

53- LineTest Configuration Commands

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53.1 LineTest Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "LineTest Configuration Commands".

Command Tree

```

----configure
  ----linetest
    ----cluster
      - (cluster-id)
      ----ltsession
        - (sessionid)
        - session-cmd
        - ownerid
        - timeout-period
        - line-num
        - type-high
        - type-low
        - test-parm-num
        - test-mode
        - type-extend
      ----ltline
        - (sessionid)
        - lineid
        - line-status
      ----ltparm
        - (sessionid)
        - test-name(unit)
        - value1
        - value2
        - value3
        - value4
        - value5
        - min-threshold
        - max-threshold
        - min-threshold2
        - max-threshold2
        - ltstrvalue1
    ----single
      ----ltsession
        - (sessionid)
        - session-cmd
        - ownerid
        - timeout-period
        - line-num
        - type-high
        - type-low
        - test-parm-num
        - test-mode
        - inactive-timer
        - type-extend

```

- [no] group-opt
- [no] busy-overwrite
- [no] force-measure

----ltline

- (sessionid)
- lineid
- line-status

----ltparm

- (sessionid)
- test-name(unit)
- value1
- value2
- value3
- value4
- value5
- min-threshold
- max-threshold
- min-threshold2
- max-threshold2
- ltstrvalue1

53.2 Megaco LineTest Session Configuration Command

Command Description

This command allows the operator to configure the MEGACO LineTest session parameters.

User Level

The command can be accessed by operators with megaco privileges, and executed by operators with megaco privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest cluster (cluster-id) Itsession (sessionid) [ session-cmd <LineTest::SessCmdForConfig> ] [
ownerid <Gauge> ] [ timeout-period <LineTest::TimeOutPerVoice> ] [ line-num <LineTest::LineNum> ] [
type-high <LineTest::ltTypeHigh> ] [ type-low <LineTest::ltTypeLow> ] [ test-parm-num
<LineTest::TestParmNum> ] [ test-mode <LineTest::TestModeForConfig> ] [ type-extend
<LineTest::ltTypeExtend> ]
```

Command Parameters

Table 53.2-1 "Megaco LineTest Session Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(cluster-id)	Format: - the xvps cluster id - range: [1...8,11]	uniquely identify of this xvps cluster
(sessionid)	Format: - available session id - range: [1]	uniquely identify of session

Table 53.2-2 "Megaco LineTest Session Configuration Command" Command Parameters

Parameter	Type	Description
session-cmd	Parameter type: <LineTest::SessCmdForConfig> Format: (create starttest sendinfo startinfo destroy recv-subtest start-subtest repeat endtest) Possible values:	<i>optional parameter</i> the linetest session command

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Parameter	Type	Description
	<ul style="list-style-type: none"> - create : create a test session - starttest : transfer data done, start a test - sendinfo : start to transfer info data for an underway test - startinfo : transfer info data done, start info operation - destroy : destroy a test session - recv-subtest : start to transfer the sub-test's data - start-subtest : transfer sub-test's data done, start the sub-test - repeat : repeat the last test - endtest : end current test session 	
ownerid	Parameter type: <Gauge> Format: - gauge	<i>optional parameter</i> ownerid of the session
timeout-period	Parameter type: <LineTest::TimeOutPerVoice> Format: - allows to set the whole test timer including all test \r\nitems of all lines for the session. Should be larger \r\nthan or equal to the sum of all lines' limited time plus\r\nline test management time <2s>. Each line's limited time\r\nis the sum of all the test items' limited time in this \r\nline. There are two exceptions: a) cable-pair-ident,\r\nwhich uses a fixed limitation 65~5400s;\r\nb) diagnosis-call, which uses a fixed limitation 42~120s.\r\nTest items' limited time(second):\r\n test type time \r\n- type-high\r\n group 20 \r\n feeded-ac-vol 3 \r\n foreign-ac-vol 10 \r\n feeded-dc-vol 3 \r\n foreign-dc-vol 15 \r\n feeding-current 3 \r\n resistance 6 \r\n capacitance 15 \r\n impedance 5 \r\n low-capacit-phone 20 \r\n force-ring-subscrib 120 \r\n dialton-delay 8 \r\n msocket-detection 6 \r\n- type-low\r\n ac-current 66 \r\n dc-current 66 \r\n noise-level 66 \r\n howler 120 \r\n status-monitored 3 \r\n talking-father 3 \r\n line-reverse-sub 60 \r\n p-meter-pulse-sub 6 \r\n ring-subscrib-sub 60 \r\n dpdtmf-signal-sub 60 \r\n userloop-sub 6 \r\n isdn-loopback 20 \r\n diagnosis-caller N/A \r\n diagnosis-callee N/A \r\n- type-extend\r\n gr909-ringer 20 \r\n gr909-dialtone-d 8 \r\n gr909-roh 20 \r\n gr909-hazardous-p 20 \r\n gr909-femf 20 \r\n gr909-resistive-f 20 - unit: second - range: [2...4294967295]	<i>optional parameter</i> timeout period
line-num	Parameter type: <LineTest::LineNum> Format: - line number in the session of test - range: [1...72]	<i>optional parameter</i> line number in the session of test
type-high	Parameter type: <LineTest::ltTypeHigh> Format: (none group feeded-ac-vol foreign-ac-vol feeded-dc-vol foreign-dc-vol feeding-current resistance capacitance impedance	<i>optional parameter</i> indicate line test items

Parameter	Type	Description
	low-capacit-phone force-ring-subscrib dialton-delay msocket-detection) Possible values: - none : null - group : group test, see group-opt argument for the content of the group test - feeded-ac-vol : feeded ac rms voltage test, HBit31/30/29 - foreign-ac-vol : foreign ac rms voltage test, HBit26/27/28 - feeded-dc-vol : feeded dc voltage test, HBit18/23/24/25 - foreign-dc-vol : foreign dc voltage test, HBit20/21/22 - feeding-current : feeding current test, HBit19 - resistance : insulating resistance test, HBit12/13/14/15/16/17(ISDN line test only support HBit14/15/16/17) - capacitance : capacitance test, HBit8/9/10/11 - impedance : impedance test, HBit4/5/6/7 - low-capacit-phone : low capacitance phone detect test, HBit3 - force-ring-subscrib : force ring subscriber test, HBit2 - dialton-delay : dial tone delay test of user circuit only in idle , HBit1 - msocket-detection : termination (m socket detection) test, HBit0	
type-low	Parameter type: <LineTest::ltTypeLow> Format: (none ac-current dc-current noise-level howler status-monitored cable-pair-ident talking-father line-reverse-sub p-meter-pulse-sub ring-subscrib-sub dpdtmf-signal-sub userloop-sub isdn-loopback diagnosis-caller diagnosis-callee) Possible values: - none : null - ac-current : ac current test normal test, LBit29/30/31 - dc-current : dc current test normal test, LBit28/27/26 - noise-level : noise level normal test, LBit24 - howler : howler test under normal test, LBit22 - status-monitored : status monitored test, LBit20 - cable-pair-ident : cable pair identification test, LBit19 - talking-father : talking test (father test item), LBit18 - line-reverse-sub : line reverse test, subtest of talking test, LBit17 - p-meter-pulse-sub : private meter pulses test, subtest of talking test, LBit16 - ring-subscrib-sub : ring subscriber with auto ring test,	<i>optional parameter</i> indicate line test items

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Parameter	Type	Description
	subtest of talking test, LBit15 - dpdtmf-signal-sub : dp/dtmf signal test, subtest of talking test, LBit14 - userloop-sub : resistance of user loop (tip-ring), subtest of talking test, LBit13 - isdn-loopback : isdn loop back test, LBit10 - diagnosis-caller : H248 Voice Diagnosis Caller test, LBit8 - diagnosis-callee : H248 Voice Diagnosis Callee test, LBit7	
test-parm-num	Parameter type: <LineTest::TestParmNum> Format: - parameter lines number in the session of test - range: [0...6]	<i>optional parameter</i> parameter lines number in the session for test
test-mode	Parameter type: <LineTest::TestModeForConfig> Format: (single interactive cablepair) Possible values: - single : the test will be end after one time - interactive : the interactive test - cablepair : the cable pair test	<i>optional parameter</i> test mode
type-extend	Parameter type: <LineTest::LtTypeExtend> Format: (none gr909-ringers gr909-dialtone-d gr909-roh gr909-hazardous-p gr909-femf gr909-resistive-f diagnosis-call) Possible values: - none : null - gr909-ringers : ringers test, ExBit26 - gr909-dialtone-d : draw and break dial tone delay test, ExBit25 - gr909-roh : receiver off hook test, ExBit24 - gr909-hazardous-p : hazardous potential test, ExBit23, - gr909-femf : foreign electromotive force test, ExBit22 - gr909-resistive-f : resistive faults test, ExBit21 - diagnosis-call : diagnosis call test, ExBit14	<i>optional parameter</i> indicate line test items

53.3 Megaco LineTest Line Configuration Command

Command Description

This command allows the operator to configure the MEGACO LineTest line parameters.

User Level

The command can be accessed by operators with megaco privileges, and executed by operators with megaco privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest cluster (cluster-id) ltline (sessionid) lineid <Itf::LineTestMegacoLineId> [ line-status <LineTest::LineStatusForConfig> ]
```

Command Parameters

Table 53.3-1 "Megaco LineTest Line Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(cluster-id)	Format: - the xvps cluster id - range: [1...8,11]	uniquely identify of this xvps cluster
(sessionid)	Format: - available session id - range: [1]	uniquely identify of session
lineid	Parameter type: <Itf::LineTestMegacoLineId> Format: <Eqpt::NodeId> / <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::NewSlotId> / <Eqpt::MegacoPortId> Field type <Eqpt::NodeId> - the Node number Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::NewSlotId> - the LT slot number Field type <Eqpt::MegacoPortId> - the port number of Megaco	Identify of line

Table 53.3-2 "Megaco LineTest Line Configuration Command" Command Parameters

Parameter	Type	Description
line-status	Parameter type: <LineTest::LineStatusForConfig>	<i>optional parameter</i>

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Parameter	Type	Description
	Format: (intest testover rstpartlyready) Possible values: - intest : put the line in test - testover : the line tested, and the result is ready for polling, it is read-only - rstpartlyready : defined for dp/dtmf test	status of line for test

53.4 MEGACO LineTest Param Configuration Command

Command Description

This command allows the operator to manage megaco linetest parameters.

User Level

The command can be accessed by operators with megaco privileges, and executed by operators with megaco privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest cluster (cluster-id) ltparm (sessionid) test-name(unit) <LineTest::TestTypeMegaco> [ value1
<LineTest::ParaValue1Voice> ] [ value2 <LineTest::ParaValue2Voice> ] [ value3 <LineTest::ParaValue3Voice> ]
[ value4 <LineTest::ParaValue4Voice> ] [ value5 <LineTest::ParaValue5Voice> ] [ min-threshold
<LineTest::TestThreshold> ] [ max-threshold <LineTest::TestThreshold> ] [ min-threshold2
<LineTest::TestThreshold> ] [ max-threshold2 <LineTest::TestThreshold> ] [ ltstrvalue1
<LineTest::ParaStringValueString> ]
```

Command Parameters

Table 53.4-1 "MEGACO LineTest Param Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(cluster-id)	Format: - the xvps cluster id - range: [1...8,11]	uniquely identify of this xvps cluster
(sessionid)	Format: - available session id - range: [1]	uniquely identify of session
test-name(unit)	Parameter type: <LineTest::TestTypeMegaco> Format: (feeded-ac-tr(mv) feeded-ac-tg(mv) feeded-ac-rg(mv) foreign-ac-tr(mv) foreign-ac-tg(mv) foreign-ac-rg(mv) feeded-dc-tr(mv) foreign-dc-tr(mv) foreign-dc-tg(mv) foreign-dc-rg(mv) feed-current(ua) feeded-dc-rt(mv)	test type

Resource Identifier	Type	Description
	resist-tr(ohm) resist-rt(ohm) resist-tg(ohm) resist-rg(ohm) resist-tbat(ohm) resist-rbat(ohm) capacitanc-tr(nf) capacitanc-rt(nf) capacitanc-tg(nf) capacitanc-rg(nf) impedance-tr(ohm) impedance-tg(ohm) impedance-rg(ohm) low-capacit-phone force-ring-subscrib dialton-delay(ms) msocket-detection ac-current-tr(ua) ac-current-tg(ua) ac-current-rg(ua) dc-current-tr(ua) dc-current-tg(ua) dc-current-rg(ua) noise-lv-0.001dbm howler-test-park status-monitored cable-pair-ident talking-father line-reverse-sub p-meter-pulse-sub ring-subscrib-sub dpdtmf-signal-sub userloop-sub(ohm) feeded-dc-tg(mv) feeded-dc-rg(mv) impedance-rt(ohm) isdn-loopback ringer-ren(mren) dialtone-delay-db(ms) gr909-roh gr909-hazardous-p gr909-femf gr909-resistive-f diagnosis-call(1/10s) Possible values: - feeded-ac-tr(mv) : feeded ac rms voltage of user line (tip-ring) - feeded-ac-tg(mv) : feeded ac rms voltage of user line (tip-ground) - feeded-ac-rg(mv) : feeded ac rms voltage of user line (ring-ground) - foreign-ac-tr(mv) : foreign ac rms voltage of user line (tip-ring) - foreign-ac-tg(mv) : foreign ac rms voltage of user line (tip-ground) - foreign-ac-rg(mv) : foreign ac rms voltage of user line (ring-ground)	

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - feeded-dc-tr(mv) : feeded dc voltage of user line (tip-ring) - foreign-dc-tr(mv) : foreign dc voltage of user line (tip-ring) - foreign-dc-tg(mv) : foreign dc voltage of user line (tip-ground) - foreign-dc-rg(mv) : foreign dc voltage of user line (ring-ground) - feed-current(ua) : feeding current (tip-ring) - feeded-dc-rt(mv) : feeded dc voltage of user line (ring-tip) - resist-tr(ohm) : insulating resistance of user line (tip-ring) - resist-rt(ohm) : insulating resistance of user line (ring-tip) - resist-tg(ohm) : insulating resistance of user line (tip-ground) - resist-rg(ohm) : insulating resistance of user line (ring-ground) - resist-tbat(ohm) : insulating battery resistance of user line (tip-bat) - resist-rbat(ohm) : insulating battery resistance of user line (ring-bat) - capacitanc-tr(nf) : capacitance of user line (tip-ring) - capacitanc-rt(nf) : capacitance of user line (ring-tip) - capacitanc-tg(nf) : capacitance of user line (tip-ground) - capacitanc-rg(nf) : capacitance of user line (ring-ground) - impedance-tr(ohm) : impedance of user circuit (tip-ring) - impedance-tg(ohm) : impedance of user circuit (tip-ground) - impedance-rg(ohm) : impedance of user circuit (ring-ground) - low-capacit-phone : low capacitance phone detect - force-ring-subscrib : force ring subscriber test - dialton-delay(ms) : dial tone delay of user circuit only in idle - msocket-detection : termination (m socket detection) - ac-current-tr(ua) : ac current test normal test (tip-ring) - ac-current-tg(ua) : ac current test normal test (tip-ground) - ac-current-rg(ua) : ac current test normal test (ring-ground) - dc-current-tr(ua) : dc current test normal test (tip-ring) - dc-current-tg(ua) : dc current test normal test (tip-ground) - dc-current-rg(ua) : dc current test normal test (ring-ground) - noise-lv-0.001dbm : noise level normal test - howler-test-park : howler test under normal test condition only in parking - status-monitored : status monitored test - cable-pair-ident : cable pair identification test - talking-father : talking test (father test item) - line-reverse-sub : line reverse test, subtest of talking test - p-meter-pulse-sub : private meter pulses test, subtest of talking test - ring-subscrib-sub : ring subscriber with auto ring test, subtest of talking test - dpdtmf-signal-sub : dp/dtmf signal test, subtest of talking test - userloop-sub(ohm) : resistance of user loop (tip-ring), subtest of talking test - feeded-dc-tg(mv) : feeded dc voltage of user line (tip-ground) - feeded-dc-rg(mv) : feeded dc voltage of user line (ring-ground) 	

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - impedance-rt(ohm) : impedance of user circuit (ring-tip) - isdn-loopback : isdn loop back test - ringer-ren(mren) : gr909 ringer equivalency number testing - dialtone-delay-db(ms) : gr909 draw and break dial tone delay testing - gr909-roh : gr909 receiver off hook testing - gr909-hazardous-p : gr909 Hazardous Potential testing - gr909-femf : gr909 Foreign ElectroMotive Force testing - gr909-resistive-f : gr909 resistive faults testing - diagnosis-call(1/10s) : diagnosis call test 	

Table 53.4-2 "MEGACO LineTest Param Configuration Command" Command Parameters

Parameter	Type	Description
value1	<p>Parameter type: <LineTest::ParaValue1Voice> Format:</p> <ul style="list-style-type: none"> - parameter value required for the execution of the \r\nspecified test type.\r\n<resistance tr/rt(ohm)>:\r\n <p>Meaning: allows to configure whether it is required \r\n to test the 'signature' or not.\r\n Applicability : MELT only.\r\n Range: No(0) Yes(1)\r\n Default: No(0)\r\n <impedance tr/tg/rg(ohm)>:\r\n Meaning: allows to configure the frequency the test \r\n must run with.\r\n Range: 5~3000\r\n Default: 20 Unit: Hz\r\n <status-monitored>:\r\n Meaning: allows to configure whether to check real \r\n parking or short current state.\r\n Range: No(1) Yes(2)\r\n No default value.\r\n <cable-pair-ident>:\r\n Meaning: allows to configure the frequency the test \r\n must run with.\r\n Applicability : MELT only.\r\n Range: 300~3400\r\n Default: 800 Unit: Hz\r\n For SHDSL, only 800 Hz (default) and 1000 Hz are \r\n supported.\r\n <p-meter-pulse-sub>:\r\n Meaning: allows to configure the metering mode.\r\n Range: 1 TAPI_METER_MODE_TTX\r\n 2 TAPI_METER_MODE_REVPOL\r\n No default value.\r\n <dptdmf-signal-sub>:\r\n Meaning: allows to configure the number of signals \r\n to be gathered.\r\n Range: 1~20\r\n No default value.\r\n <isdn-loopback>:\r\n Meaning: allows to configure the testside.\r\n Range: 1 LoopbackOnNTSide\r\n 2 LoopbackOnLtSide\r\n 3 LoopbackBothSide</p>	<p><i>optional parameter</i> test parameter value1</p>
value2	<p>Parameter type: <LineTest::ParaValue2Voice> Format:</p> <ul style="list-style-type: none"> - parameter value required for the execution of the \r\nspecified test type.\r\n<impedance tr/tg/rg(ohm)>:\r\n <p>Meaning: allows to configure the RMS voltage level.\r\n Range: -150~+150\r\n Default: 15 Unit: V\r\n <cable-pair-ident>:\r\n Meaning: allows to configure the power level.\r\n Applicability : MELT only.\r\n Range: -600~0\r\n For XDSL, range is -600~-160\r\n For SHDSL, range is -340~-40\r\n Default: -160 Unit: 0.1 dbm</p>	<p><i>optional parameter</i> test parameter value2</p>
value3	<p>Parameter type: <LineTest::ParaValue3Voice> Format:</p> <ul style="list-style-type: none"> - parameter value3 is actually not used 	<p><i>optional parameter</i> test parameter value3</p>
value4	<p>Parameter type: <LineTest::ParaValue4Voice> Format:</p> <ul style="list-style-type: none"> - parameter value4 is actually not used 	<p><i>optional parameter</i> test parameter value4</p>

Parameter	Type	Description
value5	Parameter type: <LineTest::ParaValue5Voice> Format: - parameter value5 is actually not used	<i>optional parameter</i> test parameter value5
min-threshold	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold min of this test type
max-threshold	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold max of this test type
min-threshold2	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold2 min of this test type
max-threshold2	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold2 max of this test type
ltstrvalue1	Parameter type: <LineTest::ParaStringValueString> Format: - string parameter value required for the execution of the \\r\\nspecified test type.\\r\\n<diagnosis-call(1/10s)>:\\r\\n Meaning: allows to configure destination number.\\r\\n Applicability: NBLT only.\\r\\n Range: 0~9, *, #.\\r\\n No default value.\\r\\n Length: 1~16.	<i>optional parameter</i> test parameter string value1

53.5 SINGLE LineTest Session Configuration Command

Command Description

This command allows the operator to configure the single LineTest session parameters.

User Level

The command can be accessed by operators with sip , xdsl privileges, and executed by operators with sip , xdsl privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest single ltsession (sessionid) [ session-cmd <LineTest::SessCmdForConfig> ] [ ownerid
<Gauge> ] [ timeout-period <LineTest::TimeOutPerSip> ] [ line-num <LineTest::LineNum> ] [ type-high
<LineTest::ltTypeHigh> ] [ type-low <LineTest::ltTypeLowSip> ] [ test-param-num <LineTest::TestParmNum> ] [
test-mode <LineTest::TestModeForConfig> ] [ inactive-timer <LineTest::InactTimer> ] [ type-extend
<LineTest::ltTypeExtendSip> ] [ no group-opt | group-opt <LineTest::ltGroupTestOpt> ] [ no busy-overwrite |
busy-overwrite <LineTest::ltBusyOverwriteFlag> ] [ no force-measure | force-measure <LineTest::ForceMeasure>
]
```

Command Parameters

Table 53.5-1 "SINGLE LineTest Session Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(sessionid)	Format: - available session id - range: [1...16]	uniquely identify of session

Table 53.5-2 "SINGLE LineTest Session Configuration Command" Command Parameters

Parameter	Type	Description
session-cmd	Parameter type: <LineTest::SessCmdForConfig> Format: (create starttest sendinfo startinfo destroy recv-subtest start-subtest repeat endtest) Possible values: - create : create a test session	<i>optional parameter</i> the linetest session command

Parameter	Type	Description
	<ul style="list-style-type: none"> - starttest : transfer data done, start a test - sendinfo : start to transfer info data for an underway test - startinfo : transfer info data done, start info operation - destroy : destroy a test session - recv-subtest : start to transfer the sub-test's data - start-subtest : transfer sub-test's data done, start the sub-test - repeat : repeat the last test - endtest : end current test session 	
ownerid	Parameter type: <Gauge> Format: - gauge	<i>optional parameter</i> ownerid of the session
timeout-period	Parameter type: <LineTest::TimeOutPerSip> Format: - allows to set the whole test timer including all test \r\nitems of all lines for the session. Should be larger \r\nthan or equal to the sum of all lines' limited time plus\r\nline test management time <2s>. Each line's limited time\r\nis the sum of all the test items' limited time in this \r\nline. There are two exceptions: a) cable-pair-ident,\r\nwhich uses a fixed limitation 60~5400s;\r\nb) diagnosis-call, which uses a fixed limitation 42~120s.\r\nTest items' limited time(second):\r\n test type POTS MELT \r\n- type-high\r\n group 20 18 \r\n feeded-ac-vol 3 N/A \r\n foreign-ac-vol 10 5 \r\n feeded-dc-vol 3 N/A \r\n foreign-dc-vol 15 5 \r\n feeding-current 3 N/A \r\n resistance 6 18 \r\n capacitance 15 18 \r\n impedance 5 N/A \r\n low-capacit-phone 20 N/A \r\n force-ring-subscrib 120 N/A \r\n dialton-delay 8 N/A \r\n msocket-detection 6 N/A \r\n- type-low\r\n ac-current 66 N/A \r\n dc-current 66 N/A \r\n noise-level 66 N/A \r\n howler 120 N/A \r\n status-monitored 3 N/A \r\n talking-father 3 N/A \r\n line-reverse-sub 60 N/A \r\n p-meter-pulse-sub 6 N/A \r\n ring-subscrib-sub 60 N/A \r\n dpdtmf-signal-sub 60 N/A \r\n userloop-sub 6 N/A \r\n etsi-signature N/A 18 \r\n electronic-ringer 10 N/A \r\n longitudinal-current 3 N/A \r\n conductance 8 20 \r\n susceptance 8 20 \r\n iltf-hazardous-voltage 30 20 \r\n- type-extend\r\n iltf-term-signature N/A 20 \r\n iltf-term-capacitiv 15 20 \r\n iltf-ppa-test 15 20 \r\n roh-test 8 20 \r\n gr909-ringer 20 N/A \r\n gr909-dialtone-d 8 N/A \r\n gr909-roh 20 N/A \r\n gr909-hazardous-p 20 N/A \r\n gr909-femf 20 N/A \r\n gr909-resistive-f 20 N/A \r\n iltf-term-ringer 10 N/A \r\n zener-res-volt 8 20 \r\n isdn-pra-remotelb 2 N/A \r\n isdn-pra-ploadlb 2 N/A \r\n isdn-pra-locallb 4 N/A \r\n isdn-pra-cablelb 2 N/A \r\n cas-r2-remotelb 2 N/A \r\n cas-r2-ploadlb 2 N/A \r\n cas-r2-locallb 4 N/A \r\n cas-r2-cablelb 2 N/A - unit: second - range: [2...4294967295]	<i>optional parameter</i> timeout period
line-num	Parameter type: <LineTest::LineNum> Format: - line number in the session of test - range: [1...72]	<i>optional parameter</i> line number in the session of test (Max line number depends on the physical line number of the device)
type-high	Parameter type: <LineTest::ltTypeHigh>	<i>optional parameter</i>

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Parameter	Type	Description
	<p>Format:</p> <p>(none group feeded-ac-vol foreign-ac-vol feeded-dc-vol foreign-dc-vol feeding-current resistance capacitance impedance low-capacit-phone force-ring-subscrib dialton-delay msocket-detection)</p> <p>Possible values:</p> <ul style="list-style-type: none"> - none : null - group : group test, see group-opt argument for the content of the group test - feeded-ac-vol : feeded ac rms voltage test, HBit31/30/29 - foreign-ac-vol : foreign ac rms voltage test, HBit26/27/28 - feeded-dc-vol : feeded dc voltage test, HBit18/23/24/25 - foreign-dc-vol : foreign dc voltage test, HBit20/21/22 - feeding-current : feeding current test, HBit19 - resistance : insulating resistance test, HBit12/13/14/15/16/17(ISDN line test only support HBit14/15/16/17) - capacitance : capacitance test, HBit8/9/10/11 - impedance : impedance test, HBit4/5/6/7 - low-capacit-phone : low capacitance phone detect test, HBit3 - force-ring-subscrib : force ring subscriber test, HBit2 - dialton-delay : dial tone delay test of user circuit only in idle , HBit1 - msocket-detection : termination (m socket detection) test, HBit0 	indicate line test items
type-low	<p>Parameter type: <LineTest::ltTypeLowSip></p> <p>Format:</p> <p>(none ac-current dc-current noise-level howler status-monitored cable-pair-ident talking-father line-reverse-sub p-meter-pulse-sub ring-subscrib-sub dpdtmf-signal-sub userloop-sub etsi-signature electronic-ringer longitudinal-current conductance susceptance iltf-hazardous-voltage)</p>	<p><i>optional parameter</i></p> <p>indicate line test items</p>

Parameter	Type	Description
	Possible values: - none : null - ac-current : ac current test normal test, LBit29/30/31 - dc-current : dc current test normal test, LBit28/27/26 - noise-level : noise level normal test, LBit24 - howler : howler test under normal test, LBit22 - status-monitored : status monitored test, LBit20 - cable-pair-ident : cable pair identification test, LBit19 - talking-father : talking test (father test item), LBit18 - line-reverse-sub : line reverse test, subtest of talking test, LBit17 - p-meter-pulse-sub : private meter pulses test, subtest of talking test, LBit16 - ring-subscrib-sub : ring subscriber with auto ring test, subtest of talking test, LBit15 - dpdtmf-signal-sub : dp/dtmf signal test, subtest of talking test, LBit14 - userloop-sub : resistance of user loop (tip-ring), subtest of talking test, LBit13 - etsi-signature : etsi signature test, including capacitance and resistance, LBit12/11, for MELT only - electronic-ringer : electronic ringer detect test, including capacitance and resistance, LBit12/11, for NPOT-B only - longitudinal-current : longitudinal current test, LBit9 - conductance : termination conductance test, LBit4/5/6 - susceptance : termination susceptance test, LBit1/2/3 - iltf-hazardous-voltage: hazardous voltage detection test, LBit0	
test-parm-num	Parameter type: <LineTest::TestParmNum> Format: - parameter lines number in the session of test - range: [0...6]	<i>optional parameter</i> parameter lines number in the session for test
test-mode	Parameter type: <LineTest::TestModeForConfig> Format: (single interactive cablepair) Possible values: - single : the test will be end after one time - interactive : the interactive test - cablepair : the cable pair test	<i>optional parameter</i> test mode
inactive-timer	Parameter type: <LineTest::InactTimer> Format: - session inactive timer, 0 means never destroy the session automatically - unit: second - range: [0,120...65535]	<i>optional parameter</i> session inactive timer
type-extend	Parameter type: <LineTest::ItTypeExtendSip> Format: (none iltf-term-signature iltf-term-capacitiv iltf-ppa-test roh-test gr909-ringers gr909-dialtone-d gr909-roh	<i>optional parameter</i> indicate line test items

Parameter	Type	Description
	gr909-hazardous-p gr909-femf gr909-resistive-f iltf-term-ringer zener-res-volt isdn-pra-remotelb isdn-pra-ploadlb isdn-pra-locallb isdn-pra-cablelb cas-r2-remotelb cas-r2-ploadlb cas-r2-locallb cas-r2-cablelb diagnosis-call) Possible values: - none : null - iltf-term-signature : galvanic signature detection, ExBit31, only applicable for MELT - iltf-term-capacitiv : end device capacitance >50nF detection, ExBit30 - iltf-ppa-test : ppa variant test, ExBit29 - roh-test : termination roh test, ExBit28 - gr909-ringers : ringers test, ExBit26 - gr909-dialtone-d : draw and break dial tone delay test, ExBit25 - gr909-roh : receiver off hook test, ExBit24 - gr909-hazardous-p : hazardous potential test, ExBit23, - gr909-femf : foreign electromotive force test, ExBit22 - gr909-resistive-f : resistive faults test, ExBit21 - iltf-term-ringer : Termination Ringer Testing, ExBit27, only applicable for NPOT-B/C - zener-res-volt : Zener Resistance and Voltage test, ExBit20/19 - isdn-pra-remotelb : ISDN PRA Remote loopback test, ExBit18 - isdn-pra-ploadlb : ISDN PRA Payload loopback test, ExBit17 - isdn-pra-locallb : ISDN PRA Local loopback test, ExBit16 - isdn-pra-cablelb : ISDN PRA Cable loopback test, ExBit15 - cas-r2-remotelb : CAS R2 Remote loopback test, ExBit18 - cas-r2-ploadlb : CAS R2 Payload loopback test, ExBit17 - cas-r2-locallb : CAS R2 Local loopback test, ExBit16 - cas-r2-cablelb : CAS R2 Cable loopback test, ExBit15 - diagnosis-call : diagnosis call test, ExBit14	
[no] group-opt	Parameter type: <LineTest::ltGroupTestOpt> Format: (none extended pots-collective melt-collective) Possible values: - none : identifier group test normal report value, HBit28/27/26/22/21/20/17/16/15/14/11/9/8 - extended : identifier group test extended report value, HBit28/27/26/22/21/20/17/16/15/14/11/9/8 - pots-collective : identifier pots collective tests, HBit28/27/26/22/21/20/17/16/15/14/11/9/8,	<i>optional parameter with default value: "none"</i> indicate line test items

Parameter	Type	Description
	LBit12/11/6/5/4/3/2/1, ExBit30/29/28/27/20/19 - melt-collective : identifier MELT collective tests,HBit28/27/26/22/21/20/17/16/15/14/11/9/8, LBit12/11/6/5/4/3/2/1, ExBit31/30/29/28/20/19	
[no] busy-overwrite	Parameter type: <LineTest::ltBusyOverwriteFlag> Format: (true false) Possible values: - true : busy overwrite enable - false : busy overwrite disable	<i>optional parameter with default value: "false"</i> Session Busy Overwrite status
[no] force-measure	Parameter type: <LineTest::ForceMeasure> Format: (true false) Possible values: - true : force the MELT measurement for requested line tests - false : force measurement is not required	<i>optional parameter with default value: "false"</i> status of line for test

53.6 SINGLE LineTest Line Configuration Command

Command Description

This command allows the operator to configure the single LineTest line parameters.

User Level

The command can be accessed by operators with sip , xdsl privileges, and executed by operators with sip , xdsl privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest single ltline (sessionid) lineid <Itf::LineTestSingleLineId> [ line-status <LineTest::LineStatusForConfig> ]
```

Command Parameters

Table 53.6-1 "SINGLE LineTest Line Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(sessionid)	Format: - available session id - range: [1...16]	uniquely identify of session
lineid	Parameter type: <Itf::LineTestSingleLineId> Format: <Eqpt::NodeId> / <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> Field type <Eqpt::NodeId> - the Node number Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PortId> - the port number	Identify of line

Table 53.6-2 "SINGLE LineTest Line Configuration Command" Command Parameters

Parameter	Type	Description
line-status	Parameter type: <LineTest::LineStatusForConfig> Format: (intest testover	<i>optional parameter</i> status of line for test

Parameter	Type	Description
	<div> rstpartlyready)</div> <div>Possible values:</div> <div>- intest : put the line in test</div> <div>- testover : the line tested, and the result is ready for polling, it is read-only</div> <div>- rstpartlyready : defined for dp/dtmf test</div>	

53.7 SINGLE LineTest Param Configuration Command

Command Description

This command allows the operator to manage single linetest parameters.

User Level

The command can be accessed by operators with sip , xdsl privileges, and executed by operators with sip , xdsl privileges.

Command Syntax

The command has the following syntax:

```
> configure linetest single ltparm (sessionid) test-name(unit) <LineTest::TestTypeSip> [ value1
<LineTest::ParaValue1Sip> ] [ value2 <LineTest::ParaValue2Sip> ] [ value3 <LineTest::ParaValue3Sip> ] [
value4 <LineTest::ParaValue4Sip> ] [ value5 <LineTest::ParaValue5Sip> ] [ min-threshold
<LineTest::TestThreshold> ] [ max-threshold <LineTest::TestThreshold> ] [ min-threshold2
<LineTest::TestThreshold> ] [ max-threshold2 <LineTest::TestThreshold> ] [ ltstrvalue1
<LineTest::ParaStrValueString> ]
```

Command Parameters

Table 53.7-1 "SINGLE LineTest Param Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(sessionid)	Format: - available session id - range: [1...16]	uniquely identify of session
test-name(unit)	Parameter type: <LineTest::TestTypeSip> Format: (feeded-ac-tr(mv) feeded-ac-tg(mv) feeded-ac-rg(mv) foreign-ac-tr(mv) foreign-ac-tg(mv) foreign-ac-rg(mv) feeded-dc-tr(mv) foreign-dc-tr(mv) foreign-dc-tg(mv) foreign-dc-rg(mv) feed-current(ua) feeded-dc-rt(mv) resist-tr(ohm) resist-rt(ohm) resist-tg(ohm)	test type

Resource Identifier	Type	Description
	resist-rg(ohm) resist-tbat(ohm) resist-rbat(ohm) capacitanc-tr(nf) capacitanc-rt(nf) capacitanc-tg(nf) capacitanc-rg(nf) impedance-tr(ohm) impedance-tg(ohm) impedance-rg(ohm) low-capacit-phone force-ring-subscrib dialton-delay(ms) msocket-detection ac-current-tr(ua) ac-current-tg(ua) ac-current-rg(ua) dc-current-tr(ua) dc-current-tg(ua) dc-current-rg(ua) noise-lv-0.001dbm howler-test-park status-monitored cable-pair-ident talking-father line-reverse-sub p-meter-pulse-sub ring-subscrib-sub dpdtmf-signal-sub userloop-sub(ohm) capacit-sign(pf) resist-sign(ohm) feeded-dc-tg(mv) feeded-dc-rg(mv) impedance-rt(ohm) long-current(ua) diagnosis-caller diagnosis-callee conductance-tr(1/10us) conductance-tg(1/10us) conductance-rg(1/10us) susceptance-tr(1/10us) susceptance-tg(1/10us) susceptance-rg(1/10us) hazardous-volt(1/2) term-signature(1/0) term-capacitiv(1/0) ppa-test(ppa-variant) roh-test(1/0) term_ringer(1/0) ringer-ren(mren) dialtone-delay-db(ms) gr909-roh gr909-hazardous-p gr909-femf gr909-resistive-f zener-res(ohm)	

Resource Identifier	Type	Description
	zener-volt(uv) remotelb ploadlb locallb cablelb isdn-pra-remotelb isdn-pra-ploadlb isdn-pra-locallb isdn-pra-cablelb cas-r2-remotelb cas-r2-ploadlb cas-r2-locallb cas-r2-cablelb diagnosis-call(1/10s)) Possible values: - feeded-ac-tr(mv) : feeded ac rms voltage of user line (tip-ring) - feeded-ac-tg(mv) : feeded ac rms voltage of user line (tip-ground) - feeded-ac-rg(mv) : feeded ac rms voltage of user line (ring-ground) - foreign-ac-tr(mv) : foreign ac rms voltage of user line (tip-ring) - foreign-ac-tg(mv) : foreign ac rms voltage of user line (tip-ground) - foreign-ac-rg(mv) : foreign ac rms voltage of user line (ring-ground) - feeded-dc-tr(mv) : feeded dc voltage of user line (tip-ring) - foreign-dc-tr(mv) : foreign dc voltage of user line (tip-ring) - foreign-dc-tg(mv) : foreign dc voltage of user line (tip-ground) - foreign-dc-rg(mv) : foreign dc voltage of user line (ring-ground) - feed-current(ua) : feeding current (tip-ring) - feeded-dc-rt(mv) : feeded dc voltage of user line (ring-tip) - resist-tr(ohm) : insulating resistance of user line (tip-ring) - resist-rt(ohm) : insulating resistance of user line (ring-tip) - resist-tg(ohm) : insulating resistance of user line (tip-ground) - resist-rg(ohm) : insulating resistance of user line (ring-ground) - resist-tbat(ohm) : insulating battery resistance of user line (tip-bat) - resist-rbat(ohm) : insulating battery resistance of user line (ring-bat) - capacitanc-tr(nf) : capacitance of user line (tip-ring) - capacitanc-rt(nf) : capacitance of user line (ring-tip) - capacitanc-tg(nf) : capacitance of user line (tip-ground) - capacitanc-rg(nf) : capacitance of user line (ring-ground) - impedance-tr(ohm) : impedance of user circuit (tip-ring) - impedance-tg(ohm) : impedance of user circuit (tip-ground) - impedance-rg(ohm) : impedance of user circuit (ring-ground) - low-capacit-phone : low capacitance phone detect - force-ring-subscrib : force ring subscriber test - dialton-delay(ms) : dial tone delay of user circuit only in	

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> idle - msocket-detection : termination (m socket detection) - ac-current-tr(ua) : ac current test normal test (tip-ring) - ac-current-tg(ua) : ac current test normal test (tip-ground) - ac-current-rg(ua) : ac current test normal test (ring-ground) - dc-current-tr(ua) : dc current test normal test (tip-ring) - dc-current-tg(ua) : dc current test normal test (tip-ground) - dc-current-rg(ua) : dc current test normal test (ring-ground) - noise-lv-0.001dbm : noise level normal test - howler-test-park : howler test under normal test condition only in parking - status-monitored : status monitored test - cable-pair-ident : cable pair identification test - talking-father : talking test (father test item) - line-reverse-sub : line reverse test, subtest of talking test - p-meter-pulse-sub : private meter pulses test, subtest of talking test - ring-subscrib-sub : ring subscriber with auto ring test, subtest of talking test - dpdtmf-signal-sub : dp/dtmf signal test, subtest of talking test - userloop-sub(ohm) : resistance of user loop (tip-ring), subtest of talking test - capacit-sign(pf) : capacitance of etsi signature or electronic ringer - resist-sign(ohm) : resistance of etsi signature or electronic ringer - feeded-dc-tg(mv) : feeded dc voltage of user line (tip-ground) - feeded-dc-rg(mv) : feeded dc voltage of user line (ring-ground) - impedance-rt(ohm) : impedance of user circuit (ring-tip) - long-current(ua) : difference between the currents on the a-lead and the b-lead (longitudinal current) - diagnosis-caller : H248 Voice Diagnosis Caller - diagnosis-callee : H248 Voice Diagnosis Callee - conductance-tr(1/10us): Conductance of user line (Tip-Ring) - conductance-tg(1/10us): Conductance of user line (Tip-Ground) - conductance-rg(1/10us): Conductance of user line (Ring-Ground) - susceptance-tr(1/10us): Susceptance of user line (Tip-Ring) - susceptance-tg(1/10us): Susceptance of user line (Tip-Ground) - susceptance-rg(1/10us): Susceptance of user line (Ring-Ground) - hazardous-volt(1/2) : whether voltage value is hazardous or not(iltf-hazardous-voltage) - term-signature(1/0) : whether termination signature is detected(iltf-termination-signature) - term-capacitiv(1/0) : whether termination capacitance is detected(iltf-termination-capacitiv) - ppa-test(ppa-variant) : test ppa variant(iltf-ppa) - roh-test(1/0) : test termination roh - term_ringer(1/0) : whether termination ringer is detected 	

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - ringer-ren(mren) : gr909 ringer equivalency number testing - dialtone-delay-db(ms) : gr909 draw and break dial tone delay testing - gr909-roh : gr909 receiver off hook testing - gr909-hazardous-p : gr909 Hazardous Potential testing - gr909-femf : gr909 Foreign ElectroMotive Force testing - gr909-resistive-f : gr909 resistive faults testing - zener-res(ohm) : test zener resistance - zener-volt(uv) : test zener voltage - remotelb : E1 or T1 Remote loopback test - ploadlb : E1 or T1 Payload loopback test - locallb : E1 or T1 Local loopback test - cablelb : E1 or T1 Cable loopback test - isdn-pra-remotelb : ISDN PRA Remote loopback test - isdn-pra-ploadlb : ISDN PRA Payload loopback test - isdn-pra-locallb : ISDN PRA Local loopback test - isdn-pra-cablelb : ISDN PRA Cable loopback test - cas-r2-remotelb : CAS R2 Remote loopback test - cas-r2-ploadlb : CAS R2 Payload loopback test - cas-r2-locallb : CAS R2 Local loopback test - cas-r2-cablelb : CAS R2 Cable loopback test - diagnosis-call(1/10s) : diagnosis call test 	

Table 53.7-2 "SINGLE LineTest Param Configuration Command" Command Parameters

Parameter	Type	Description
value1	<p>Parameter type: <LineTest::ParaValue1Sip> Format:</p> <ul style="list-style-type: none"> - parameter value required for the execution of the \r\nspecified test type.\r\n<resistance tr/rt(ohm)>:\r\n <p>Meaning: allows to configure whether it is required \r\n to test the 'signature' or not.\r\n Applicability : MELT only.\r\n Range: No(0) Yes(1)\r\n Default: No(0)\r\n <impedance tr/tg/rg(ohm)>:\r\n Meaning: allows to configure the frequency the test \r\n must run with.\r\n Range: 5~3000\r\n Default: 20 Unit: Hz\r\n <status-monitored>:\r\n Meaning: allows to configure whether to check real \r\n parking or short current state.\r\n Range: No(1) Yes(2)\r\n No default value.\r\n <cable-pair-ident>:\r\n Meaning: allows to configure the frequency the test \r\n must run with.\r\n Applicability : MELT only.\r\n Range: 300~3400\r\n Default: 800 Unit: Hz\r\n For SHDSL, only 800 Hz (default) and 1000 Hz are \r\n supported.\r\n <p-meter-pulse-sub>:\r\n Meaning: allows to configure the metering mode.\r\n Range: 1 TAPI_METER_MODE_TTX\r\n 2 TAPI_METER_MODE_REVPOL\r\n No default value.\r\n <dpdtmf-signal-sub>:\r\n Meaning: allows to configure the number of signals\r\n to be gathered.\r\n Range: 1~20\r\n No default value.\r\n <isdn-pra-locallb / cablelb>:\r\n Meaning: allows to configure the test pattern to be \r\n used for the loopback test.\r\n If no input is given, a 'Pseudo-random' pattern is \r\n defined and applied by the system.\r\n If an input is given (value in the range 0~254), the \r\n value defines the pattern (range 0x00~0xFE) to be used \r\n for the loopback test.\r\n Range: 0~254\r\n Default: 'Pseudo-random' pattern (no input</p>	<p><i>optional parameter</i> test parameter value1</p>

Parameter	Type	Description
	given)\r\n<cas-r2-locallb / cablelb>:\r\n Meaning: allows to configure the test pattern to be \r\n used for the loopback test.\r\n If no input is given, a 'Pseudo-random' pattern is \r\n defined and applied by the system.\r\n If an input is given (value in the range 0~254), the \r\n value defines the pattern (range 0x00~0xFE) to be used \r\n for the loopback test.\r\n Range: 0~254\r\n Default: 'Pseudo-random' pattern (no input given)	
value2	Parameter type: <LineTest::ParaValue2Sip> Format: - parameter value required for the execution of the \r\n unspecified test type.\r\n <impedance tr/tg/rg(ohm)>:\r\n Meaning: allows to configure the RMS voltage level.\r\n Range: -150~+150\r\n Default: 15 Unit: V\r\n <cable-pair-ident>:\r\n Meaning: allows to configure the power level.\r\n Applicability : MELT only.\r\n Range: -600~0\r\n For XDSL, range is -600~-160\r\n For SHDSL, range is -340~-40\r\n Default: -160 Unit: 0.1 dbm	<i>optional parameter</i> test parameter value2
value3	Parameter type: <LineTest::ParaValue3Sip> Format: - parameter value3 is actually not used	<i>optional parameter</i> test parameter value3
value4	Parameter type: <LineTest::ParaValue4Sip> Format: - parameter value4 is actually not used	<i>optional parameter</i> test parameter value4
value5	Parameter type: <LineTest::ParaValue5Sip> Format: - parameter value5 is actually not used	<i>optional parameter</i> test parameter value5
min-threshold	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold min of this test type
max-threshold	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold max of this test type
min-threshold2	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold2 min of this test type
max-threshold2	Parameter type: <LineTest::TestThreshold> Format: - threshold of the test type - range: [-2147483647...2147483647]	<i>optional parameter</i> threshold2 max of this test type
ltstrvalue1	Parameter type: <LineTest::ParaStringValueString> Format: - string parameter value required for the execution of the \r\n unspecified test type.\r\n <diagnosis-call(1/10s)>:\r\n Meaning: allows to configure destination number.\r\n Applicability: NBLT only.\r\n Range: 0~9, *, #,\r\n No default value.\r\n Length: 1~16.	<i>optional parameter</i> test parameter string value1