink	13:36:19.688	SACCH	MEASUREMENT_REPORT
					2431.	13:36:19.217						0	16466	L3SM	GSM	Downlink	13:36:20,020	DCCH	ASSIGNMENT_COMMAND
					2432.	13:36:19.688						0	16467	L3SM	GSM	Uplink	13:36:20.080	DCCH	ASSIGNMENT_COMPLETE
					2433.	13:36:20.080	-87	20	27	1	0		16468	L3SM	GSM	Uplink	13:36:20.095	SACCH	MEASUREMENT_REPORT
					2434.	13:36:20.080						0	16469	L3SM	GSM	Downlink	13:36:20.422	DCCH	DISCONNECT
					2435.	13:36:20.095		- 1				7	16470	L3SM	GSM	Downlink	13:36:20.528	SACCH	SYSTEM_INFORMATION_TYPE_5
					2436.	13:36:20.528			1			7	16471	L35M	GSM	Uplink	13:36:20.556	DCCH	RELEASE
					2437.	13:36:20.575						0	16472	L3SM	GSM	Uplink	13:36:20.575	SACCH	MEASUREMENT_REPORT
					2438.	13:36:20,789	-89	25	27	1	0		16473	L3SM	GSM	Downlink	13:36:20.700	DCCH	RELEASE_COMPLETE
					2439.	13:36:21.192							16474	L3SM	GSM	Downlink	13:36:20.801	DCCH	CHANNEL_RELEASE
					2440.	13:36:21.865	-88	20	27	1	0		16475	L3SM	GSM	Downlink	13:36:21.072	BCCH	SYSTEM_INFORMATION_TYPE_3
					2441.	13:36:22.218	-85	20	27	1	0		16476	L3SM	GSM	Downlink	13:36:21.090	CCCH	IMMEDIATE ASSIGNMENT

- This call failure event occurred on short call at 13:36:20:556 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 20 and RF condition Rx lev -95 dBm and Rx qual 7 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 16 From MS7 CWS MO

	Time	System	Serving band	1=1		1. best active RSCP	Time	Ch	SC	1. best 🔺		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	4096.	-120.2	13:45:30.781	10690	149		18677.	RRCSM	UMTS FDD	Downlink	13:45:32.918	DCCH	MEASUREMENT_CONTROL
2,	12:57:37.864	GSM	900	Dro	4097.		13:45:30.781	10690	149	-14.5	18678.	RRCSM	UMTS FDD	Downlink	13:45:32.958	DCCH	MEASUREMENT_CONTROL
3.	12:58:27.299	GSM	900	Dro	4098.	-113,4	13:45:31.221	10690	149		18679.	RRCSM	UMTS FDD	Downlink	13:45:33.118	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
4.	13:05:08,352	UMTS FDD	2100	Call	4099,	and all and a second	13:45:31.221	10690	149	-14.5	18680,	RRCSM	UMTS FDD	Uplink	13:45:33.251	DCCH	MEASUREMENT_REPORT
5,	13:10:06.592	UMTS FDD	2100	Tim	4100.	-118.2	13:45:31.851	10690	149		18681,	RRCSM	UMTS FDD	Uplink	13:45:33.311	DCCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	4101.		13:45:31.851	10690	149	-19.2	18682,	RRCSM	UMTS FDD	Uplink	13:45:33.612	DCCH	MEASUREMENT_REPORT
7.	13:25:16.471	GSM	900	Dro	4102.	-113.3	13:45:31.966	10690	149		18683.	RRCSM	UMTS FDD	Uplink	13:45:33.791	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
8.	13:26:17.099	GSM	900	Tim	4103.		13:45:31.966	10690	149	-15.2	18684.	RRCSM	UMTS FDD	Downlink	13:45:34.038	DCCH	MEASUREMENT_CONTROL
9.	13:27:17.882	UMTS FDD	2100	Tim	4104.	-114,4	13:45:32.664	10690	149		18685.	RRCSM	UMTS FDD	Downlink	13:45:34.158	DCCH	MEASUREMENT_CONTROL
10.	13:28:12.991	UMTS FDD	2100	Dro	4105.		13:45:32.664	10690	149	-16.3	18686.	RRCSM	UMTS FDD	Uplink	13:45:34.240	DCCH	MEASUREMENT_REPORT
11,	13:32:03.874	GSM	900	Call	4106.	-114,8	13:45:33.121	10690	149	-	18687.	RRCSM	UMTS FDD	Uplink	13:45:34.390	DCCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	4107.		13:45:33.121	10690	149	-16.3	18688.	RRCSM	UMTS FDD	Uplink	13:45:34.890	DCCH	MEASUREMENT_REPORT
13.	13:34:46.885	GSM	900	Dro	4108.	-121.8	13:45:33.791	10690	149	1-20900	18689.	RRCSM	UMTS FDD	Uplink	13:45:35,159	DCCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	4109.		13:45:33.791	10690	149	-22,5	18690.	RRCSM	UMTS FDD	Uplink	13:45:35.389	DCCH	MEASUREMENT_REPORT
15,	13:36:20.556	GSM	900	Dro	4110.	-121.5	13:45:34.013	10690	149		18691,	RRCSM	UMTS FOD	Uplink	13:45:35,839	DCCH	MEASUREMENT_REPORT
16.	13:45:39,006	UMTS FDD	2100	Dro	4111.		13:45:34.013	10690	149	-22.5	18692.	RRCSM	UMTS FDD	Uplink	13:45:35.889	DCCH	MEASUREMENT_REPORT
17.	13:53:46.824	UMTS FDD	2100	Dro	4112.	-124.3	13:45:34.841	10690	149		18693.	RRCSM	UMTS FDD	Uplink	13:45:36.160	DCCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	4113.		13:45:34.841	10690	149	-25.9	18694.	RRCSM	UMTS FDD	Uplink	13:45:36.389	DCCH	MEASUREMENT_REPORT
19.	14:01:17.787	UMTS FDD	2100	Call	4114.	-123.6	13:45:35.321	10690	149		18695,	RRCSM	UMTS FDD	Uplink	13:45:36.889	DCCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	4115.		13:45:35.321	10690	149	-25.2	18696,	RRCSM	UMTS FDD	Uplink	13:45:36.918	DCCH	MEASUREMENT_REPORT
- contract					4116.	-126.6	13:45:35.865	10690	149		18697.	RRCSM	UMTS FDD	Uplink	13:45:37.160	DCCH	MEASUREMENT_REPORT
					4117.	-125.9	13:45:36.379	10690	149		18698,	RRCSM	UMTS FDD	Uplink	13:45:37,389	DCCH	MEASUREMENT_REPORT
					4118.	-125.8	13:45:36.879	10690	149		18699.	RRCSM	UMTS FDD	Uplink	13:45:37.889	DCCH	MEASUREMENT_REPORT
					4119.		13:45:36.879	10690	149	-25.9	18700.	RRCSM	UMTS FDD	Uplink	13:45:38.160	DCCH	MEASUREMENT_REPORT
					4120.	-126.4	13:45:37.269	10690	149		18701.	RRCSM	UMTS FDD	Uplink	13:45:38.389	DCCH	MEASUREMENT_REPORT
					4121,	-125.5	13:45:37.879	10690	149		18702.	RRCSM	UMES FDD	Uplink	13:45:38.889	DCCH	MEASUREMENT_REPORT
					4122.		13:45:37.879	10690	149	-25.6	18703.	RRCSM	UMTS FDD	Downlink	13:45:39.624	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4123,	126.6	13:45:38:281	10690	149		18704.	RRCSM	UMTS FDD	Downlink	13:45:39.644	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4124.	-125.7	13:45:39.168	10690	149		18705.	RRCSM	UMTS FDD	Downlink	13:45:39.665	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4125.		13:45:39.168	10690	149	-25.8	18706.	RRCSM	UMTS FDD	Downlink	13:45:39.665	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					4126.	-125.7	13:45:40.053	10690	149		18707.	RRCSM	UMTS FDD	Downlink	13:45:39.685	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4127.		13:45:40.053	10690	149	-25.8	18708.	RRCSM	UMTS FDD	Downlink	13:45:39.685	BCCH	MASTER_INFORMATION_BLOCK
					4128.	-125.7	13:45:40.596	10690	149		18709.	RRCSM	UMTS FDD	Downlink	13:45:39.824	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4129,		13:45:40.596	10690	149	-25.8	18710.	RRCSM	UMTS FDD	Downlink	13:45:39,844	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4130.	-125.7	13:45:42.494	10690	149		18711.	RRCSM	UMTS FDD	Downlink	13:45:39.844	BCCH	MASTER_INFORMATION_BLOCK
					4131.		13:45:42.494	10690	149	-25.8	18712.	RRCSM	UMTS FDD	Downlink	13:45:40.104	BCCH_BCH	SYSTEM_INFORMATION_BCH

- This call failure event occurred on short call at 13:45:39:006 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 149 and RF condition RSCP -126.6 dBm and Ec/No -25.6 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 17 From MS7 CWS MO

	Time	System	Serving band	(=i		1. best active RSCP	Time	Ch	SC	1. best 🔺		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	4508.	-111.3	13:53:39.917	10690	149		20822.	RRCSM	UMTS FDD	Downlink	13:53:41.474	DCCH	MEASUREMENT_CONTROL
2,	12:57:37.864	GSM	900	Dro	4509.	- 1.185	13:53:39.917	10690	149	-13,3	20823.	RRCSM	UMTS FDD	Downlink	13:53:41.475	DCCH	MEASUREMENT_CONTROL
3,	12:58:27.299	GSM	900	Dro	4510,	-114.2	13:53:40.517	10690	149		20824.	RRCSM	UMTS FDD	Downlink	13:53:41.594	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
4.	13:05:08,352	UMTS FDD	2100	Call	4511,	Diffe	13:53:40.517	10690	149	-14,9	20825,	RRCSM	UMTS FDD	Uplink	13:53:41.676	DCCH	MEASUREMENT_REPORT
5.	13:10:06.592	UMTS FDD	2100	Tim	4512.	-112	13:53:40.944	10690	149		20826.	RRCSM	UMTS FDD	Uplink	13:53:41.778	DCCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	4513.		13:53:40.944	10690	149	-13.8	20827.	RRCSM	UMTS FDD	Downlink	13:53:41.835	DCCH	MEASUREMENT_CONTROL
7.	13:25:16.471	GSM	900	Dro	4514.	-109.7	13:53:41.198	10690	149		20828.	RRCSM	UMTS FDD	Uplink	13:53:42.307	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
8.	13:26:17.099	GSM	900	Tim	4515.		13:53:41.198	10690	149	.9,4	20829.	RRCSM	UMTS FDD	Downlink	13:53:42.554	DCCH	MEASUREMENT_CONTROL
9.	13:27:17,882	UMTS FDD	2100	Tim	4516.	-108.8	13:53:41.796	10690	149		20830.	RRCSM	UMTS FDD	Downlink	13:53:42.634	DCCH	MEASUREMENT_CONTROL
10.	13:28:12.991	UMTS FDD	2100	Dro	4517.		13:53:41.796	10690	149	-11.1	20831.	RRCSM	UMTS FDD	Uplink	13:53:42.896	DCCH	MEASUREMENT_REPORT
11,	13:32:03.874	GSM	900	Call	4518.	-103.6	13:53:42.347	10690	149		20832.	RRCSM	UMTS FDD	Uplink	13:53:43.396	DCCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	4519,		13:53:42.347	10690	149	-8.1	20833,	RRCSM	UMTS FDD	Uplink	13:53:43.896	DCCH	MEASUREMENT_REPORT
13.	13:34:46.885	GSM	900	Dro	4520.	-115.4	13:53:42.807	10690	149		20834.	RRCSM	UMTS FDD	Uplink	13:53:44.396	DCCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	4521.		13:53:42.807	10690	149	-13.1	20835.	RRCSM	UMTS FDD	Uplink	13:53:44.896	DCCH	MEASUREMENT_REPORT
15,	13:36:20.556	GSM	900	Dro	4522.	-103.6	13:53:43.507	10690	149		20836,	RRCSM	UMTS FDD	Uplink	13:53:45.296	DCCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	4523.		13:53:43.507	10690	149	-10	20837.	RRCSM	UMTS FDD	Uplink	13:53:45.396	DCCH	MEASUREMENT_REPORT
17.	13:53:46.824	UMTS FDD	2100	Dro	4524.	-123	13:53:43.796	10690	149		20838.	RRCSM	UMTS FDD	Uplink	13:53:45.706	DCCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	Nor	4525.		13:53:43.796	10690	149	-18.3	20839.	RRCSM	UMTS FDD	Downlink	13:53:45.754	DCCH	RADIO_BEARER_SETUP
19.	14:01:17.787	UMTS FDD	2100	Call	4526.	-108.2	13:53:44.516	10690	149		20840.	RRCSM	UMTS FDD	Uplink	13:53:45.896	DCCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	4527.		13:53:44.516	10690	149	-10.6	20841.	RRCSM	UMTS FDD	Uplink	13:53:46.187	DCCH	RADIO_BEARER_SETUP_COMPLETE
					4528.	-107.6	13:53:45.017	10690	149		20842.	RRCSM	UMTS FDD	Uplink	13:53:46.507	DCCH	MEASUREMENT_REPORT
					4529.		13:53:45.017	10690	149	-10.4	20843,	RRCSM	UMTS FDD	Downlink	13:53:46.507	DCCH	MEASUREMENT_CONTROL
					4530.	-116.2	13:53:45,589	10690	149		20844,	RRCSM	UMTS FDD	Downlink	13:53:46.507	DCCH	MEASUREMENT_CONTROL
					4531.		13:53:45.589	10690	149	-16.2	20845,	RRCSM	UMTS FDD	Downlink	13:53:46.595	DCCH	DOWNLINK_DIRECT_TRANSFER
					4532.	-107.4	13:53:45.862	10690	149		20846.	L3SM	UMTS FDD	Downlink	13:53:46.595	DCCH	DISCONNECT
					4533,		13:53:45.862	10690	149	-11,2	20847.	RRCSM	UMTS FDD	Uplink	13:53:46,774	DCCH	MEASUREMENT_REPORT
					4534.	-103.7	13:53;46.778	10690	149		20848.	RRCSM	UMTS FDD	Uplink	13:53:46.824	DCCH	UPLINK_DIRECT_TRANSFER
					4535,		13:53:46.778	10690	149	-11.6	20849.	LBSM	UMTS FDD	Uplink	13:53:46.824	DCCH	RELEASE
					4536.	-106	13:53:47.265	10690	149		20850.	RRCSM	UMTS FDD	Uplink	13:53:46.896	DCCH	MEASUREMENT_REPORT
					4537.		13:53:47.265	10690	149	-9.2	20851.	RRCSM	UMTS FDD	Downlink	13:53:47.194	DCCH	RADIO_BEARER_RELEASE
					4538.	-104.4	13:53:47.783	10690	149		20852.	RRCSM	UMTS FDD	Downlink	13:53:47.234	DCCH	DOWNLINK_DIRECT_TRANSFER
					4539,		13:53:47.783	10690	149	-9.7	20853.	L3SM	UMTS FDD	Downlink	13:53:47.234	DCCH	RELEASE_COMPLETE
					4540,	-111.7	13:53:48.443	10690	149		20854,	RRCSM	UMTS FDD	Uplink	13:53:47.396	DCCH	MEASUREMENT_REPORT
					4541,		13:53:48.443	10690	149	-12.3	20855.	RRCSM	UMTS FDD	Uplink	13:53:47.896	DCCH	MEASUREMENT_REPORT
					4542.	-103	13:55:19.424	10715	147	112.12	20856.	RRCSM	UMTS FDD	Uplink	13:53:47.987	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					4543.		13:55:19.424	10715	147	-8.4	20857.	RRCSM	UMTS FDD	Downlink	13:53:48.194	DCCH	RRC_CONNECTION_RELEASE

- This call failure event occurred on short call at 13:53:46:824 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 149 and RF condition RSCP -116.2 dBm and Ec/No -16.2 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Attempt Failure Analysis 18 From MS7 CWS MO

	Time	System	Serving band			Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ su 🔺	-	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	3320.	13:56:20.377						6	21279.	L3SM	GSM	Uplink	13:56:17.497	SACCH	MEASUREMENT_REPORT
2,	12:57:37.864	GSM	900	Dro	3321.	13:56:20.797	-96	25	25	1			21280.	L3SM	GSM	Uplink	13:56:17.977	SACCH	MEASUREMENT_REPORT
3.	12:58:27.299	GSM	900	Dro	3322.	13:56:20.857						4	21281.	L3SM	GSM	Uplink	13:56:18.457	SACCH	MEASUREMENT_REPORT
4.	13:05:08,352	UMTS FDD	2100	Call	3323,	13:56:21.337	-96	25	25	1			21282,	L3SM	GSM	Downlink	13:56:18.891	SACCH	MEASUREMENT_INFORMATION
5.	13:10:06.592	UMTS FDD	2100	Tim	3324.	13:56:21.337						4	21283.	L3SM	GSM	Uplink	13:56:18.937	SACCH	MEASUREMENT_REPORT
6,	13:19:26.229	GSM	900	Call	3325,	13:56:21.817	-96	25	25	1			21284.	L3SM	GSM	Downlink	13:56:19.371	SACCH	MEASUREMENT_INFORMATION
7.	13:25:16.471	GSM	900	Dro	3326.	13:56:21.817						6	21285.	L3SM	GSM	Uplink	13:56:19.417	SACCH	MEASUREMENT_REPORT
8.	13:26:17.099	GSM	900	Tim	3327.	13:56:22.297	-97	25	25	1			21286.	L3SM	GSM	Downlink	13:56:19.851	SACCH	SYSTEM_INFORMATION_TYPE_5
9.	13:27:17,882	UMTS FDD	2100	Tim	3328.	13:56:22.297						4	21287.	L3SM	GSM	Uplink	13:56:19.897	SACCH	MEASUREMENT_REPORT
10.	13:28:12.991	UMTS FDD	2100	Dro	3329.	13:56:22.777						7	21288.	L3SM	GSM	Downlink	13:56:20.331	SACCH	SYSTEM_INFORMATION_TYPE_STER
11,	13:32:03.874	GSM	900	Call	3330.	13:56:22.865	-97	25	25	1			21289.	L3SM	GSM	Uplink	13:56:20.377	SACCH	MEASUREMENT_REPORT
12.	13:33:04.222	GSM	900	Tim	3331.	13:56:23,257	-99	25	25	1			21290,	L3SM	GSM	Downlink	13:56:20.811	SACCH	SYSTEM_INFORMATION_TYPE_6
13.	13:34:46.885	GSM	900	Dro	3332,	13:56:23.257						5	21291.	L3SM	GSM	Uplink	13:56:20.857	SACCH	MEASUREMENT_REPORT
14,	13:35:35.563	GSM	900	Dro	3333,	13:56:23.737						5	21292.	L3SM	GSM	Downlink	13:56:21,291	SACCH	MEASUREMENT_INFORMATION
15,	13:36:20,556	GSM	900	Dro	3334,	13:56:24,018	-96	25	25	1			21293,	L3SM	GSM	Uplink	13:56:21.337	SACCH	MEASUREMENT_REPORT
16.	13:45:39.006	UMTS FDD	2100	Dro	3335,	13:56:24.217						5	21294.	L3SM	GSM	Downlink	13:56:21.771	SACCH	MEASUREMENT_INFORMATION
17.	13:53:46.824	UMTS FDD	2100	Dro	3336.	13:56:24.402	-96	25	25	1			21295.	L3SM	GSM	Uplink	13:56:21.817	SACCH	MEASUREMENT_REPORT
18.	13:56:25.860	GSM	900	No	3337.	13:56:24.697						6	21296.	L3SM	GSM	Downlink	13:56:22.251	SACCH	MEASUREMENT_INFORMATION
19.	14:01:17.787	UMTS FDD	2100	Call	3338.	13:56:24.866	-97	25	25	1			21297.	L3SM	GSM	Uplink	13:56:22.297	SACCH	MEASUREMENT_REPORT
20.	16:05:02.449	UMTS FDD	2100	Call	3339.	13:56:25.218	-99	25	25	1			21298.	L3SM	GSM	Uplink	13:56:22.777	SACCH	MEASUREMENT_REPORT
					3340.	13:56:25.218						6	21299.	L35M	GSM	Downlink	13:56:23.211	SACCH	MEASUREMENT_INFORMATION
					3341,	13:56:25.657						5	21300,	L3SM	GSM	Uplink	13:56:23.257	SACCH	MEASUREMENT_REPORT
					3342,	13:56:25.867	-98	25	25	1			21301.	L3SM	GSM	Downlink	13:56:23.691	SACCH	SYSTEM_INFORMATION_TYPE_5
					3343.	13:56:26.514							21302.	L3SM	GSM	Uplink	13:56:23.737	SACCH	MEASUREMENT_REPORT
					3344.	13:56:34.100						3	21303.	L3SM	GSM	Downlink	13:56:24.171	SACCH	SYSTEM_INFORMATION_TYPE_STER
					3345,	13:56:34.233	-95	21	25	1	0		21304,	L3SM	GSM	Uplink	13:56:24.217	SACCH	MEASUREMENT_REPORT
					3346,	13:56:34,571						7	21305.	L3SM	GSM	Downlink	13:56:24.651	SACCH	SYSTEM_INFORMATION_TYPE_6
					3347.	13:56:34.792	-98	21	25	1	0		21306,	L3SM	GSM	Uplink	13:56:24.697	SACCH	MEASUREMENT_REPORT
					3348.	13:56:35.041						0	21307.	L3SM	GSM	Downlink	13:56:25.131	SACCH	MEASUREMENT_INFORMATION
					3349,	13:56:35.175	-97	21	25	1	0		21308.	L3SM	GSM	Uplink	13:56:25.177	SACCH	MEASUREMENT_REPORT
					3350.	13:56:35.512						5	21309.	L3SM	GSM	Downlink	13:56:25.611	SACCH	MEASUREMENT_INFORMATION
					3351.	13:56:35.983	-98	21	25	1	0		21310.	L3SM	GSM	Uplink	13:56:25.636	DCCH	DISCONNECT
					3352.	13:56:36.454						7	21311.	L3SM	GSM	Uplink	13:56:25.657	SACCH	MEASUREMENT_REPORT
					3353.	13:56:36.867	-97	21	25	1	0		21312,	L3SM	GSM	Downlink	13:56:25.860	DCCH	RELEASE
					3354.	13:56:36.924						2	21313.	L3SM	GSM	Uplink	13:56:25.861	DCCH	RELEASE_COMPLETE
					3355.	13:56:37.146	-96	21	25	1	0		21314.	L3SM	GSM	Downlink	13:56:26.091	SACCH	MEASUREMENT_INFORMATION

- This call failure event occurred on short call at 13:56:25:860 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding " message. After that call setup has been failed.
- During the call failure, UE was latched with ARFCN 25 and RF condition Rx lev -99 dBm and Rx qual 6 dB both are poor.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-2 Call Attempt Failure Analysis 19 From MS7 CWS MO

	Time	System	Serving band	1-11		1. best active RSCP	Time	Ch	SC	1. best	•		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	4830.	-101.3	13:59:47.302	10690	147			22584.	RRCSM	UMTS FDD	Downlink	14:01:13.283	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
2.	12:57:37.864	GSM	900	Dro	4831.		13:59:47.302	10690	147	-10.9		22585.	RRCSM	UMTS FDD	Downlink	14:01:13.303	BCCH_BCH	SYSTEM_INFORMATION_BCH
3.	12:58:27.299	GSM	900	Dro	4832.	-101.3	13:59:47.332	10690	147			22586,	RRCSM	UMTS FDD	Downlink	14:01:13.323	BCCH_BCH	SYSTEM_INFORMATION_BCH
4.	13:05:08,352	UMTS FDD	2100	Call	4833,		13:59:47.332	10690	147	-10.9		22587.	RRCSM	UMTS FDD	Downlink	14:01:13.327	CCCH	RRC_CONNECTION_SETUP
5.	13:10:06.592	UMTS FDD	2100	Tim	4834.	-111.5	13:59:47.334	10690	147			22588.	RRCSM	UMTS FDD	Uplink	14:01:13.378	DCCH	RRC_CONNECTION_SETUP_COMPLETE
6,	13:19:26.229	GSM	900	Call	4835,		13:59:47.334	10690	147	-20.1		22589.	RRCSM	UMTS FDD	Uplink	14:01:13.379	DCCH	INITIAL_DIRECT_TRANSFER
7.	13:25:16.471	GSM	900	Dro	4836.	-102	14:01:13.335	10690	147			22590.	L3SM	UMTS FDD	Uplink	14:01:13.379	DCCH	CM_SERVICE_REQUEST
8.	13:26:17.099	GSM	900	Tim	4837.		14:01:13.335	10690	147	-7.6		22591.	RRCSM	UMTS FDD	Uplink	14:01:13.379	DCCH	INITIAL_DIRECT_TRANSFER
9.	13:27:17,882	UMTS FDD	2100	Tim	4838.	-102	14:01:13.866	10690	147			22592.	L3SM	UMTS FDD	Uplink	14:01:13.379	DCCH	ROUTING_AREA_UPDATE_REQUEST
10.	13:28:12.991	UMTS FDD	2100	Dro	4839.		14:01:13.866	10690	147	-10		22593.	RRCSM	UMTS FDD	Downlink	14:01:13.692	DCCH	MEASUREMENT_CONTROL
11,	13:32:03.874	GSM	900	Call	4840.	-102	14:01:14.333	10690	147			22594.	RRCSM	UMTS FDD	Downlink	14:01:13.702	DCCH	SECURITY_MODE_COMMAND
12.	13:33:04.222	GSM	900	Tim	4841.		14:01:14.333	10690	147	-6.8		22595.	RRCSM	UMTS FDD	Uplink	14:01:13.702	DCCH	SECURITY_MODE_COMPLETE
13.	13:34:46.885	GSM	900	Dro	4842.	-102	14:01:14.866	10690	147			22596.	RRCSM	UMTS FDD	Uplink	14:01:13,773	DCCH	UPLINK_DIRECT_TRANSFER
14,	13:35:35.563	GSM	900	Dro	4843,		14:01:14.866	10690	147	-5.5		22597.	LBSM	UMTS FDD	Uplink	14:01:13.773	DCCH	SETUP
15,	13:36:20.556	GSM	900	Dro	4844,	-102	14:01:15.334	10690	147			22598,	RRCSM	UMTS FDD	Downlink	14:01:13,802	DCCH	DOWNLINK_DIRECT_TRANSFER
16.	13:45:39.006	UMTS FDD	2100	Dro	4845,	01202	14:01:15.334	10690	147	-6.6		22599.	L3SM	UMTS FDD	Downlink	14:01:13.802	DCCH	TMSI_REALLOCATION_COMMAND
17.	13:53:46.824	UMTS FDD	2100	Dro	4846.	-102	14:01:15.866	10690	147			22600.	RRCSM	UMTS FDD	Uplink	14:01:13.803	DCCH	UPLINK_DIRECT_TRANSFER
18.	13:56:25.860	GSM	900	Nor	4847.		14:01:15.866	10690	147	-6.4		22601.	L3SM	UMTS FDD	Uplink	14:01:13.803	DCCH	TMSI_REALLOCATION_COMPLETE
19.	14:01:17.787	UMTS FDD	2100	Call	4848.	-102	14:01:16.524	10690	147			22602.	RRCSM	UMTS FDD	Downlink	14:01:13.942	DCCH	DOWNLINK_DIRECT_TRANSFER
20.	16:05:02.449	UMTS FDD	2100	Call	4849.		14:01:16.524	10690	147	-6.2		22603.	135M	UMITS FOD	Downlink	14:01:13.942	DCCH	CALL_PROCEEDING
					4850.	-102	14:01:16.866	10690	147			22604.	RRCSM	UMTS FDD	Uplink	14:01:17.787	DCCH	UPLINK_DIRECT_TRANSFER
					4851,		14:01:16.866	10690	147	-7,4		22605.	L3SM	UMTS FDD	Uplink	14:01:17.787	DCCH	DISCONNECT
					4852.	-82.3	14:01:17.789	10690	147			22606.	RRCSM	UMTS FDD	Uplink	14:01:17.795	DCCH	MEASUREMENT_REPORT
					4853.		14:01:17.789	10690	147	-6.3		22607.	RRCSM	UMTS FDD	Downlink	14:01:17.852	DCCH	RADIO_BEARER_SETUP
					4854.	-84.8	14:01:18.136	10690	147			22608.	RRCSM	UMTS FDD	Downlink	14:01:17.872	DCCH	DOWNLINK_DIRECT_TRANSFER
					4855,		14:01:18.136	10690	147	-6.8		22609.	L3SM	UMTS FDD	Downlink	14:01:17.872	DCCH	RELEASE
					4856,	-86.1	14:03:44.349	10715	147			22610.	RRCSM	UMTS FDD	Uplink	14:01:17.872	DCCH	UPLINK_DIRECT_TRANSFER
					4857.		14:03:44.349	10715	147	-5.3		22611.	L3SM	UMTS FDD	Uplink	14:01:17.872	DCCH	RELEASE_COMPLETE
					4858.	-96.6	14:03:44.870	10715	147			22612.	RRCSM	UMTS FDD	Downlink	14:01:17.942	DCCH	DOWNLINK_DIRECT_TRANSFER
					4859.	iure d	14:03:44.870	10715	147	-10		22613.	L3SM	UMTS FDD	Downlink	14:01:17.942	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					4860.	-94.7	14:03:45.352	10715	147			22614.	RRCSM	UMTS FDD	Uplink	14:01:17.979	DCCH	UPLINK_DIRECT_TRANSFER
					4861.		14:03:45.352	10715	147	-10.6		22615.	L3SM	UMTS FDD	Uplink	14:01:17.979	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					4862.	-94.6	14:03:45.855	10715	147			22616.	RRCSM	UMTS FDD	Uplink	14:01:18.085	DCCH	RADIO_BEARER_SETUP_COMPLETE
					4863.		14:03:45.855	10715	147	-10.1		22617.	RRCSM	UMTS FDD	Downlink	14:01:18.332	DCCH	MEASUREMENT_CONTROL
					4864.	-98.2	14:03:46.390	10715	147			22618.	RRCSM	UMTS FDD	Downlink	14:01:18.372	DCCH	MEASUREMENT_CONTROL
					4865.		14:03:46.390	10715	147	-12.9		22619.	RRCSM	UMTS FDD	Downlink	14:01:18.411	DCCH	MEASUREMENT_CONTROL

- This call failure event occurred on short call at 14:01:17:787 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 147 and RF condition RSCP -102 dBm and ECNO -7.4 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 19 From MS8 CWC MT

	1. best active RSCP	Time	Ch	SC	1. best	1		Event ID	System	Transf. dir.	Time	Subchannel	Message name
4073.		14:00:30,387	10690	147	-8.8	-	18271.	RRCSM	UMTS FDD	Downlink	14:01:16.885	BCCH_BCH	SYSTEM_INFORMATION_BCH
4074.	-107	14:00:30.878	10690	147			18272.	RRCSM	UMTS FDD	Downlink	14:01:16.885	BCCH	MASTER_INFORMATION_BLOCK
4075.		14:00:30.878	10690	147	-6,9		18273.	RRCSM	UMTS FDD	Downlink	14:01:16.885	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
4076.	-107	14:00:31.325	10690	147			18274.	RRCSM	UMTS FDD	Downlink	14:01:16.905	BCCH_BCH	SYSTEM_INFORMATION_BCH
4077.		14:00:31.325	10690	147	-5.8		18275.	RRCSM	UMTS FDD	Downlink	14:01:16.905	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
4078.	-107	14:00:31.968	10690	147			18276.	RRCSM	UMTS FDD	Downlink	14:01:16.905	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
4079.		14:00:31.968	10690	147	-9.5		18277.	RRCSM	UMTS FDD	Downlink	14:01:16.918	CCCH	RRC_CONNECTION_SETUP
4080.	-107	14:00:32.501	10690	147			18278.	RRCSM	UMTS FDD	Uplink	14:01:16.967	DCCH	RRC_CONNECTION_SETUP_COMPLETE
4081.		14:00:32.501	10690	147	-7.7		18279.	RRCSM	UMTS FDD	Uplink	14:01:16.968	DCCH	INITIAL_DIRECT_TRANSFER
4082.	-103.8	14:00:32.906	10690	147			18280.	L3SM	UMTS FDD	Uplink	14:01:16.968	DCCH	PAGING_RESPONSE
4083.		14:00:32.906	10690	147	-8,6		18281.	RRCSM	UMTS FDD	Uplink	14:01:16.968	DCCH	INITIAL_DIRECT_TRANSFER
4084.	-102.6	14:00:33,385	10690	147			18282.	L3SM	UMTS FDD	Uplink	14:01:16.968	DCCH	ROUTING_AREA_UPDATE_REQUEST
4085.	-11M2C0	14:00:33.385	10690	147	-8.4	_	18283.	RRCSM	UMTS FDD	Downlink	14:01:17.220	DCCH	MEASUREMENT_CONTROL
4086.	-110.4	14:00:33.905	10690	147			18284.	RRCSM	UMTS FDD	Downlink	14:01:17.290	DCCH	SECURITY_MODE_COMMAND
4087.		14:00:33.905	10590	147	-15.8		18285.	RRCSM	UMTS FDD	Uplink.	14:01:17.291	DCCH	SECURITY_MODE_COMPLETE
4088.	-110.4	14:00:33.977	10690	147			18286.	RRCSM	UMTS FDD	Downlink	14:01:17.380	DCCH	DOWNLINK_DIRECT_TRANSFER
4089.		14:00:33.977	10690	147	-15.8		18287.	L3SM	UMTS FDD	Downlink	14:01:17.380	DCCH	TMSI_REALLOCATION_COMMAND
4090.	-110.4	14:00:34.006	10690	147			18288.	RRCSM	UMTS FDD	Uplink	14:01:17.381	DCCH	UPLINK_DIRECT_TRANSFER
4091.		14:00:34.006	10690	147	-15.8		18289.	L3SM	UMTS FDD	Uplink	14:01:17.381	DCCH	TMSI_REALLOCATION_COMPLETE
4092.	-101.9	14:00:34.327	10690	147			18290.	RRCSM	UMTS FDD	Downlink	14:01:17.510	DCCH	DOWNUNK_DIRECT_TRANSFER
4093,	ENO.00	14:00:34.327	10690	147	-7.2		18291.	L3SM	UMTS FDD	Downlink	14:01:17.510	DCCH	SETUP
4094.	-84	14:01:16.968	10715	147			18292.	RRCSM	UMTS FDD	Uplink	14:01:17.512	DCCH	UPLINK_DIRECT_TRANSFER
4095.		14:01:16,968	10715	147	-7.5		18293.	L3SM	UMTS FDD	Uplink	14:01:17.512	DCCH	CALL_CONFIRMED
4096	-84	14:01:17.512	10715	147			18294.	RRCSM	UMTS FDD	Uplink	14:01:17.512	DCCH	UPLINK_DIRECT_TRANSFER
4097.		14:01:17.512	10715	147	-4.5		18295.	L3SM	UMTS FDD	Uplink	14:01:17.512	DCCH	ALERTING
4098.	-84	14:01:17.953	10715	147			18296.	RRCSM	UMTS FDD	Uplink	14:01:17.826	DCCH	UPLINK_DIRECT_TRANSFER
4099.		14:01:17.953	10715	147	-4.2		18297.	L3SM	UMTS FDD	Uplink	14:01:17.826	DCCH	CONNECT
4100.	-97	14:04:44.644	10690	147			18298.	RRCSM	UMTS FDD	Downlink	14:01:17.930	DCCH	RADIO_BEARER_SETUP
4101.		14:04:44.644	10690	147	-9.2		18299.	RRCSM	UMTS FDD	Downlink	14:01:17.950	DCCH	DOWNLINK_DIRECT_TRANSFER
4102.	-97	14:04:45,089	10690	147			18300.	L3SM	UMTS FDD	Downlink	14:01:17.950	DCCH	DISCONNECT
4103.		14:04:45.089	10690	147	-7.7		18301.	RRCSM	UMTS FDD	Uplink	14:01:17.951	DCCH	UPLINK_DIRECT_TRANSFER
4104.	-97	14:04:45.369	10690	147			18302.	L3SM	UMTS FDD	Uplink	14:01:17.951	DCCH	RELEASE
4105.	(a.c)	14:04:45.369	10690	147	-9.8		18303.	RRCSM	UMTS FDD	Uplink	14:01:18.615	DCCH	RADIO_BEARER_SETUP_COMPLETE
4106,	-97	14:04:45.934	10690	147			18304.	RRCSM	UMTS FDD	Downlink	14:01:18.615	DCCH	MEASUREMENT_CONTROL
4107.		14:04:45.934	10690	147	-9.3		18305.	RRCSM	LTE FDD	Downlink	14:03:58.796	BCCH-SCH	SystemInformationBlockType1
4108.	-97	14:04:46.407	10690	147			18305.	RRCSM	LTE FDD	Downlink	14:03:58.796	BCCH-SCH	Systeminformation - SIB5

- At MT side, During the setup fail, UE was latched with PSC 147 and RF condition RSCP -84 dBm and ECNO -4.5 dB both are good.
- On both MO And MT Side, RF Conditions seems OK Also there is no abnormal message regarding failure.
- Need to check from Network End.

Phase-2 Call Attempt Failure Analysis 20 From MS7 CWS MO

	Time	System	Serving band			1. best active RSCP	Time	Ch	SC	1. best	•		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:52:31.730	GSM	900	Dro	14828.	-81.8	16:04:27.378	10690	138		47	7746.	RRCSM	UMTS FDD	Downlink	16:04:59.808	BCCH_BCH	SYSTEM_INFORMATION_BCH
2,	12:57:37.864	GSM	900	Dro	14829.		16:04:27.378	10690	138	-4.7	47	7747,	RRCSM	UMTS FDD	Downlink	16:04:59.808	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_19
З.	12:58:27.299	GSM	900	Dro	14830.	-80.9	16:04:27.951	10690	138		47	7748.	RRCSM	UMTS FDD	Downlink	16:04:59.828	BCCH_BCH	SYSTEM_INFORMATION_BCH
4.	13:05:08,352	UMTS FDD	2100	Call	14831.		16:04:27.951	10690	138	-4.2	47	7749,	RRCSM	UMTS FDD	Downlink	16:04:59.831	CCCH	RRC_CONNECTION_SETUP
5.	13:10:06.592	UMTS FDD	2100	Tim	14832.	-82.6	16:04:28.478	10690	138		47	7750.	RRCSM	UMTS FDD	Uplink	16:04:59.886	DCCH	RRC_CONNECTION_SETUP_COMPLETE
6,	13:19:26.229	GSM	900	Call	14833.		16:04:28.478	10690	138	-4,2	47	7751.	RRCSM	UMTS FDD	Uplink	16:04:59.886	DCCH	INITIAL_DIRECT_TRANSFER
7.	13:25:16.471	GSM	900	Dro	14834.	-81.6	16:04:28.918	10690	138		47	7752.	L3SM	UMTS FDD	Uplink	16:04:59.886	DCCH	CM_SERVICE_REQUEST
8.	13:26:17.099	GSM	900	Tim	14835.		16:04:28.918	10690	138	-5.3	47	7753.	RRCSM	UMTS FDD	Uplink	16:04:59.887	DCCH	INITIAL_DIRECT_TRANSFER
9.	13:27:17,882	UMTS FDD	2100	Tim	14836.	-84.2	16:04:29.460	10690	138		47	7754.	L3SM	UMTS FDD	Uplink	16:04:59.887	DCCH	ROUTING_AREA_UPDATE_REQUEST
10.	13:28:12.991	UMTS FDD	2100	Dro	14837,		16:04:29.460	10690	138	-5.8	47	7755.	RRCSM	UMTS FDD	Downlink	16:05:00.199	DCCH	MEASUREMENT_CONTROL
11,	13:32:03.874	GSM	900	Call	14838.	-87	16:04:59.791	10690	138		47	7756.	RRCSM	UMTS FDD	Downlink	16:05:00.209	DCCH	SECURITY_MODE_COMMAND
12,	13:33:04.222	GSM	900	Tim	14839.		16:04:59.791	10690	138	-6.4	47	7757.	RRCSM	UMTS FDD	Uplink	16:05:00.210	DCCH	SECURITY_MODE_COMPLETE
13.	13:34:46.885	GSM	900	Dro	14840.	-87	16:05:00.325	10690	138	(VOCATO)	47	7758.	RRCSM	UMTS FDD	Uplink	16:05:00.280	DCCH	UPLINK_DIRECT_TRANSFER
14,	13:35:35.563	GSM	900	Dro	14841.		16:05:00.325	10690	138	-5.9	47	7759.	LBSM	UMTS FDD	Uplink	16:05:00.280	DCCH	SETUP
15,	13:36:20,556	GSM	900	Dro	14842.	-87	16:05:00.868	10690	138		47	7760.	RRCSM	UMTS FDD	Downlink	16:05:00.319	DCCH	DOWNLINK_DIRECT_TRANSFER
16.	13:45:39.006	UMTS FDD	2100	Dro	14843.		16:05:00.868	10690	138	-5,6	47	7761.	L3SM	UMTS FDD	Downlink	16:05:00.319	DCCH	TMSI_REALLOCATION_COMMAND
17.	13:53:46.824	UMTS FDD	2100	Dro	14844.	-87	16:05:01.335	10690	138		47	7762.	RRCSM	UMTS FDD	Uplink	16:05:00.320	DCCH	UPLINK_DIRECT_TRANSFER
18.	13:56:25.860	GSM	900	Nor	14845.		16:05:01.335	10690	138	-5.1	47	7763.	L3SM	UMTS FDD	Uplink	16:05:00.320	DCCH	TMSI_REALLOCATION_COMPLETE
19.	14:01:17.787	UMTS FDD	2100	Call	14846.	-87	16:05:01.811	10690	138		47	7764.	RRCSM	UMTS FDD	Downlink	16:05:00.439	DCCH	DOWNLINK_DIRECT_TRANSFER
20.	16:05:02.449	UMTS FDD	2100	Call	14847.		16:05:01.811	10690	138	-7.3	47	7765.	L3SM	UMTS FDD	Downlink	16:05:00.439	DCCH	CALL_PROCEEDING
					14848.	-87	16:05:02.054	10690	138		47	7766.	RRCSM	UMTS FDD	Downlink	16:05:02.449	DCCH	DOWNLINK_DIRECT_TRANSFER
					14849.		16:05:02.054	10690	138	-5.6	47	7767,	LBSM	UMTS FDD	Downlink	16:05:02.449	DCCH	DISCONNECT
					14850,	-87	16:05:02.881	10690	138		47	7768.	RRCSM	UMTS FDD	Uplink	16:05:02.450	DCCH	UPLINK_DIRECT_TRANSFER
					14851.		16:05:02.881	10690	138	-4.3	47	7769.	L3SM	UMTS FDD	Uplink	16:05:02.450	DCCH	RELEASE
					14852.	-83,4	16:05:03.338	10690	138		47	7770.	RRCSM	UMTS FDD	Downlink	16:05:02.599	DCCH	DOWNLINK_DIRECT_TRANSFER
					14853.		16:05:03.338	10690	138	-4,9	47	7771.	L3SM	UMTS FDD	Downlink	16:05:02.599	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					14854.	-83.5	16:05:03.947	10690	138		47	7772.	RRCSM	UMTS FDD	Downlink	16:05:02.599	DCCH	DOWNLINK_DIRECT_TRANSFER
					14855.		16:05:03.947	10690	138	-5.2	.47	7773.	L3SM	UMTS FDD	Downlink	16:05:02.599	DCCH	RELEASE_COMPLETE
					14856.	-82.1	16:05:04.462	10690	138		47	7774.	RRCSM	UMTS FDD	Uplink	16:05:02.636	DCCH	UPLINK_DIRECT_TRANSFER
					14857.		16:05:04.462	10690	138	-4.7	47	7775,	L3SM	UMTS FDD	Uplink	16:05:02.636	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					14858.	-80.9	16:05:04.907	10690	138		47	7776.	RRCSM	UMTS FDD	Downlink	16:05:02.659	DCCH	SIGNALLING_CONNECTION_RELEASE
					14859.		16:05:04.907	10690	138	-7	47	7777,	RRCSM	UMTS FDD	Uplink	16:05:02.660	DCCH	INITIAL_DIRECT_TRANSFER
					14860,	-85	16:05:05.467	10690	138		47	7778.	L3SM	UMTS FDD	Uplink	16:05:02.660	DCCH	LOCATION_UPDATING_REQUEST
					14861.		16:05:05.467	10690	138	-5.3	47	7779,	RRCSM	UMTS FDD	Downlink	16:05:02.779	DCCH	DOWNLINK_DIRECT_TRANSFER
					14862.	-82.7	16:05:06.064	10690	138		47	7780.	L3SM	UMTS FDD	Downlink	16:05:02.779	DCCH	IDENTITY_REQUEST
					14863,		16:05:06.064	10690	138	-4.8 _	1 47	7781.	RRCSM	UMTS FDD	Uplink	16:05:02.780	DCCH	UPLINK_DIRECT_TRANSFER

- This call failure event occurred on short call at 16:05:02:449 time when UE was latched with 3G network.
- During the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the setup fail, UE was latched with PSC 138 and RF condition RSCP -87 dBm and ECNO -5.6 dB both are good.
- Need to check MT End.

Phase-2 Call Attempt Failure Analysis 20 From MS8 CWC MT

	Time	Cell type	Band	Band (MHz)	Ch	PCI	RSRP	SNR			Event ID	System	Transf. dir.	Time	Subchannel	Message name
25062.	16:04:50.938	Serving	63	1800	1849	308	-67.8	1	-	42775,	RRCSM	LTE FDD	Uplink	16:04:31.641	DCCH	MeasurementReport
25063.	16:04:50.938							29,9		42776.	RRCSM	LTE FDD	Downlink	16:04:32.116	PCCH	Paging
25064.	16:04:51.345	Serving	B3	1800	1849	308	-67.5			42777.	RRCSM	LTE FDD	Downlink	16:04:35.956	PCCH	Paging
25065.	16:04:51.345							30		42778.	RRCSM	LTE FDD	Downlink	16:04:39.796	PCCH	Paging
25066.	16:04:51.402	Serving	83	1800	1849	308	-67.5			42779.	RRCSM	LTE FDD	Downlink	16:04:42.356	PCCH	Paging
25067.	16:04:52.788	Serving	B41	2496	39950	48	-109.4			42780.	RRCSM	LTE FDD	Downlink	16:04:43.636	PCCH	Paging
25068.	16:04:52.788							25.5		42781.	RRCSM	LTE FDD	Downlink	16:04:46.195	PCCH	Paging
25069.	16:04:53.815	Serving	841	2496	39950	48	-107.6			42782.	RRCSM	LTE FDD	Downlink	16:04:48,756	PCCH	Paging
25070.	16:04:53.815							10		42783.	RRCSM	LTE FDD	Downlink	16:04:50.036	PCCH	Paging
25071.	16:04:54.970	Serving	B41	2496	39950	48	-109.3			42784.	RRCSM	LTE FDD	Downlink	16:04:50.920	DCCH	RRCConnectionRelease
25072.	16:04:54.970							8.7		42785.	RRCSM	LTE FDD	Downlink.	16:04:51.316	PCCH	Paging
25073.	16:04:56.237	Serving	B41	2496	39950	48	-110	1200		42786.	RRCSM	LTE TOD	Downlink	16:04:52.736	BCCH-SCH	SystemInformationBlockType1
25074.	16:04:56.237							7.4		42787.	RRCSM	LTE TDD	Downlink	16:04:52.736	BCCH-SCH	SystemInformation - SIB2, SIB3
25075.	16:04:57.951	Serving	841	2496	39950	48	-109.1			42788.	RRCSM	LTE TOD	Downlink	16:04:52.736	BCCH-SCH	SystemInformation - SIB5
25076.	16:04:57.951							8.5		42789.	RRCSM	LTE TOD	Downlink	16:04:53.195	BCCH-SCH	SystemInformationBlockType1
25077.	16:04:58.874	Serving	641	2496	39950	48	-108			42790.	RRCSM	LTE TOD	Downlink	16:04:54.953	PCCH	Paging
25078.	16:04:58.874							11		42791.	RRCSM	LTE TOD	Downlink	16:04:57.513	PCCH	Paging
25079.	16:05:00.073	Serving	841	2496	39950	48	-108.1			42792.	RRCSM	LTE TOD	Downlink	16:05:01.353	PCCH	Paging
25080.	16:05:00.073							12		42793.	L35M	LTE TOD	Uplink	16:05:02.303		DETACH_REQUEST
25081.	16:05:00.077	Serving	841	2496	39950	48	-108.1			42794.	RRCSM	LTE TOD	Uplink	16:05:02.304	CCCH	RRCConnectionRequest
25082.	16:05:01.358	Serving	B41	2496	39950	48	-108.4			42795.	RRCSM	LTE TOD	Downlink	16:05:02.377	CCCH	RRCConnectionSetup
25083.	16:05:01.358							9.9	4	42796.	RRCSM	LTE TOD	Uplink	16:05:02.381	DCCH	RRCConnectionSetupComplete
25084.	16:05:02.452	Serving	841	2496	39950	48	-108.2			42797.	RRCSM	LTE FDD	Downlink	16:05:08.908	BCCH-BCH	MasterInformationBlock
25085.	16:05:02.452							11.4		42798.	RRCSM	LTE FDD	Downlink	16:05:08.932	BCCH-SCH	SystemInformationBlockType1
25086.	16:05:05.874									42799.	RRCSM	LTE FDD	Downlink	16:05:09.069	BCCH-SCH	SystemInformation - SIB2, SIB3
25087.	16:05:09.159	Serving	83	1800	1849	308	-67.8			42800.	L3SM	LTE FDD	Uplink	16:05:09.089		ATTACH_REQUEST
25088,	16:05:09.159							30		42801,	L3SM	LTE FDD	Uplink	16:05:09.089		PDN_CONNECTIVITY_REQUEST
25089.	16:05:09.651	Serving	83	1800	1849	308	-67.8			42802.	RRCSM	LTE FDD	Uplink	16:05:09.089	CCCH	RRCConnectionRequest
25090.	16:05:09.651							30		42803.	RRCSM	LTE FDD	Downlink	16:05:09.109	BCCH-SCH	SystemInformation - SIBS
25091.	16:05:10.203	Serving	83	1800	1849	308	-67.6			42804.	RRCSM	LTE FDD	Downlink	16:05:09.119	BCCH-SCH	Systeminformation - SIB5
25092.	16:05:10.203							30		42805.	RRCSM	LTE FDD	Downlink	16:05:09.148	CCCH	RRCConnectionSetup
25093.	16:05:10.736	Serving	B3	1800	1849	308	-67.6			42806.	RRCSM	LTE FDD	Uplink	16:05:09.153	DCCH	RRCConnectionSetupComplete
25094.	16:05:10.736							30		42807.	RRCSM	LTE FDD	Downlink	16:05:09.170	DCCH	DUnformationTransfer
25095.	16:05:11.213	Serving	B3	1800	1849	308	-67.6			42808.	L3SM	LTE FDD	Downlink	16:05:09.171		ESM_INFORMATION_REQUEST
25096.	16:05:11.213	6 - RS						30		42809,	L3SM	LTE FDD	Uplink	16:05:09.171		ESM_INFORMATION_RESPONSE
25097.	16:05:11.717	Serving	B3	1800	1849	308	-67.5			42810,	RRCSM	LTE FDD	Uplink	16:05:09.171	DCCH	ULInformationTransfer
25098.	16:05:11.717							30	_	42811.	RRCSM	LTE FDD	Downlink	16:05:09.236	PCCH	Paging
25099.	16:05:12.228	Serving	63	1800	1849	308	-67,4		+	42812.	RRCSM	LTE FDD	Downlink	16:05:09.388	DCCH	SecurityModeCommand

- On MT End, During the setup fail, UE was latched with PCI 48 and RF condition RSRP -108.4 dBm is poor and SNR 9.9 dB which is ok.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.

Phase-2 Call Drop Analysis 1 From MS9 Airtel MO

	Time	System	Serving band	Call t		1. best active RSCP	Time	Ch	SC.	1, best			Event ID	System	Transf. dir.	Time	Subchannel	Message name
Ę.	12:57:46.897	UMTS FDD	2100	Voice	4979.		12:57:39.697	3050	336	-20.7	- stend	2651.	RRCSM	UMTS FDD	Downlink	12:57:41.053	DCCH	MEASUREMENT_CONTROL
2.	13:01:12.553	UMTS FDD	2100	Voice	4980.	-102.1	12:57:40.205	3050	336			2652.	RRCSM	UMTS FDD	Uplink	12:57:41.237	DCCH	MEASUREMENT_REPORT
j.	13:15:28.742	GSM	900	Voice	4981.		12:57:40.205	3050	336	-22.1		2653.	RRCSM	UMTS FDD	Uplink	12:57:42.953	DCCH	MEASUREMENT_REPORT
-	1997-1996 A.A. C	1979 (SV			4982.	-101.5	12:57:40.814	3050	124			2654,	RRCSM	UMTS FDD	Uplink	12:57:45.261	DCCH	MEASUREMENT_REPORT
					4983.		12:57:40.814	3050	124	-20,5		2655.	RRCSM	UMTS FDD	Uplink	12:57:45.424	DCCH	MEASUREMENT_REPORT
					4984.	-105	12:57:41.264	3050	124			2656.	RRCSM	UMTS FDD	Downlink	12:57:45.933	DCCH	HANDOVER_FROM_UTRAN_COMMAND_GSM
					4985.		12:57:41.264	3050	124	-25.4	-	2657.	L3SM	UMTS FDD	Downlink	12:57:45.933	DCCH	HANDOVER_COMMAND
					4986,	-101.9	12:57:41.875	3050	124			2658,	L3SM	GSM	Downlink	12:57:45.961	DCCH	HANDOVER_COMMAND
					4987.	- Section 1	12:57:41.875	3050	124	-22.5		2659.	RRCSM	UMTS FDD	Downlink	12:57:46.624	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4988.	-105.5	12:57:42.306	3050	124			2660.	RRCSM	UMTS FDD	Downlink	12:57:45.644	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4989.	-103.9	12:57:42.874	3050	124			2661.	RRCSM	UMTS FDD	Downlink	12:57:46.644	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					4990.		12:57:42.874	3050	124	-24.8		2662.	RRCSM	UMTS FDD	Downlink	12:57:46.664	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4991.	-105	12:57:43.315	3050	116			2663.	RRCSM	UMTS FDD	Downlink	12:57:46.664	BCCH	MASTER_INFORMATION_BLOCK
					4992.	- 20	12:57:43.315	3050	124	-25.2		2664.	RRCSM	UMTS FDD	Downlink	12:57:46,665	BCCH_BCH	MASTER_INFORMATION_BLOCK
					4993.	-105	12:57:43.884	3050	124			2665.	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SCHEDULING_BLOCK_1
					4994.	140.450	12:57:43.884	3050	124	-25.6		2666.	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					4995.	-102.3	12:57:44.314	3050	116			2667.	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					4996,		12:57:44.314	3050	116	-22.9		2668,	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					4997.	-104.4	12:57:44.964	3050	124			2669.	RRCSM	UMTS FDD	Downlink	12:57:46,665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_11
					4998.		12:57:44.964	3050	124	-25.2		2670.	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					4999.	-104.4	12:57:45.261	3050	124			2671.	RRCSM	UMTS FDD	Downlink	12:57:46.665	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
					5000.		12:57:45.261	3050	124	-25.2		2672.	RRCSM	UMTS FDD	Downlink	12:57:46.744	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5001.	-98.6	12:57:45.404	3050	124			2673.	RRCSM	UMTS FDD	Downlink	12:57:46.744	BCCH	MASTER_INFORMATION_BLOCK
					5002.	a canaca	12:57:45.404	3050	124	-19.2		2674,	RRCSM	UMTS FDD	Uplink	12:57:46,766	CCCH	CELL_UPDATE
					5003.	-98.6	12:57:45.424	3050	124			2675.	RRCSM	UMTS FDD	Downlink	12:57:46.844	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5004.		12:57:45.424	3050	124	-19.2		2676.	RRCSM	UMTS FDD	Downlink	12:57:46.844	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5005.	-99.8	12:57:45.946	3050	116			2677.	RRCSM	UMTS FDD	Downlink	12:57:46.844	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					5006,		12:57:45.946	3050	116	-20.5		2678,	RRCSM	UMTS FDD	Downlink	12:57:46.864	CCCH	RRC_CONNECTION_RELEASE_CCCH
					5007.	-110.4	12:57:46.957	10588	336			2679.	RRCSM	UMTS FDD	Downlink	12:57:47.004	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5008.		12:57:46.957	10588	336	-13.5		2680.	RRCSM	UMTS FDD	Downlink	12:57:47.004	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5009.	-109.7	12:57:47.401	10588	336		1	2681.	RRCSM	UMTS FDD	Downlink	12:57:47.004	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					5010.		12:57:47.401	10588	336	-13.6		2682.	RRCSM	UMTS FDD	Downlink	12:57:47.024	BCCH BCH	SYSTEM INFORMATION BCH
					5011.	-113.5	12:57:48.088	10588	336			2683.	RRCSM	UMTS FDD	Downlink	12:57:47.044	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5012.	-1938P	12:57:48.088	10588	336	-17.8		2684.	RRCSM	UMTS FDD	Downlink	12:57:47.064	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5013.	-109.7	12:57:48.481	10588	336			2685.	RRCSM	UMTS FDD	Downlink	12:57:47.064	BCCH	MASTER_INFORMATION_BLOCK
					5014.	91.650	12:57:48.481	10588	336	-14		2686.	RRCSM	UMTS FDD	Downlink	12:57:47.065	BCCH BCH	MASTER INFORMATION BLOCK
					5015.	-106.8	12:57:48.878	10588	336		-	2687.	RRCSM	UMTS FDD	Downlink	12:57:47.065	BCCH BCH	SCHEDULING BLOCK 1

- This call drop event occurred on long call at 12:57:46:897 time when UE was latched with 3G network.
- After getting Alerting message at 12:56:34:134 time than Call drop happened.
- During the session UE was latched with PSC 124 and RF condition RSCP -105.5 dBm and Ec/No -22.5 dB both are poor.
- As per the analysis call failed happened due to poor coverage of the network.

Phase-2 Call Drop Analysis 2 From MS9 Airtel MO

	Time	System	Serving band	Call t		1. best active RSCP	Time	Ch	SC.	1, best			Event ID	System	Transf. dir.	Time	Subchannel	Message name
li.	12:57:46.897	UMTS FDD	2100	Voice	5415.	-102.9	13:01:02.867	3050	336			2997.	RRCSM	UMTS FDD	Downlink	13:01:12.324	BCCH_BCH	SYSTEM_INFORMATION_BCH
2.	13:01:12.553	UMTS FDD	2100	Voice	5416.		13:01:02.867	3050	336	-21.4		2998.	RRCSM	UMTS FDD	Downlink	13:01:12.404	BCCH_BCH	SYSTEM_INFORMATION_BCH
3.	13:15:28.742	GSM	900	Voice	5417.	-98.8	13:01:03.187	3050	336			2999.	RRCSM	UMTS FDD	Downlink	13:01:12.404	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
-	1997, 1998, A. C.	222.02			5418,	100000	13:01:03.187	3050	336	-19,6		3000.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5419.	-97.4	13:01:03.814	3050	336			3001.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH	MASTER_INFORMATION_BLOCK
					5420.		13:01:03.814	3050	336	-18.8		3002.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	MASTER_INFORMATION_BLOCK
					5421.	-100.6	13:01:04.227	3050	336		۵	3003.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SCHEDULING_BLOCK_1
					5422.		13:01:04.227	3050	336	-21.5		3004.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					5423,	-100.1	13:01:04.907	3050	336		Ł	3005,	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5424,		13:01:04.907	3050	336	-21		3006.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					5425.	-100.8	13:01:05.186	3050	336			3007.	RRCSM	UMTS FDD	Downlink	13:01:12.424	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
					5426.		13:01:05.186	3050	336	-21.8		3008.	RRCSM	UMTS FDD	Uplink	13:01:12.435	CCCH	CELL_UPDATE
					5427.	-100.8	13:01:05.290	3050	336			3009.	RRCSM	UMTS FDD	Downlink	13:01:12.444	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5428,		13:01:05.290	3050	336	-21.8		3010.	RRCSM	UMTS FDD	Downlink	13:01:12.444	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5429.	-106.3	13:01:05.849	3050	336			3011.	RRCSM	UMTS FDD	Downlink	13:01:12.444	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					5430.	a construction of the second sec	13:01:05.849	3050	336	-25.2		3012.	RRCSM	UMTS FDD	Downlink	13:01:12.464	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5431.	-106.3	13:01:06.878	3050	336			3013.	RRCSM	UMTS FDD	Downlink	13:01:12.484	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5432.		13:01:06.878	3050	336	-25,2		3014.	RRCSM	UMTS FDD	Downlink	13:01:12.504	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5433,	-106.3	13:01:07.439	3050	336			3015,	RRCSM	UMTS FDD	Downlink	13:01:12.504	BCCH	MASTER_INFORMATION_BLOCK
					5434,		13:01:07.439	3050	336	-25.2		3016.	RRCSM	UMTS FDD	Downlink	13:01:12.524	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5435.	-106.3	13:01:07.876	3050	336			3017.	RRCSM	UMTS FDD	Downlink	13:01:12.544	СССН	RRC_CONNECTION_RELEASE_CCCH
					5436,		13:01:07.876	3050	336	-25.2		3018.	RRCSM	UMTS FDD	Downlink	13:01:12.544	BCCH BCH	SYSTEM_INFORMATION_BCH
					5437.	-116.2	13:01:12.866	10562	336			3019.	RRCSM	UMTS FDD	Downlink	13:01:12.684	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5438,		13:01:12.866	10562	336	-17,4		3020.	RRCSM	UMTS FDD	Downlink	13:01:12.704	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5439.	-113.6	13:01:13.086	10562	336			3021.	RRCSM	UMTS FDD	Downlink	13:01:12.724	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5440.		13:01:13.086	10562	336	-15.5		3022.	RRCSM	UMTS FDD	Downlink	13:01:12.724	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					5441.	-114.5	13:01:13.788	10562	336			3023.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5442.		13:01:13.788	10562	336	-15.7		3024.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH	MASTER_INFORMATION_BLOCK
					5443,	-114.5	13:01:14.126	10562	336		ŧ.	3025,	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	MASTER_INFORMATION_BLOCK
					5444,		13:01:14.126	10562	336	-15.6		3026.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SCHEDULING_BLOCK_1
					5445.	-113.6	13:01:14.873	10562	336			3027.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					5446.		13:01:14.873	10562	336	-15.4		3028.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5447.	-119	13:01:15.126	10562	336			3029.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					5448,	- 193	13:01:15.126	10562	336	-20		3030.	RRCSM	UMTS FDD	Downlink	13:01:12.744	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
					5449.	-117.2	13:01:15.444	10562	336			3031.	RRCSM	UMTS FDD	Downlink	13:01:12.764	BCCH_BCH	SYSTEM_INFORMATION_BCH
					5450.	1410-1403-140	13:01:15.444	10562	336	-19		3032.	RRCSM	UMTS FDD	Downlink	13:01:12.764	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					5451.	-120.4	13:01:16.082	10562	336		-	3033.	RRCSM	UMTS FDD	Downlink	13:01:12.764	BCCH	SYSTEM INFORMATION BLOCK TYPE 7

- This call drop event occurred on long call at 13:01:12:553 time when UE was latched with 3G network.
- After getting Alerting message at 12:59:35:844 time than Call drop happened.
- During the session UE was latched with PSC 336 and RF condition RSCP -106.3 dBm and Ec/No -25.2 dB both are poor.
- As per the analysis call failed happened due to poor coverage of the network.

Phase-2 Call Drop Analysis 3 From MS9 Airtel MO

	Time	System	Servin		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub	•		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1	12:57:46.897	UMTS FDD	2100	1015.	13:15:18.479	-94	119	35	50000	1			5726.	L3SM	GSM	Uplink	13:15:18.036	SACCH	MEASUREMENT_REPORT
2.	13:01:12.553	UMTS FDD	2100	1016,	13:15:19.024	-95	119	35	50000	1			5727.	L3SM	GSM	Uplink	13:15:18.516	SACCH	MEASUREMENT_REPORT
З.	13:15:28.742	GSM	900	1017.	13:15:19.503	-94	119	35	50000	1			5728.	L3SM	GSM	Uplink	13:15:18.996	SACCH	MEASUREMENT_REPORT
773		Sector W		1018.	13:15:19.955	-95	119	35	50000	1			5729.	L3SM	GSM	Uplink	13:15:19.476	SACCH	MEASUREMENT_REPORT
				1019,	13:15:20.440	-93	119	35	50000	1			5730.	L3SM	GSM	Uplink	13:15:19.956	SACCH	MEASUREMENT_REPORT
				1020.	13:15:20.916	-94	119	35	50000	1			5731.	L3SM	GSM	Uplink	13:15:20.436	SACCH	MEASUREMENT_REPORT
				1021.	13:15:21.844	-94	119	35	50000	1			5732.	L3SM	GSM	Uplink	13:15:20.916	SACCH	MEASUREMENT_REPORT
				1022.	13:15:22.356	-94	119	35	50000	1			5733.	L3SM	GSM	Uplink	13:15:21.396	SACCH	MEASUREMENT_REPORT
				1023.	13:15:23.205	-94	119	35	50000	1			5734.	L3SM	GSM	Uplink	13:15:21.876	SACCH	MEASUREMENT_REPORT
				1024.	13:15:23.880	-94	119	35	50000	1			5735.	L3SM	GSM	Uplink	13:15:22.356	SACCH	MEASUREMENT_REPORT
				1025,	13:15:24.280	-95	119	35	50000	1	-	-	5736.	L3SM	GSM	Uplink	13:15:23.047	SACCH	MEASUREMENT_REPORT
				1026.	13:15:24.884	-94	119	35	50000	1			\$737.	L3SM	GSM	Uplink	13:15:23.404	SACCH	MEASUREMENT_REPORT
				1027.	13:15:25.327	-94	119	35	50000	1			5738.	L3SM	GSM	Uplink	13:15:23,880	SACCH	MEASUREMENT_REPORT
				1028.	13:15:25.927	.94	119	35	50000	1			5739.	L3SM	GSM	Uplink	13:15:24.280	SACCH	MEASUREMENT_REPORT
				1029,	13:15:26.246	-94	119	35	50000	1			5740.	L3SM	GSM	Uplink	13:15:24.760	SACCH	MEASUREMENT_REPORT
				1030.	13:15:27.159	-95	119	35	50000	1			5741.	L3SM	GSM	Uplink	13:15:25.240	SACCH	MEASUREMENT_REPORT
				1031,	13:15:27.160	-94	119	35	50000	1			5742.	L3SM	GSM	Downlink	13:15:25.673	SACCH	SYSTEM_INFORMATION_TYPE_5
				1032,	13:15:27.884	-95	119	35	50000	1			5743.	L3SM	GSM	Uplink	13:15:25.720	SACCH	MEASUREMENT_REPORT
				1033,	13:15:28.572	-95	119	35	50000	1			5744.	L3SM	GSM	Uplink	13:15:26.200	SACCH	MEASUREMENT_REPORT
				1034,	13:15:28.572								5745,	L3SM	GSM	Uplink	13:15:26.680	SACCH	MEASUREMENT_REPORT
				1035.	13:15:32.884				50000	1			5746.	L3SM	GSM	Downlink	13:15:27.113	SACCH	SYSTEM_INFORMATION_TYPE_6
				1036,	13:15:54.882				50000	1			5747.	L3SM	GSM	Uplink	13:15:27.160	SACCH	MEASUREMENT_REPORT
				1037.	13:15:55.410				50000	1			5748.	L3SM	GSM	Uplink	13:15:27.640	SACCH	MEASUREMENT_REPORT
				1038.	13:15:55.904				50000	1			5749.	L3SM	GSM	Uplink	13:15:28.120	SACCH	MEASUREMENT_REPORT
				1039.	13:15:56.553				50000	1			5750.	L3SM	GSM	Uplink	13:15:28.572	DCCH	CM_RE-ESTABLISHMENT_REQUEST
				1040,	13:15:56.882				50000	1			5751.	L3SM	GSM	Downlink	13:15:32.884	BCCH	SYSTEM_INFORMATION_TYPE_4
				1041,	13:15:57.506				50000	1			5752.	L3SM	GSM	Downlink	13:15:52.820	BCCH	SYSTEM_INFORMATION_TYPE_3
				1042.	13:15:57.879				50000	1			5753.	L3SM	GSM	Downlink	13:15:53.050	BCCH	SYSTEM_INFORMATION_TYPE_4
				1043.	13:15:58.475				50000	1			5754.	L3SM	GSM	Downlink	13:15:53.406	CCCH	PAGING_REQUEST_TYPE_1
				1044.	13:15:59.079				50000	1			5755.	L3SM	GSM	Downlink	13:15:53.526	BCCH	SYSTEM_INFORMATION_TYPE_2
				1045.	13:15:59.500				50000	1			5756,	L3SM	GSM	Downlink	13:15:54.227	BCCH	SYSTEM_INFORMATION_TYPE_1
				1046.	13:16:04.051				50000	1			5757.	L3SM	GSM	Downlink	13:15:54.246	BCCH	SYSTEM_INFORMATION_TYPE_13
				1047.	13:49:15.161	-90	95	59	62000	4			5758.	L3SM	GSM	Uplink	13:15:54.268	PDTCH	ROUTING_AREA_UPDATE_REQUEST
				1048.	13:49:15.161						5		5759.	L3SM	GSM	Downlink	13:15:54.350	CCCH	IMMEDIATE_ASSIGNMENT
				1049.	13:49:15.883	-89	95	59	62000	4	-		5760.	MACSM	GSM	Uplink	13:15:54.350	PACCH	PACKET_RESOURCE_REQUEST
				1050.	13:49:15.883						4		5761.	MACSM	GSM	Uplink	13:15:54.350	PACCH	ADDITIONAL MS RADIO ACCESS CAPABILITIES

- This call drop event occurred on long call at 13:15:28:742 time when UE was latched with 2G network.
- After getting Alerting message at 13:14:40:961 time than Call drop happened.
- During the session UE was latched with ARFCN 119 and RF condition Rx Level -95 dBm is poor and Rx Qual 0 dB which is ok.
- As per the analysis call failed happened due to poor coverage of the network.

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Phase-2 Call Drop Analysis 1 From MS11 CWS MO

Time	System	Serving band Call		1. best active RSCP	Time	Ch	SC	1. best ac		_	Event ID	System	Transf. dir.	Time	Subchannel	Message name
12:56:51.560	UMTS FDD	2100 Void	2541.	-102.2	12:56:48.882	10690	147		į.	4740.	RRCSM	UMTS FDD	Uplink	12:56:45.911	DCCH	MEASUREMENT_REPORT
			2542.		12:56:48.882	10690	147	-10.1		4741.	RRCSM	UMTS FDD	Uplink	12:56:46.411	DCCH	MEASUREMENT_REPORT
			2543,	-102.2	12:56:48.921	10690	147		4	4742.	RRCSM	UMTS FDD	Uplink	12:56:46.642	DCCH	MEASUREMENT_REPORT
			2544,		12:56:48.921	10690	147	-10.1	0	4743.	RRCSM	UMTS FDD	Uplink	12:56:46.771	DCCH	MEASUREMENT_REPORT
			2545,	-98	12:56:48.951	10690	147			4744.	RRCSM	UMTS FDD	Uplink	12:56:46.882	DCCH	MEASUREMENT_REPORT
			2546.		12:56:48.951	10690	147	-6.3	3	4745.	RRCSM	UMTS FDD	Uplink	12:56:46.921	DCCH	MEASUREMENT_REPORT
			2547.	-119.4	12:56:49.319	10690	147		3	4746.	RRCSM	UMTS FDD	Uplink	12:56:47.421	DCCH	MEASUREMENT_REPORT
			2548.		12:56:49.319	10690	147	-17.1	13	4747.	RRCSM	UMTS FDD	Uplink	12:56:47.882	DCCH	MEASUREMENT_REPORT
			2549.	-119.4	12:56:49.882	10690	147		4	4748.	RRCSM	UMTS FDD	Uplink	12:56:47.921	DCCH	MEASUREMENT_REPORT
			2550.		12:56:49.882	10690	147	-17.1		4749,	RRCSM	UMTS FDD	Uplink	12:56:48.421	DCCH	MEASUREMENT_REPORT
			2551,	-111.9	12:56:49.903	10690	147		4	4750.	RRCSM	UMTS FDD	Uplink	12:56:48.882	DCCH	MEASUREMENT_REPORT
			2552.	EUNINE.	12:56:49.903	10690	147	-10.9		4751.	RRCSM	UMTS FDD	Uplink	12:56:48.921	DCCH	MEASUREMENT_REPORT
			2553,	-111.9	12:56:49.921	10690	147		15	4752.	RRCSM	UMTS FDD	Uplink	12:56:49.421	DCCH	MEASUREMENT_REPORT
			2554,		12:56:49.921	10690	147	-10.9	3	4753,	RRCSM	UMTS FDD	Uplink	12:56:49.882	DCCH	MEASUREMENT_REPORT
			2555,	-107.1	12:56:50.319	10690	147	- 2000		4754.	RRCSM	UMTS FDD	Uplink	12:56:49.921	DCCH	MEASUREMENT_REPORT
			2556,		12:56:50.319	10690	147	-8.7	4	4755.	RRCSM	UMTS FDD	Uplink	12:56:50.421	DCCH	MEASUREMENT_REPORT
			2557.	-107.1	12:56:50.882	10690	147		3	4756.	RRCSM	UMTS FDD	Uplink	12:56:50.882	DCCH	MEASUREMENT_REPORT
			2558.		12:56:50.882	10690	147	-8.7		4757.	RRCSM	UMTS FDD	Uplink	12:56:50.921	DCCH	MEASUREMENT_REPORT
			2559,	-107.1	12:56:50.921	10690	147		5	4758.	RRCSM	UMTS FDD	Downlink	12:56:51.240	DCCH	SIGNALLING_CONNECTION_RELEASE
			2560.	and the second se	12:56:50.921	10690	147	-8.7	3	4759.	RRCSM	UMTS FDD	Uplink	12:56:51.421	DCCH	MEASUREMENT_REPORT
			2561.	-120.9	12:56:50.944	10690	147		1	4760.	RRCSM	UMTS FDD	Downlink	12:56:51.560	DCCH	RRC_CONNECTION_RELEASE
			2562,	luser	12:56:50.944	10690	147	-19.3		4761,	RRCSM	UMTS FDD	Uplink	12:56:51.560	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
			2563.	+123.6	12:56:51.676	10690	147		4	4762.	RRCSM	UMTS FDD	Uplink	12:56:51.601	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
			2564,		12:56:51.676	10690	147	-18.9	0	4763.	RRCSM	LTE FDD	Downlink	12:56:51.804	BCCH-BCH	MasterInformationBlock
			2565.	-88	12:59:31.564	10690	147		1	4764.	RRCSM	LTE FDD	Downlink	12:56:51.828	BCCH-SCH	SystemInformationBlockType1
			2566.		12:59:31.564	10690	147	-6.2		4765.	RRCSM	LTE FDD	Downlink	12:56:51.828	BCCH-SCH	SystemInformation - SIB2, SIB3
			2567.	-88	12:59:32.104	10690	147			4766.	RRCSM	LTE FDD	Downlink	12:56:51.828	BCCH-SCH	SystemInformation - SIB5
			2568.	-15.412	12:59:32.104	10690	147	-5.6	1	4767.	L3SM	LTE FDD	Uplink	12:56:51.850		TRACKING_AREA_UPDATE_REQUEST
			2569.	-88	12:59:32.501	10690	147			4768,	RRCSM	LTE FDD	Uplink	12:56:51.851	CCCH	RRCConnectionRequest
			2570,		12:59:32.501	10690	147	-4,4	3	4769.	RRCSM	LTE FDD	Downlink	12:56:51.897	CCCH	RRCConnectionSetup
			2571.	-88	12:59:33.183	10690	147		1	4770.	RRCSM	LTE FDD	Uplink	12:56:51.901	DCCH	RRCConnectionSetupComplete
			2572,		12:59:33.183	10690	147	-5.5		4771.	RRCSM	LTE FDD	Downlink	12:56:52.158	DCCH	DLInformationTransfer
			2573,	-88	12:59:33.899	10690	147		3	4772,	L3SM	LTE FDD	Downlink	12:56:52.158		TRACKING_AREA_UPDATE_ACCEPT
			2574,		12:59:33.899	10690	147	-5.2		4773.	L3SM	LTE FDD	Uplink	12:56:52.160		TRACKING_AREA_UPDATE_COMPLETE
			2575.	-88	12:59:34.203	10690	147			4774.	RRCSM	LTE FDD	Uplink	12:56:52.160	DCCH	ULInformationTransfer
			2576.		12:59:34.203	10690	147	-5.1	à	4775.	RRCSM	LTE FDD	Downlink	12:56:52.178	DCCH	RRCConnectionRelease

- This call drop event occurred on long call at 12:56:51:560 time when UE was latched with 3G network.
- After getting Alerting message at 12:56:35:001 time than Call drop happened.
- During the session UE was latched with PSC 147 and RF condition RSCP -120.9 dBm and Ec/No -19.3 dB both are poor.
- As per the analysis call failed happened due to poor coverage of the network.



THANKS