



# Landslide Release 13.0

## ODC and Sequencer

### Summary

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## ODC and Sequencer Summary

### 1 Introduction

Landslide On-demand commands (ODC) provide Landslide users with the highest degree of control over Landslide's test case execution. ODC can be used interactively through a GUI dialog when the test activity is "Command Mode." Command mode is useful for interactive functional testing and debugging of a test scenario. Note that not all test cases support command mode. On-demand commands are also supported by the Tcl interface. Using a Tcl script and ODC the user is able to script the most complex test scenarios Landslide supports.

The Command Sequencer test activity lies between Command Mode and a Tcl script in ease-of-use and test complexity. The sequencer provides a GUI based method of configuring and controlling a series of ODC that will run as a group when the test executed.

This document provides a very brief summary of the On-demand Commands available and their associated parameters. It is not a programming guide and much important information on using the commands is omitted. For detailed information on using ODC please refer to the Landslide On-line Help topic "About the Command Mode Test" or the Landslide Tcl API guide.

### 2 Generic Sequencer Commands

#### 2.1 OnDemandCommand

#### 2.2 Delay

#### 2.3 Wait

#### 2.4 SyncPoint

#### 2.5 Start Loop

#### 2.6 End Loop

#### 2.7 Auto-stop Test Case

### 3 On-demand Commands & Sequencer by Test Case

Test Case	On-demand Commands	Sequencer
DRA Node	Yes	Yes
GGSN Nodal (GPRS)	Yes	Yes
HA Nodal	Yes	Yes
HSS Node	Yes	No
IMS Node	Yes	Yes
MME Nodal	Yes	Yes
OCS Node	Yes	Yes
PCRF Node	Yes	Yes
PGW Nodal	Yes	Yes



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SGW Nodal	Yes	Yes
UMTS (SGSN Nodal)	Yes	Yes
WiFi Offload GW Nodal	Yes	Yes

## 3.1 DRA Node

### 3.1.1 Transport Loss

- rate=RATE
- start\_node=STARTING\_NODE\_INDEX
- end\_node=ENDING\_NODE\_INDEX

### 3.1.2 Communication Loss

- rate=RATE
- start\_node=STARTING\_NODE\_INDEX
- end\_node=ENDING\_NODE\_INDEX

### 3.1.3 Failover Recovery

- rate=RATE
- start\_node=STARTING\_NODE\_INDEX
- end\_node=ENDING\_NODE\_INDEX

## 3.2 GGSN Nodal (GPRS)

### 3.2.1 Reset

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

### 3.2.2 Create Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT

### 3.2.3 Delete Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT



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#### 3.2.4 Create Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT
- ENDING\_SECONDARY\_CONTEXT

#### 3.2.5 Delete Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT
- ENDING\_SECONDARY\_CONTEXT

#### 3.2.6 QOS Update Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- QOS\_UPDATE\_SET\_1\_6

#### 3.2.7 QOS Update Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT
- ENDING\_SECONDARY\_CONTEXT
- QOS\_UPDATE\_SET\_1\_6

#### 3.2.8 Handover

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- TARGET\_SGSN
- TARGET\_RNC\_BSS





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#### 3.2.9 Mobile Update

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- MOBILE\_UPDATE\_SET\_1\_10

#### 3.2.10 Tunnel Update

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- DIRECT\_TUNNEL\_1\_0
- SGSN\_ADDR\_1\_0

### 3.3 HA Nodal

#### 3.3.1 Attach

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.3.2 Detach

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.3.3 Revocation

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.3.4 Reset

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.3.5 DMU

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.3.6 Inter-PDSN Handover

- rate=RATE



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- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX
- start\_node=STARTING\_TARGET\_NODE
- end\_node=ENDING\_TARGET\_NODE

#### 3.4 HSS Node

##### 3.4.1 SCTP ACK Enable

- PATH
- INTERFACE

##### 3.4.2 SCTP ACK Disable

- PATH
- INTERFACE

##### 3.4.3 Send ISR

- rate=rate
- start\_sub=index
- end\_sub=index
- pdn\_context=index
- flags=8\_hex\_flags

##### 3.4.4 Send DSR

- rate=rate
- start\_sub=index
- end\_sub=index
- flags=8\_hex\_flags

#### 3.5 IMS Node

##### 3.5.1 Execute VoLTE Script

###### 3.5.1.1 *Scripts*

- 1/Simple Call
- 2/Place Call
- 3/End Call
- 4/Add Media
- 5/Remove media

###### 3.5.1.2 *Parameters*

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX



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- end\_sub=ENDING\_SUBSCRIBER\_INDEX

### 3.6 MME Nodal

#### 3.6.1 PDN Connect

- Parameter set 1
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - def=DEFAULT\_BEARER\_INDEX
- Parameter set 2
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - def=DEFAULT\_BEARER\_INDEX
  - mod\_apn=APN
  - mod\_pdn=PDN\_TYPE\_1\_2\_3
- Parameter set 3
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - def=DEFAULT\_BEARER\_INDEX
  - mod\_apn=APN | mod\_pdn=PDN\_TYPE\_1\_2\_3

#### 3.6.2 PDN Connect Failures

- NAS PDN Connectivity Request
- NAS Activate Default EPS Bearer Context Request
- NAS Activate Default EPS Bearer Context Accept S1-AP ERAB Setup Response

#### 3.6.3 PDN Disconnect

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX

#### 3.6.4 Emergency PDN Connect

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX

#### 3.6.5 Attach

- Parameter set 1



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- rate=rate
- start\_sub=index
- end\_sub=index
- Parameter set 2
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - mod\_pdn=PDN\_TYPE\_1\_2\_3

#### 3.6.6 Attach Failures

- NAS Attach Request
- NAS Attach Accept
- NAS Attach Complete
- NAS Authentication Request
- NAS Authentication response
- NAS Security Mode Command
- NAS Security Mode Complete
- NAS ESM Information request
- NAS ESM Information Response
- NAS Identify Request
- NAS Identity Response
- S1-AP initial Context Setup Response

#### 3.6.7 Detach

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.6.8 Reset

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.6.9 S1 Release

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.6.10 Activate Connection

- rate=rate
- start\_sub=index
- end\_sub=index



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#### 3.6.11 Emergency Attach

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.6.12 S1/IRAT Handover

- Parameter set 1
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - target\_enodeb=TARGET\_ENODEB\_INDEX
- Parameter set 2
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_node=STARTING\_TARGET\_NODE\_INDEX
  - end\_node=ENDING\_TARGET\_NODE\_INDEX
- Parameter set 3
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_node=STARTING\_TARGET\_NODE\_INDEX
  - end\_node=ENDING\_TARGET\_NODE\_INDEX
  - orig\_option=ORIG\_OPTION

#### 3.6.13 X2 Handover

- Parameter set 1
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - target\_enodeb=TARGET\_ENODEB\_INDEX
- Parameter set 2
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_node=STARTING\_TARGET\_NODE\_INDEX
  - end\_node=ENDING\_TARGET\_NODE\_INDEX

#### 3.6.14 TAU/RAU Handover

- Parameter set 1
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - target\_enodeb=TARGET\_ENODEB\_INDEX



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- Parameter set 2
  - rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_node=STARTING\_TARGET\_NODE\_INDEX
  - end\_node=ENDING\_TARGET\_NODE\_INDEX

#### 3.6.15 Activate Dedicated

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX
- ded=DEDICATED\_BEARER\_INDEX | mod\_qos\_set=QOS\_SET

#### 3.6.16 Deactivate Dedicated

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX
- ded=DEDICATED\_BEARER\_INDEX | mod\_qos\_set=QOS\_SET

#### 3.6.17 Modify Default

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX
- ded=DEDICATED\_BEARER\_INDEX | mod\_qos\_set=QOS\_SET

#### 3.6.18 Modify Dedicated

- rate=rate
- start\_sub=index
- end\_sub=index
- def=DEFAULT\_BEARER\_INDEX
- ded=DEDICATED\_BEARER\_INDEX
- mod\_qos\_set=QOS\_SET

#### 3.6.19 SMS Start

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.6.20 SMS Stop

- rate=rate



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- start\_sub=index
- end\_sub=index

#### 3.6.21 S1 Release

#### 3.6.22 Execute VoLTE Script

##### 3.6.22.1 Scripts

- 1/Simple Call
- 2/Place Call
- 3/End Call
- 4/Add Media
- 5/Remove media
- 6/Register User
- 7/Register/Auth User

##### 3.6.22.2 Parameters

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.7 OCS Node

##### 3.7.1 Send ASR

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- RATING\_GROUP\_IDS
- SERVICE\_IDS

##### 3.7.2 Send RAR

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- RATING\_GROUP\_IDS
- SERVICE\_IDS

##### 3.7.3 Transmission Loss

- RATE
- STARTING\_NODE\_INDEX
- ENDING\_NODE\_INDEX

##### 3.7.4 Communication Loss



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- RATE
  - STARTING\_NODE\_INDEX
  - ENDING\_NODE\_INDEX
- 3.7.5 Recovery
- RATE
  - STARTING\_NODE\_INDEX
  - ENDING\_NODE\_INDEX
- 3.7.6 Force Message Level Responses
- RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - RESULT\_CODE
- 3.7.7 Force MSCC Negative
- RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - RESULT\_CODE
  - STARTING\_MSCC\_INDEX
  - ENDING\_MSCC\_INDEX
- 3.7.8 Force MSCC Message Negative
- RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - RESULT\_CODE
  - STARTING\_MSCC\_INDEX
  - ENDING\_MSCC\_INDEX
- 3.7.9 Stop Forced Responses
- 3.8 PCRF Node
- 3.8.1 Install Rule
- RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - STARTING\_IPV4\_RULE\_SET
  - ENDING\_IPV4\_RULE\_SET
  - STARTING\_IPV6\_RULE\_SET
  - ENDING\_IPV6\_RULE\_SET





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- STARTING\_DS\_RULE\_SET
- ENDING\_DS\_RULE\_SET
- TRIGGER\_MASKn=VALUE

### 3.8.2 Remove Rule

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_IPV4\_RULE\_SET
- ENDING\_IPV4\_RULE\_SET
- STARTING\_IPV6\_RULE\_SET
- ENDING\_IPV6\_RULE\_SET
- STARTING\_DS\_RULE\_SET
- ENDING\_DS\_RULE\_SET

### 3.8.3 Execute Rule

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_IPV4\_RULE\_SET
- ENDING\_IPV4\_RULE\_SET
- STARTING\_IPV6\_RULE\_SET
- ENDING\_IPV6\_RULE\_SET
- STARTING\_DS\_RULE\_SET
- ENDING\_DS\_RULE\_SET

### 3.8.4 Install APN Rule

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_APN\_INDEX
- ENDING\_APN\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.5 Remove APN Rule

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_APN\_INDEX
- ENDING\_APN\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.6 Execute APN Rule



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- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_APN\_INDEX
- ENDING\_APN\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.7 Release Session

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_APN\_INDEX
- ENDING\_APN\_INDEX
- RELEASE\_CAUSE

### 3.8.8 Start Gx Monitoring

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_MONITOR\_INDEX
- ENDING\_MONITOR\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.9 Stop Gx Monitoring

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_MONITOR\_INDEX
- ENDING\_MONITOR\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.10 Request Gx Monitoring Report

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_MONITOR\_INDEX
- ENDING\_MONITOR\_INDEX
- TRIGGER\_MASKn=VALUE

### 3.8.11 Transmission Loss

- RATE
- STARTING\_NODE\_INDEX
- ENDING\_NODE\_INDEX



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#### 3.8.12 Communication Loss

- RATE
- STARTING\_NODE\_INDEX
- ENDING\_NODE\_INDEX

#### 3.8.13 Recovery

- RATE
- STARTING\_NODE\_INDEX
- ENDING\_NODE\_INDEX

#### 3.8.14 Force Negative Responses

- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- CODE\_SET\_1\_2
- RESULT\_CODE

#### 3.8.15 Stop negative responses

- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

#### 3.8.16 SCTP Ack Enable

- PATH
- INTERFACE

#### 3.8.17 SCTP Ack Disable

- PATH
- INTERFACE

### 3.9 PGW Nodal

#### 3.9.1 Attach

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.9.2 Detach

- rate=rate
- start\_sub=index
- end\_sub=index

#### 3.9.3 MME Initiated Modify Bearer

- rate=rate



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- start\_sub=index
  - end\_sub=index
- 3.9.4 HSS Initiated Modify Bearer
- rate=rate
  - start\_sub=index
  - end\_sub=index
  - def=index
- 3.9.5 UE Initiated Modify Bearer
- rate=rate
  - start\_sub=index
  - end\_sub=index
  - def=index
  - ded=index
- 3.9.6 Reset
- rate=rate
  - start\_sub=index
  - end\_sub=index
- 3.9.7 Deregister Router
- rate=rate
  - start\_sub=index
  - end\_sub=index
- 3.9.8 Revocation
- rate=rate
  - start\_sub=index
  - end\_sub=index
- 3.9.9 PDN Connect
- rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_def=index
  - end\_def=index
- 3.9.10 PDN Disconnect
- rate=rate
  - start\_sub=index
  - end\_sub=index
  - start\_def=index



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- end\_def=index

#### 3.9.11 Start Dedicated

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_def=index
- end\_def=index
- start\_ded=index
- end\_ded=index

#### 3.9.12 Stop Dedicated

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_def=index
- end\_def=index
- start\_ded=index
- end\_ded=index

#### 3.9.13 S1 Handover

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_node=index
- end\_node=index

#### 3.9.14 X2 Handover

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_node=index
- end\_node=index

#### 3.9.15 TAU Handover

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_node=index
- end\_node=index

#### 3.9.16 Start UE

- rate=rate



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- start\_sub=index
- end\_sub=index
- start\_ue=index
- end\_ue=index

#### 3.9.17 Stop UE

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_ue=index
- end\_ue=index

#### 3.9.18 Register Router

- rate=rate
- start\_sub=index
- end\_sub=index
- start\_pfx=index
- end\_pfx=index

#### 3.10 SGW Nodal

##### 3.10.1 Attach

- Parameter set 1
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
- Parameter set 2
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - MODIFY\_APN\_1\_0
  - APN
  - MODIFY\_PDN\_TYPE\_1\_0
  - PDN\_TYPE\_1\_2\_3

##### 3.10.2 Detach

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

##### 3.10.3 S1 Release

- RATE
- STARTING\_SUBSCRIBER\_INDEX



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- ENDING\_SUBSCRIBER\_INDEX
  
- 3.10.4 Handover
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  
- 3.10.5 Reset
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  
- 3.10.6 Emergency Attach
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  
- 3.10.7 Suspend
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - SUSPEND\_OPTION | RESUME\_OPTION
  
- 3.10.8 Resume
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - SUSPEND\_OPTION|RESUME\_OPTION
  
- 3.10.9 PDN Connect
  - Parameter set 1
    - RATE
    - STARTING\_SUBSCRIBER\_INDEX
    - ENDING\_SUBSCRIBER\_INDEX
    - STARTING\_DEFAULT\_BEARER\_INDEX|STARTING\_TARGET\_NODE\_INDEX
    - ENDING\_DEFAULT\_BEARER\_INDEX|ENDING\_TARGET\_NODE\_INDEX
  - Parameter set 2
    - RATE
    - STARTING\_SUBSCRIBER\_INDEX
    - ENDING\_SUBSCRIBER\_INDEX
    - STARTING\_DEFAULT\_BEARER\_INDEX
    - ENDING\_DEFAULT\_BEARER\_INDEX
    - MODIFY\_APN\_1\_0
    - APN



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- MODIFY\_PDN\_TYPE\_1\_0
- PDN\_TYPE\_1\_2\_3

#### 3.10.10 PDN Disconnect

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_DEFAULT\_BEARER\_INDEX|STARTING\_TARGET\_NODE\_INDEX
- ENDING\_DEFAULT\_BEARER\_INDEX|ENDING\_TARGET\_NODE\_INDEX

#### 3.10.11 Emergency PDN Connect

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_DEFAULT\_BEARER\_INDEX|STARTING\_TARGET\_NODE\_INDEX
- ENDING\_DEFAULT\_BEARER\_INDEX|ENDING\_TARGET\_NODE\_INDEX

#### 3.10.12 Handover

- Parameter set 1
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - STARTING\_DEFAULT\_BEARER\_INDEX|STARTING\_TARGET\_NODE\_INDEX
  - ENDING\_DEFAULT\_BEARER\_INDEX|ENDING\_TARGET\_NODE\_INDEX
- Parameter set 2
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - STARTING\_TARGET\_ENODEB\_INDEX|STARTING\_TARGET\_NODE\_INDEX
  - ENDING\_TARGET\_ENODEB\_INDEX|ENDING\_TARGET\_NODE\_INDEX
  - SGW\_RELOCATION\_ENABLED | OPTION1

#### 3.10.13 S1 Handover

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_TARGET\_ENODEB\_INDEX|STARTING\_TARGET\_NODE\_INDEX
- ENDING\_TARGET\_ENODEB\_INDEX|ENDING\_TARGET\_NODE\_INDEX
- SGW\_RELOCATION\_ENABLED | OPTION1

#### 3.10.14 X2 Handover

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX





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- STARTING\_TARGET\_ENODEB\_INDEX|STARTING\_TARGET\_NODE\_INDEX
- ENDING\_TARGET\_ENODEB\_INDEX|ENDING\_TARGET\_NODE\_INDEX
- SGW\_RELOCATION\_ENABLED | OPTION1

#### 3.10.15 TAU Handover

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_TARGET\_ENODEB\_INDEX
- ENDING\_TARGET\_ENODEB\_INDEX
- SGW\_RELOCATION\_ENABLED
- ACTIVE\_FLAG\_0\_1\_2

#### 3.10.16 Start Dedicated

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_DEFAULT\_BEARER\_INDEX
- ENDING\_DEFAULT\_BEARER\_INDEX
- STARTING\_DEDICATED\_BEARER\_INDEX
- ENDING\_DEDICATED\_BEARER\_INDEX

#### 3.10.17 Stop Dedicated

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_DEFAULT\_BEARER\_INDEX
- ENDING\_DEFAULT\_BEARER\_INDEX
- STARTING\_DEDICATED\_BEARER\_INDEX
- ENDING\_DEDICATED\_BEARER\_INDEX

#### 3.10.18 Modify Bearer

##### RATE

- Parameter set 1
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - MOD\_INITIATOR
  - MOD\_SET\_1\_10
  - DEFAULT\_BEARER\_INDEX
- Parameter set 2
  - RATE
  - STARTING\_SUBSCRIBER\_INDEX
  - ENDING\_SUBSCRIBER\_INDEX
  - MOD\_INITIATOR



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- MOD\_SET\_1\_10
- DEFAULT\_BEARER\_INDEX
- DEDICATED\_BEARER\_INDEX
- TFT\_OP\_CODE

#### 3.10.19 MME Restart

- rate=RATE
- start\_node=STARTING\_NODE\_INDEX
- end\_node=ENDING\_NODE\_INDEX

#### 3.10.20 Execute VoLTE Script

##### 3.10.20.1 *Scripts*

- 1/Simple Call
- 2/Place Call
- 3/End Call
- 4/Add Media
- 5/Remove media
- 6/Register User
- 7/Register/Auth User

##### 3.10.20.2 *Parameters*

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

#### 3.11 UMTS (SGSN Nodal)

##### 3.11.1 Attach

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

##### 3.11.2 Detach

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

##### 3.11.3 Reset

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX



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#### 3.11.4 Iu Release

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX

#### 3.11.5 Activate Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT

#### 3.11.6 Deactivate Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT

#### 3.11.7 QoS Modify Primary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- QOS\_UPDATE\_SET\_1\_2

#### 3.11.8 Activate Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT
- ENDING\_SECONDARY\_CONTEXT

#### 3.11.9 Deactivate Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT



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- ENDING\_SECONDARY\_CONTEXT

#### 3.11.10 QoS Modify Secondary

- RATE
- STARTING\_SUBSCRIBER\_INDEX
- ENDING\_SUBSCRIBER\_INDEX
- STARTING\_PRIMARY\_CONTEXT
- ENDING\_PRIMARY\_CONTEXT
- STARTING\_SECONDARY\_CONTEXT
- ENDING\_SECONDARY\_CONTEXT
- QOS\_UPDATE\_SET\_1\_2

#### 3.12 WiFi Offload GW Nodal

##### 3.12.1 Attach

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX

##### 3.12.2 Detach

- rate=RATE
- start\_sub=STARTING\_SUBSCRIBER\_INDEX
- end\_sub=ENDING\_SUBSCRIBER\_INDEX



# Landslide Release 13.0 ODC and Sequencer Summary

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## Contacting Spirent Communications

To obtain technical support for any Spirent Communications product, please contact our Support Services department using any of the following methods:

### Americas

E-mail: [support@spirent.com](mailto:support@spirent.com)

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Toll Free: +1 800-SPIRENT (+1 800-774-7368) (US and Canada)

Phone: +1 818-676-2616

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Hours: Monday through Friday, 05:30 to 18:00 Pacific Time

### Europe, Africa, Middle East

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### Asia Pacific

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Phone: 400 810 9529 (mainland China only)

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The latest versions of user manuals, application notes, and software and firmware updates are available on the Spirent Communications support website at <http://support.spirent.com>.

Information about Spirent Communications and its products and services can be found on the main company website at <http://www.spirent.com>.

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