

# XINERTEL TeleATT

-Telnet 拓展测试

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## 一、测试拓扑

本测试项目是通过仪器端口实现 Telnet 功能，将网线/光纤线对接仪器端口与 DUT 端口



## 二、连接机框，选择端口，然后添加”Telnet 拓展测试”任务



## 三、配置登录名，密码等参数

建议先手动在 cmd 界面调试一遍命令，如下图

```
Username:admin
Password:
Info: The max number of VTY users is 10, and the number
of current VTY users on line is 1.
The current login time is 2060-04-10 13:35:35-05:13.
<L3>
```

**通信端口**：选择进行 Telnet 登录的端口

**Telnet 服务器 IP** : 填写 DUT 端口的 IP

**登录用户名提示信息** :如 Username :也可以省略来写 ,填写" name: " 或者" :"  
都行

**登录密码提示信息** :如 Password : 也可以省略来写 ,填写" word: " 或者" :"  
都行

**失败重新登录次数** : Telnet 登录的次数 , 一般默认 2 次就行

**登录成功校验** : 登录成功后的提示信息 , 如 <L3>。也可以省略填 > 即可。



#### 四、 登录信息填写完后 , 添加指令。点击 “增加” 按钮

以抓取 Hardware address 地址为例 , 需要用到的命令如下 2 条 :

```
sys
```

```
display interface GigabitEthernet 0/0/23
```

下图是 CMD 窗口手动执行的状态

```

<L3>sys
Enter system view, return user view with Ctrl+Z.
[L3]display interface GigabitEthernet 0/0/23
GigabitEthernet0/0/23 current state : UP
Line protocol current state : UP
Last line protocol up time : 2060-04-10 11:41:16 UTC-05:13
Description:
Route Port,The MTU is 1500
Internet Address is 12.12.12.12/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 200b-c79f-7a39
Current system time: 2060-04-10 15:18:29-05:13
Port Mode: COMMON COPPER
Speed : 1000, Loopback: NONE
Duplex: FULL, Negotiation: ENABLE
Mdi : AUTO, Flow-control: DISABLE
Last 300 seconds input rate 184 bits/sec, 0 packets/sec
Last 300 seconds output rate 224 bits/sec, 0 packets/sec
Input peak rate 54360 bits/sec, Record time: 2060-04-10 14:58:23
Output peak rate 997826704 bits/sec, Record time: 2060-03-23 17:55:39
Input: 5960 packets, 511860 bytes
  Unicast:                    5387, Multicast:                    347
  Broadcast:                  226, Jumbo:                      0
  Discard:                     0, Pause:                      0
  Frames:                      0
Total Error:                  0
CRC:                          0, Giants:                    0
Jabbers:                       0, Fragments:                 0
---- More ----

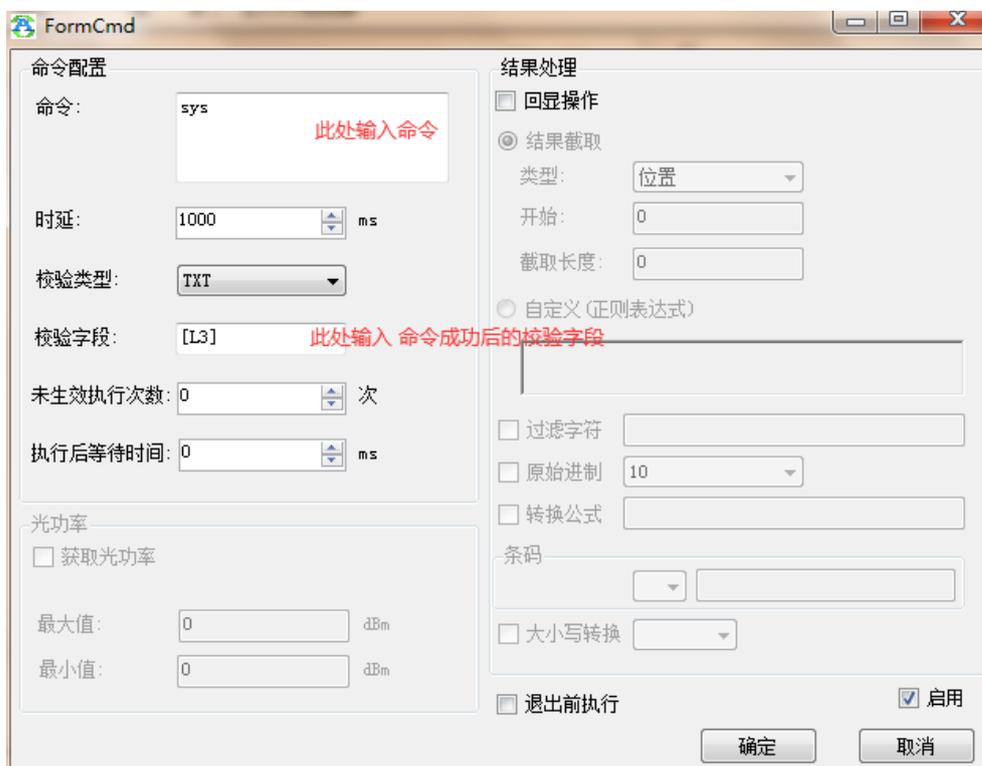
```

#### 4.1 首先配置第一个命令 : sys

```

<L3>sys
Enter system view, return user view with Ctrl+Z.
[L3]display interface GigabitEthernet 0/0/23

```



## 4.2 配置第二个命令：display interface GigabitEthernet 0/0/23

```
[L3]display interface GigabitEthernet 0/0/23
GigabitEthernet0/0/23 current state : UP
Line protocol current state : UP
Last line protocol up time : 2060-04-10 11:41:16 UTC-05:13
Description:
Route Port,The MTU is 1500
Internet Address is 12.12.12.12/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 200b-c79f-7a39
Current system time: 2060-04-10 16:43:04-05:13
Port Mode: COMMON COPPER
Speed : 1000, Loopback: NONE
Duplex: FULL, Negotiation: ENABLE
Mdi : AUTO, Flow-control: DISABLE
Last 300 seconds input rate 0 bits/sec, 0 packets/sec
Last 300 seconds output rate 0 bits/sec, 0 packets/sec
Input peak rate 54784 bits/sec, Record time: 2060-04-10 16:21:50
Output peak rate 997826704 bits/sec, Record time: 2060-03-23 17:55:39
Input: 7558 packets, 647925 bytes
  Unicast: 6908, Multicast: 383
  Broadcast: 267, Jumbo: 0
  Discard: 0, Pause: 0
  Frames: 0

Total Error: 0
CRC: 0, Giants: 0
Jabbers: 0, Fragments: 0
---- More ----
```

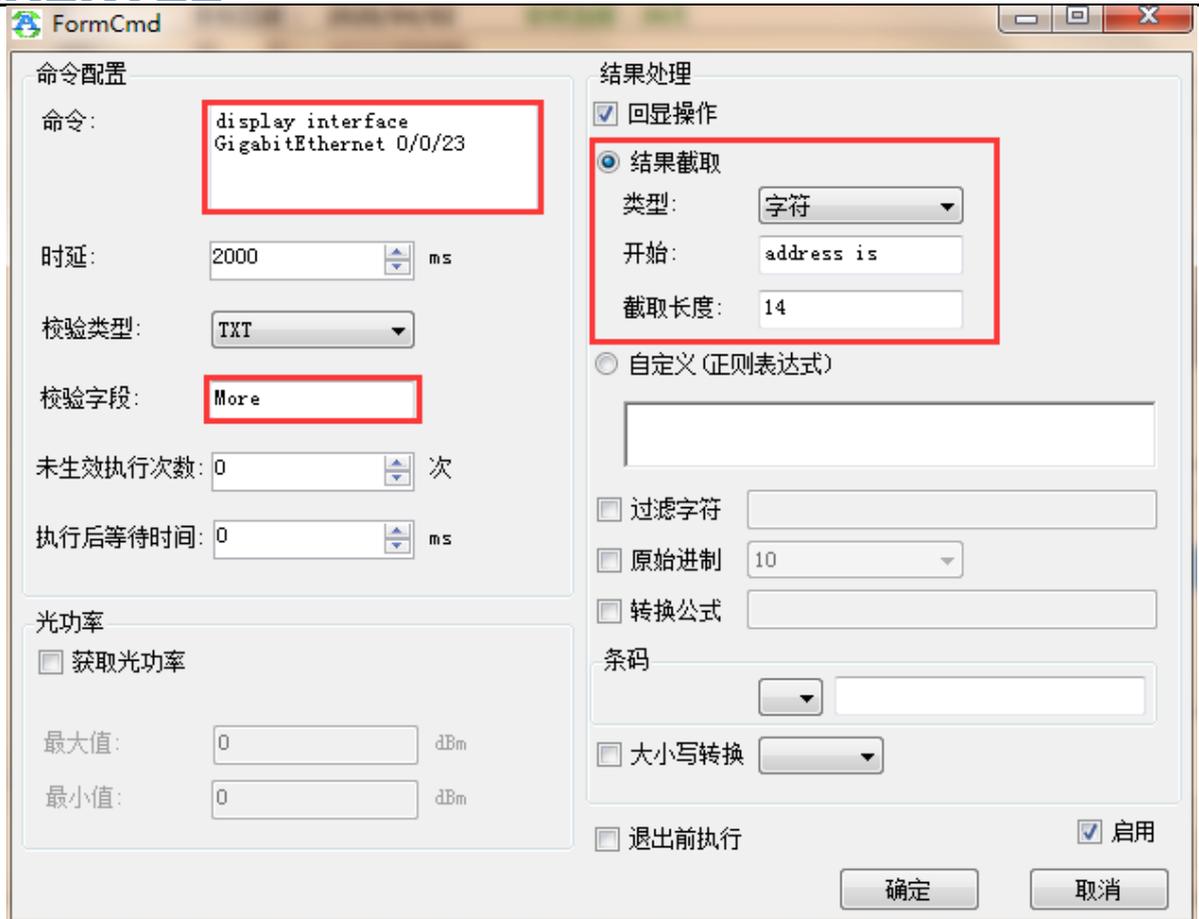
截取字段

校验字段

## 五、配置截取字段

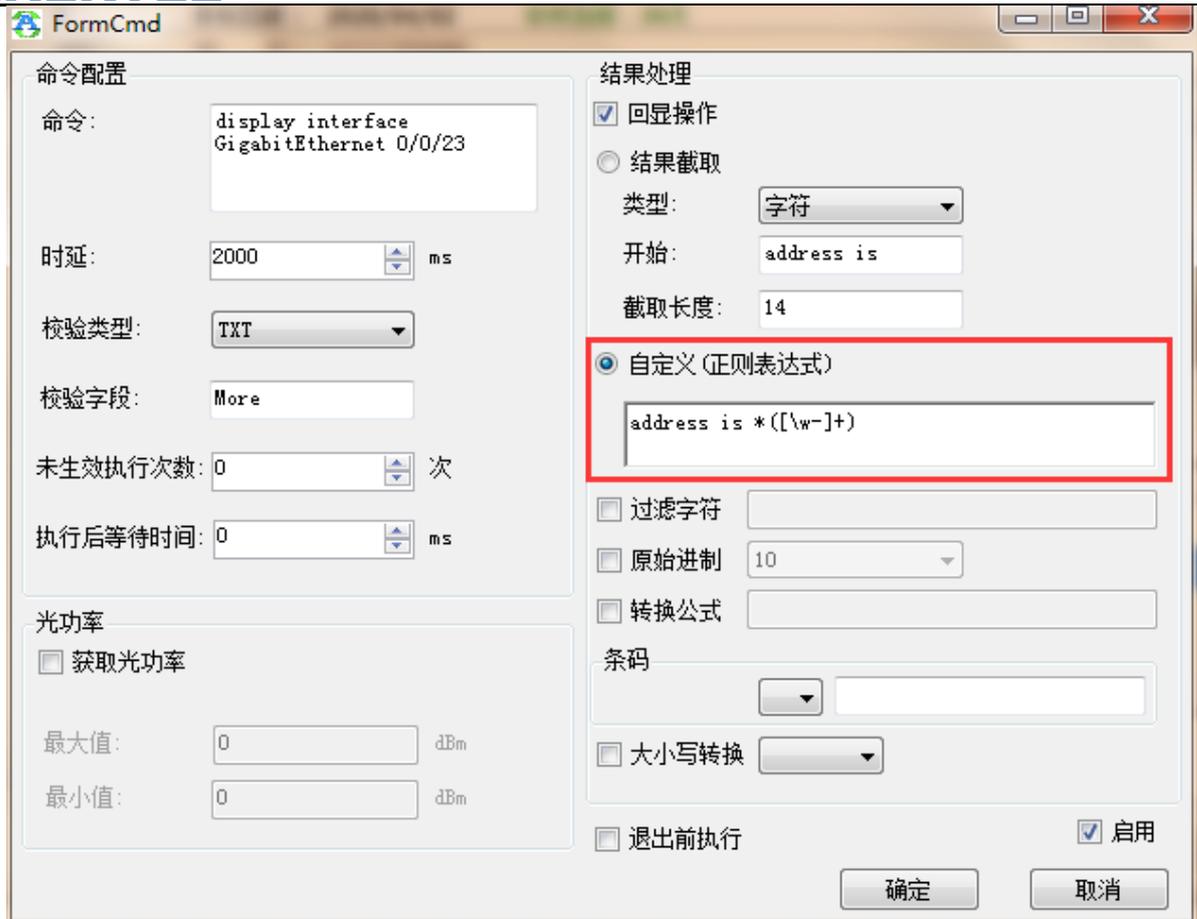
TeleATT 软件对应的配置方法：

方法 1：使用结果截取方法



The image shows a software window titled "FormCmd" with a standard Windows-style title bar. The window is divided into two main sections: "命令配置" (Command Configuration) on the left and "结果处理" (Result Processing) on the right. In the "命令配置" section, the "命令" (Command) field contains the text "display interface GigabitEthernet 0/0/23", which is highlighted with a red rectangular box. Below it, the "时延" (Delay) is set to 2000 ms, "校验类型" (Check Type) is set to "TXT", and the "校验字段" (Check Field) is set to "More", also highlighted with a red box. The "未生效执行次数" (Number of non-effective executions) is 0, and the "执行后等待时间" (Waiting time after execution) is 0 ms. The "光功率" (Optical Power) section has a checkbox for "获取光功率" (Get optical power) which is unchecked, and both "最大值" (Maximum) and "最小值" (Minimum) are set to 0 dBm. The "结果处理" section has a checked checkbox for "回显操作" (Echo operation). Underneath, the "结果截取" (Result truncation) radio button is selected and highlighted with a red box. Its "类型" (Type) is set to "字符" (Character), "开始" (Start) is "address is", and "截取长度" (Truncation length) is 14. The "自定义(正则表达式)" (Custom (Regular Expression)) radio button is unselected. Below it, there are fields for "过滤字符" (Filter character), "原始进制" (Original base) set to 10, "转换公式" (Conversion formula), and "条码" (Barcode) with a dropdown menu. The "大小写转换" (Case conversion) checkbox is unchecked. At the bottom right of the "结果处理" section, the "退出前执行" (Execute before exit) checkbox is unchecked, and the "启用" (Enable) checkbox is checked. At the very bottom of the window, there are two buttons: "确定" (OK) and "取消" (Cancel).

## 方法 2：使用正则表达式方法



以上两种截取的方式二选一即可。

**时延：**命令行每个字符的延时时间

**校验字段：**如终端机打印信息里的<H3C>，也可以省略写成 >。

**校验类型：**预留字段（默认）

**未生效执行次数：**没有抓到校验字段时重复执行多少次

**执行后等待时间：**这条命令执行后的等待时间

**回显操作：**对回显进行操作（比较光功率、获取条码）结果截取：

**开始：**如果类型是“位置”，就是从第几个字符开始截图；如果类型是“字符”，就是从这个关键字字符开始截取。

**截取长度：**截取的字符个数

**自定义（正则表达式）：**获取条码:把匹配到的字符作为 DUT 的条码，只有串口拓展测试在第一项，才有效 过滤字符：比如“:”，截取到的 00:00:01:01:01:01 就会过滤掉“:” 显示 000001010101

**获取光功率**：获取光功率值，保存到 LOG。 最大值，最小值：设置一个判断大小值，范围内为 PASS，反之 Fail。

## 六、测试结果

成功截取到信息：

测试任务	测试结果	模式	手动
Telnet拓展测试	Pass	时间	00:00:02
		PASS:	1
		FAIL:	0

获取数据:200b-c79f-7a39  
Telnet命令执行成功  
该设备测试成功

## 七、测试日志信息

```
[Command: admin]
[Echo:]
admin
Password:
[Command: admin123]
[Echo:]
Info: The max number of VTY users is 10, and the number
      of current VTY users on line is 2.
      The current login time is 2060-04-10 16:21:48-05:13.
<L3>
[Command: display interface GigabitEthernet 0/0/23]
[Echo:]
display interface GigabitEthernet 0/0/23
GigabitEthernet0/0/23 current state : UP
Line protocol current state : UP
Last line protocol up time : 2060-04-10 11:41:16 UTC-05:13
Description:
Route Port, The MTU is 1500
Internet Address is 12.12.12.12/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 200b-c79f-7a39
Current system time: 2060-04-10 16:21:48-05:13
Port Mode: COMMON COPPER
Speed : 1000, Loopback: NONE
Duplex: FULL, Negotiation: ENABLE
Mdi : AUTO, Flow-control: DISABLE
Last 300 seconds input rate 224 bits/sec, 0 packets/sec
Last 300 seconds output rate 240 bits/sec, 0 packets/sec
Input peak rate 54360 bits/sec, Record time: 2060-04-10 14:58:23
Output peak rate 997826704 bits/sec, Record time: 2060-03-23 17:55:39
Input: 7455 packets, 639143 bytes
  Unicast:                6811, Multicast:                380
  Broadcast:              264, Jumbo:                  0
  Discard:                 0, Pause:                  0
  Frames:                  0
  Total Error:             0
  CRC:                    0, Giants:                  0
  Jabbers:                 0, Fragments:              0
  ---- More ----
```

如果是抓取 ONU 的功率值，截取功率值操作方法同上。如果要判断功率值是否符合范围，需要勾选下图配置最大值和最小值。

光功率

获取光功率

最大值: 0 填写最大值 dBm

最小值: 0 填写最小值 dBm