

# ISDN 用戶電信終端設備技術規範總說明

電信管理法業於一百零八年六月二十六日制定公布，ISDN 是數位式多功能的公眾通信網路，可將多種不同的電信服務納入一個統一的數位網路中，提供用戶全數位化的整體通信服務。為因應技術發展現況，及考量 ISDN 用戶電信終端設備屬連接公眾電信網路之電信終端設備，爰參考現行「ISDN 用戶終端設備技術規範」及國際技術標準，擬具本規範，作為設備製造商、進口商及經銷商等辦理型式認證之依據。其訂定重點分述如下：

- 一、法源依據。(第一點)
- 二、適用範圍。(第二點)
- 三、檢驗項目及合格標準。(第四點)

# ISDN 用戶電信終端設備技術規範

| 規定                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 說明                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <p>1. 法源依據</p> <p>本規範係依據電信管理法第四十四條第一項規定訂定之。</p>                                                                                                                                                                                                                                                                                                                                                                                                    | <p>本規範之法源依據。</p>      |
| <p>2. 適用範圍</p> <p>2.1 本規範所稱之ISDN用戶電信終端設備包括接入整體服務數位網路（Integrated Services Digital Network，ISDN）之下列各種用戶電信終端設備：</p> <p>2.1.1 ISDN 數位電話機。</p> <p>2.1.2 ISDN 個人電腦附加卡。</p> <p>2.1.3 ISDN G4傳真機。</p> <p>2.1.4 ISDN 影像電話機。</p> <p>2.1.5 ISDN 終端配接器、ISDN 終端配接器模組。</p> <p>2.1.6 ISDN PABX。</p> <p>2.1.7 其他ISDN用戶電信終端設備等。</p> <p>2.2 本規範審驗用戶電信終端設備之OSI第一、二、三層通信協定。有關其OSI之高層通信協定，則不在本規範範圍內。</p> <p>2.3 ISDN交換機與110/119集中受理電信終端設備介接通信協定列為ISDN用戶電信終端設備之選測項目。</p> | <p>本規範之適用範圍。</p>      |
| <p>3. 向測試機構申請測試報告，廠商須檢附測試準備資訊（Client Test Preparation Information，CTPI）各一份如下：</p> <p>3.1 系統符合性聲明（System Conformance Statement，SCS）。</p> <p>3.2 協定製作符合性聲明（Protocol Implementation Conformance Statement，PICS）。</p> <p>3.3 協定製作之額外測試資訊（Protocol Implementation eXtra Information for Testing，PIXIT）。</p>                                                                                                                                             | <p>本規範須檢附之測試準備資訊。</p> |

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| <p>4. 檢驗項目及合格標準</p> <p>4.1 基本速率接取界面：廠商販賣 ISDN 用戶電信終端設備之檢驗項目及合格標準如附表一，用戶自用之檢驗項目及合格標準如附表二。</p> <p>4.2 原級速率接取界面（區分為 T1【1.544Mbit/s】、E1【2.048Mbit/s】介面）：廠商販賣 ISDN 用戶電信終端設備之檢驗項目及合格標準如附表三、四，用戶自用之檢驗項目及合格標準如附表五、六。</p> <p>4.3 若申請人只申請基本速率接取界面或原級速率接取界面之檢驗，則只檢驗該接取界面。</p> <p>4.4 ISDN 交換機與 110/119 集中受理電信終端設備介接通信協定之檢驗項目及合格標準如附表七（本檢驗項目適用於基本速率接取界面及原級速率接取界面、廠商販賣及用戶自用），通信介面資料格式及測試規範詳如附件一。【本檢驗項目為選測項目】。</p> <p>4.5 基本速率接取界面測試項目表詳如附件二，原級速率接取界面測試項目表（區分為 T1【1.544Mbit/s】、E1【2.048Mbit/s】介面）詳如附件三、四。</p> <p>4.6 基本速率接取界面之 ISDN 用戶電信終端設備若具備語音功能（指具備 Speech 或 3.1KHz Audio Bearer Capability），則需加測 <math>\mu</math>-law 及 A-law 編解碼 (CODEC) 相互切換機能。且須於使用手冊上詳述 <math>\mu</math>-law 及 A-law 編解碼 (CODEC) 相互切換之方法。</p> <p>4.7 如設備原級速率接取界面 (T1 介面【1.544Mbit/s】) 已經主管機關審驗通過，且該設備又同時支援 T1 介面 (1.544Mbit/s)、E1 介面</p> | <p>一、本規範之檢驗項目及標準。</p> <p>二、考量原級速率接取界面 (T1 介面【1.544Mbit/s】、E1 介面【2.048Mbit/s】) 在測試項目上，只有實體層符合性測試項目有差異，數據鏈路層及網路層符合性測試項目均相同，爰訂定 4.7 規定，以資明確。</p> |
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|                                                                                                                                                                                                                                                               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>(2.048Mbit/s) ， 在 硬 體 (Hardware) 部分完全相同，則只須補測實體層符合性測試項目。</p> <p>4.8 檢驗項目之介面標準，須遵循ITU-T ISDN基本速率接取界面或原級速率接取界面第一、二、三層通信規約之規定。但基本速率接取界面或原級速率接取界面第二、三層得檢附符合性宣告書或他國審驗證明文件代之。</p> <p>4.9 電磁相容規定<br/>符合 CNS 13438標準。</p> <p>4.10 電氣安全規定<br/>符合 CNS 14336-1標準。</p> |  |
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基本速率接取界面－廠商銷售 ISDN 用戶電信終端設備檢驗表

| 檢 驗 項 目    |                   | 合 格 標 準     |
|------------|-------------------|-------------|
| 實體層符合性測試   |                   |             |
| 1          | 基本互連測試            | PH/BS_IC    |
| 2          | 功能特性測試            | PH/FN_CH    |
| 3          | 電氣特性測試            | PH/ET_CH    |
| 4          | 饋電測試              | PH/PW_FD    |
| 數據鏈路層符合性測試 |                   |             |
| 5          | 終端端點識別符<br>管理程序測試 | LAPD/MGMT   |
| 6          | 複框操作測試            | LAPD/MFO    |
| 7          | 系統參數測試            | LAPD/SYSTEM |
| 網路層符合性測試   |                   |             |
| 8          | 狀態 U0測試           | ISDN3/U0    |
| 9          | 狀態 U1測試           | ISDN3/U1    |
| 10         | 狀態 U3測試           | ISDN3/U3    |
| 11         | 狀態 U4測試           | ISDN3/U4    |
| 12         | 狀態 U8測試           | ISDN3/U8    |
| 13         | 狀態 U10測試          | ISDN3/U10   |
| 14         | 狀態 U11測試          | ISDN3/U11   |
| 15         | 狀態 U19測試          | ISDN3/U19   |

附表二

基本速率接取界面－用戶自用 ISDN 用戶電信終端設備檢驗表

| 檢 驗 項 目 |          | 合 格 標 準               |
|---------|----------|-----------------------|
| 1       | 實體層饋電測試  | PH/PW_FD              |
| 2       | 基本呼叫連接測試 | Basic Call Connection |

附表三

原級速率接取界面－廠商銷售 ISDN 用戶電信終端設備檢驗表  
(T1 介面【1.544Mbit/s】)

| 檢 驗 項 目    |          | 合 格 標 準     |
|------------|----------|-------------|
| 實體層符合性測試   |          |             |
| 1          | 功能特性測試   | PH/FN_CH    |
| 2          | 電氣特性測試   | PH/ET_CH    |
| 數據鏈路層符合性測試 |          |             |
| 3          | 複框操作測試   | LAPD/MFO    |
| 4          | 系統參數測試   | LAPD/SYSTEM |
| 網路層符合性測試   |          |             |
| 5          | 狀態 U0測試  | ISDN3/U0    |
| 6          | 狀態 U1測試  | ISDN3/U1    |
| 7          | 狀態 U3測試  | ISDN3/U3    |
| 8          | 狀態 U4測試  | ISDN3/U4    |
| 9          | 狀態 U8測試  | ISDN3/U8    |
| 10         | 狀態 U10測試 | ISDN3/U10   |
| 11         | 狀態 U11測試 | ISDN3/U11   |
| 12         | 狀態 U19測試 | ISDN3/U19   |

附表四

原級速率接取界面－廠商銷售 ISDN 用戶電信終端設備檢驗表  
(E1 介面【2.048Mbit/s】)

| 檢 驗 項 目    |          | 合 格 標 準     |
|------------|----------|-------------|
| 實體層符合性測試   |          |             |
| 1          | 功能特性測試   | PH/FN_CH    |
| 2          | 電氣特性測試   | PH/ET_CH    |
| 數據鏈路層符合性測試 |          |             |
| 3          | 複框操作測試   | LAPD/MFO    |
| 4          | 系統參數測試   | LAPD/SYSTEM |
| 網路層符合性測試   |          |             |
| 5          | 狀態 U0測試  | ISDN3/U0    |
| 6          | 狀態 U1測試  | ISDN3/U1    |
| 7          | 狀態 U3測試  | ISDN3/U3    |
| 8          | 狀態 U4測試  | ISDN3/U4    |
| 9          | 狀態 U8測試  | ISDN3/U8    |
| 10         | 狀態 U10測試 | ISDN3/U10   |
| 11         | 狀態 U11測試 | ISDN3/U11   |
| 12         | 狀態 U19測試 | ISDN3/U19   |



附表五

原級速率接取界面－用戶自用 ISDN 用戶電信終端設備檢驗表  
(T1介面【1.544Mbit/s】)

| 檢 驗 項 目 |          | 合 格 標 準               |
|---------|----------|-----------------------|
| 1       | 基本呼叫連接測試 | Basic Call Connection |

附表六

原級速率接取界面－用戶自用 ISDN 用戶電信終端設備檢驗表  
(E1介面【2.048Mbit/s】)

| 檢 驗 項 目 |          | 合 格 標 準               |
|---------|----------|-----------------------|
| 1       | 基本呼叫連接測試 | Basic Call Connection |

附表七

ISDN 交換機與110/119集中受理電信終端設備介接通信協  
定檢驗表

| ANI/ALI 介接符合性測試 |             |              |
|-----------------|-------------|--------------|
| 檢 驗 項 目         |             | 合 格 標 準      |
| 1               | UI_ID=1傳送測試 | ANI_ALI/UI_1 |
| 2               | UI_ID=1重送測試 | ANI_ALI/UI_2 |
| 3               | UI_ID=2傳送測試 | ANI_ALI/UI_3 |

## 一、110/119網路通信介面資料格式

110/119網路通信介面 UI 訊息計有下列二種資料格式，定義如下：

### (1). ISDN 交換機至110/119集中受理 ISDN CPE

| UI_ID          | ANI                    | Call_Class                                      | User_ID                 | ALI                     |
|----------------|------------------------|-------------------------------------------------|-------------------------|-------------------------|
| 1 byte<br>Char | 10 bytes<br>Char Array | 1 byte<br>Char (S：市話，<br>P：公話，M：行<br>動，R：Pager) | 100 bytes<br>Char Array | 100 bytes<br>Char Array |

註：1. 資料長度不足之欄位一律補 ‘\0’ char

2. 中文文字以 BIG 5碼編碼

所有 ALI 相關資料共211 bytes，分兩次透過 UI Message 傳送，第一次送112 bytes(包括 UI\_ID=1, ANI, Call-Class 與 User\_ID 等四個欄位資料)，第二次送101 bytes(包括 UI\_ID=2, ALI 等二個欄位資料)。

### (2). 110/119集中受理 ISDN CPE 至 ISDN 交換機

| UI_ID  | ALI_ACK |
|--------|---------|
| 1 byte | 1 byte  |

註：ALI\_Ack = 1 OK; =0 Failed

## 二、ISDN 交換機與110/119集中受理電信終端設備 ANI/ALI 介接通信協定認證測試 規範

### (一)、範圍

本測試規範含一測試群組(Test Group)，共計三測試項(Test Case)，同時適用於測試 BRI/PRI 介面。

待測物(IUT - Implementation Under Test)必須先通過 ISDN BRA/PRA 介面符合性測試。

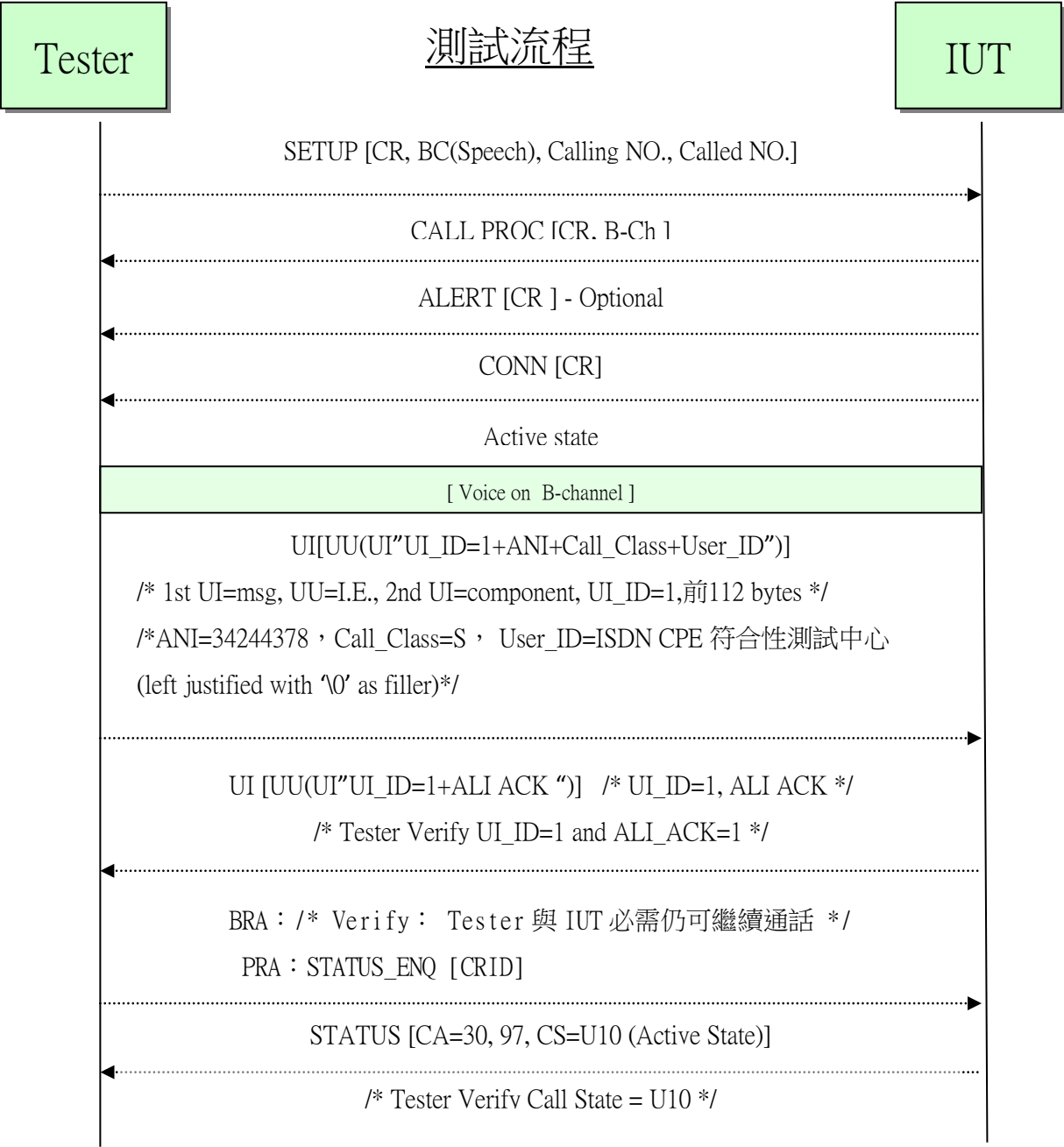
### (二)、內容

如後：

Test Group: ANI/ALI

Test Id: UI\_1

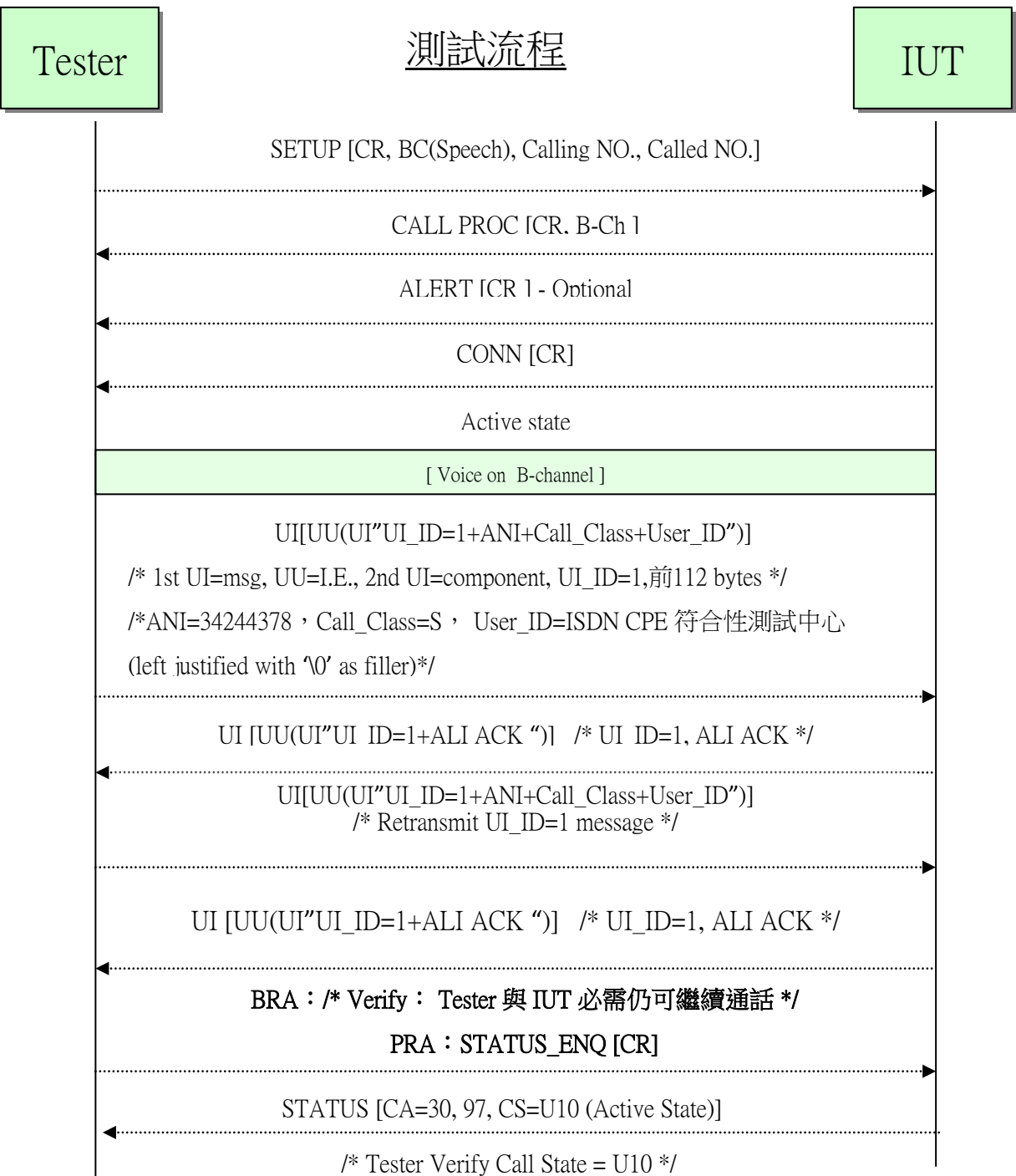
Test Purpose: Ensure that on receipt of a UI(UI\_ID=1) message the IUT responds with UI(ACK UI\_ID=1) and remains in U10 state



Test Group: ANI/ALI

Test Id: UI\_2

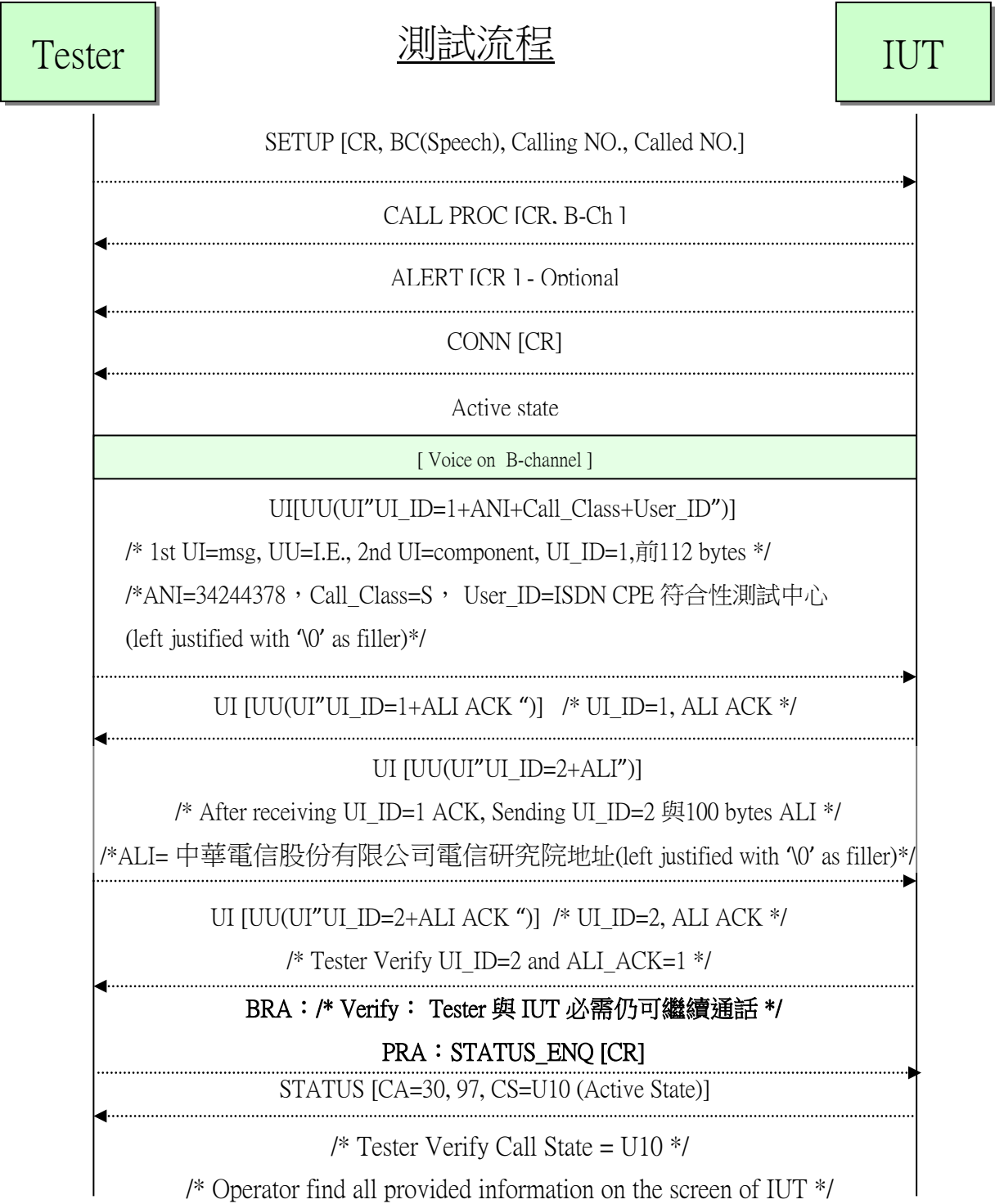
Test Purpose: Ensure that on receipt of a retransmitted UI(UI\_ID=1) message the IUT responds with UI(ACK UI\_ID=1) and remains in U10 state



Test Group: ANI/ALI

Test Id: UI\_3

Test Purpose: Ensure that on receipt of a UI(UI\_ID=2) message the IUT responds with UI(ACK UI\_ID=2), remains in U10 state and Displays all the provided information





## 基本速率接取界面測試項目表

### 1. Layer 1 Conformance Test

Test Suite: CHT-96-BA-L1 Verdicts Assigned

PASS: 06

FAIL: 0

INCONC:0

Selected Cases: 06

|                 |                  |         |
|-----------------|------------------|---------|
| Test Identifier | ITU-T REC. I.430 | Verdict |
|-----------------|------------------|---------|

Test Group: Basic Interconnection Test

|    |                            |       |      |
|----|----------------------------|-------|------|
| 3. | Basic Interconnection Test | --(註) | PASS |
|----|----------------------------|-------|------|

Test Group: Binary Organization of Frame

|       |        |         |      |
|-------|--------|---------|------|
| 4.1.1 | TEST A | 5.4.2.1 | PASS |
|-------|--------|---------|------|

|       |        |       |      |
|-------|--------|-------|------|
| 4.1.2 | TEST B | 6.2.2 | PASS |
|-------|--------|-------|------|

Test Group: Electrical Characteristics Test

|       |                      |         |      |
|-------|----------------------|---------|------|
| 6.8.2 | Receiver Sensitivity | 8.6.2.1 | PASS |
|-------|----------------------|---------|------|

Test Group: Power Feeding

|         |                                |         |      |
|---------|--------------------------------|---------|------|
| 7.1.1.1 | NORMAL POWER PROVISION--TEST A | 9.3.1.1 | PASS |
|---------|--------------------------------|---------|------|

|         |                                    |         |      |
|---------|------------------------------------|---------|------|
| 7.1.2.1 | RESTRICTED POWER PROVISION--TEST A | 9.3.2.1 | PASS |
|---------|------------------------------------|---------|------|

註：'--' 表示無相對應章節。

## 2. Layer 2 Conformance Test

Test Suite: CHT-96-BA-L2

Verdicts Assigned

PASS:63

FAIL: 0

INCONC:0

Selected Cases: 63

Test Identifier

ITU-T REC. Q.921 Verdict

Test Group: DM70\_V State 7.0 Valid Frms

|          |                               |         |      |
|----------|-------------------------------|---------|------|
| DM70_V01 | ID-Assigned : Ai Duplicated   | 5.3.2   | PASS |
| DM70_V02 | ID-Assigned : Ai Non Matching | 5.3.2   | PASS |
| DM70_V05 | ID-Chk-Request : Ai Match     | 5.3.3.1 | PASS |
| DM70_V06 | ID-Chk-Request : Ai=127       | 5.3.3.1 | PASS |
| DM70_V11 | ID-Remove : Ai=127            | 5.3.4   | PASS |
| DM70_V12 | ID-Remove : Ai Match          | 5.3.4   | PASS |
| DM70_V13 | UA/F=1                        | 5.8.7   | PASS |
| DM70_V14 | UA/F=0                        | 5.8.7   | PASS |

Test Group: DM80\_V State 8.0 Valid Frms

|          |                               |         |      |
|----------|-------------------------------|---------|------|
| DM80_V01 | ID-Assigned : Ai Duplicated   | 5.3.2   | PASS |
| DM80_V02 | ID-Assigned : Ai Non Matching | 5.3.2   | PASS |
| DM80_V05 | ID-Chk-Request : Ai Match     | 5.3.3.1 | PASS |
| DM80_V06 | ID-Chk-Request : Ai=127       | 5.3.3.1 | PASS |
| DM80_V11 | ID-Remove : Ai=127            | 5.3.4   | PASS |
| DM80_V12 | ID-Remove : Ai Match          | 5.3.4   | PASS |
| DM80_V13 | UA/F=1                        | 5.8.7   | PASS |
| DM80_V14 | UA/F=0                        | 5.8.7   | PASS |

Test Group: DS70\_V State 7.0 Valid Frms

|          |                 |       |      |
|----------|-----------------|-------|------|
| DS70_V01 | Window Rotation | 5.9.5 | PASS |
|----------|-----------------|-------|------|

Test Group: DL70\_V State 7.0 Valid Frms

|          |           |       |      |
|----------|-----------|-------|------|
| DL70_V08 | SABME/P=1 | 5.5.2 | PASS |
|----------|-----------|-------|------|

|                                         |                               |             |      |
|-----------------------------------------|-------------------------------|-------------|------|
| DL70_V10                                | SABME/P=0                     | 5. 5. 2     | PASS |
| DL70_V12                                | DISC/P=1                      | 5. 5. 3. 2  | PASS |
| DL70_V13                                | DISC/P=0                      | 5. 5. 3. 2  | PASS |
| DL70_V14                                | DM/F=0                        | 5. 7. 1     | PASS |
| DL70_V16                                | DM/F=1                        | 5. 8. 7     | PASS |
| DL70_V17                                | FRMR : Reject RR              | 5. 7. 1     | PASS |
| DL70_V20                                | RR/P=1 : N(R)=V(S)            | 5. 6. 5     | PASS |
| DL70_V21                                | RR/P=0 : N(R)=V(S)            | 5. 6. 5     | PASS |
| DL70_V23                                | RR/F=0 : N(R)=V(S)            | 5. 6. 5     | PASS |
| DL70_V30                                | REJ/P=1 : N(R)=V(S)           | 5. 6. 4     | PASS |
| DL70_V31                                | REJ/P=0 : N(R)=V(S)           | 5. 6. 4     | PASS |
| DL70_V32                                | REJ/F=0 : N(R)=V(S)           | 5. 8. 7     | PASS |
| DL70_V36                                | RNR/P=1 : N(R)=V(S)           | 5. 6. 5     | PASS |
| DL70_V37                                | RNR/P=0 : N(R)=V(S)           | 5. 6. 5     | PASS |
| DL70_V39                                | RNR/F=0 : N(R)=V(S)           | 5. 6. 5     | PASS |
| DL70_V44                                | I/P=1 : N(S)=V(R), N(R)=V(S)  | 5. 6. 2. 1  | PASS |
| DL70_V45                                | I/P=0 : N(S)=V(R), N(R)=V(S)  | 5. 6. 2. 2  | PASS |
| DL70_V46                                | I/P=1 : N(S)<>V(R), N(R)=V(S) | 5. 8. 1     | PASS |
| DL70_V47                                | I/P=0 : N(S)<>V(R), N(R)=V(S) | 5. 8. 1     | PASS |
| DL70_V57                                | T203 Timeout                  | 5. 10. 3. 3 | PASS |
| Test Group: DL80_V State 8.0 Valid Frms |                               |             |      |
| DL80_V08                                | SABME/P=1                     | 5. 5. 2     | PASS |
| DL80_V10                                | SABME/P=0                     | 5. 5. 2     | PASS |
| DL80_V12                                | DISC/P=1                      | 5. 5. 3. 2  | PASS |
| DL80_V13                                | DISC/P=0                      | 5. 5. 3. 2  | PASS |
| DL80_V14                                | DM/F=1                        | 5. 7. 1     | PASS |
| DL80_V15                                | DM/F=0                        | 5. 7. 1     | PASS |
| DL80_V17                                | FRMR : Reject RR              | 5. 7. 1     | PASS |
| DL80_V20                                | RR/P=1 : V(A)<=N(R)<=V(S)     | 5. 6. 5     | PASS |
| DL80_V21                                | RR/P=0 : V(A)<=N(R)<=V(S)     | 5. 6. 5     | PASS |
| DL80_V22                                | RR/F=1 : V(A)<=N(R)<=V(S)     | 5. 6. 5     | PASS |
| DL80_V23                                | RR/F=0 : V(A)<=N(R)<=V(S)     | 5. 6. 5     | PASS |
| DL80_V24                                | REJ/P=1 : V(A)<=N(R)<=V(S)    | 5. 6. 4     | PASS |
| DL80_V25                                | REJ/P=0 : V(A)<=N(R)<=V(S)    | 5. 6. 4     | PASS |

|          |                                         |         |      |
|----------|-----------------------------------------|---------|------|
| DL80_V26 | REJ/F=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V27 | REJ/F=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V28 | RNR/P=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V29 | RNR/P=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V30 | RNR/F=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V31 | RNR/F=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V32 | I/P=1 : $N(S)=V(R)$ , $N(R)=V(S)$       | 5.6.2.1 | PASS |
| DL80_V33 | I/P=0 : $N(S)=V(R)$ , $N(R)=V(S)$       | 5.6.2.2 | PASS |
| DL80_V34 | I/P=1 : $N(S) <> V(R)$ , $N(R)=V(S)$    | 5.8.1   | PASS |
| DL80_V35 | I/P=0 : $N(S) <> V(R)$ , $N(R)=V(S)$    | 5.8.1   | PASS |
| DL80_V44 | T200 Timeout, $RC=N200$                 | 5.6.7   | PASS |
| DL80_V46 | T200 Timeout, $RC < N200$ , $V(A)=V(S)$ | 5.6.7   | PASS |

### 3. Layer 3 Conformance Test Summary Report

Test Suite: CHT-96-BA-L3

Verdicts Assigned

PASS: 57

FAIL: 0

INCONC: 0

Selected Cases: 57

Test Identifier

ITU-T REC. Q.931 Verdict

Test Group: Basic Interconnection Tests

|                                         |       |      |
|-----------------------------------------|-------|------|
| 1. Incoming Call (#21003)               | 5.3.3 | PASS |
| 2. Outgoing Call (#11105)               | 5.3.4 | PASS |
| 3. Outgoing Call (#11106) ( A law call) | 5.3.4 | PASS |
| 4. Outgoing Call (#11107) ( U law call) | 5.3.4 | PASS |

Test Group: U0 TESTS

|                                         |           |      |
|-----------------------------------------|-----------|------|
| #10001: [RC2(1,16), NO_MSG]             | 5.8.3     | PASS |
| #10002: [RL3(1,16), RC_81]              | 5.8.3.2b) | PASS |
| #10005: [SU3(BC,CD#,LLC,HLC), AL+CN+CP] | 5.2.4     | PASS |

|                      |                                         |         |      |
|----------------------|-----------------------------------------|---------|------|
| #10006:              | [SU2(SCI, BC, CD#, LLC, HLC), AL+CN+CP] | 5.2.5   | PASS |
| #10007:              | [SU6(BC, LLC, HLC), AL+CN+CP]           | 5.2.6   | PASS |
| #10008:              | [SU4(BCAP, LLC, HLC), RC_88+NO_MSG]     | 5.2.2   | PASS |
| #20002:              | [<IUT!SETUP>, SU]                       | 5.1.3   | PASS |
| Test Group: U1 TESTS |                                         |         |      |
| #10101:              | [CP2, NO_MSG, U3]                       | 5.1.5.1 | PASS |
| #10102:              | [RC2(1, 16), NO_MSG, U0]                | 5.8.4   | PASS |
| #10103:              | [RL3(1, 16), RC]                        | 5.3.2   | PASS |
| #10106:              | [SQ2, ST]                               | 5.8.10  | PASS |
| Test Group: U3 TESTS |                                         |         |      |
| #10301:              | [AL2, NO_MSG, U4]                       | 5.1.7   | PASS |
| #10302:              | [CN2, ST(97, 8, 101)+SQ+CA+NO_MSG]      | 5.1.8   | PASS |
| #10303:              | [DI2(1, 16), RL]                        | 5.3.4   | PASS |
| #10304:              | [IN2(1), NO_MSG]                        | 5.2.4   | PASS |
| #10305:              | [PG2, NO_MSG]                           | 5.1.6   | PASS |
| #10306:              | [RC2(1, 16), NO_MSG, U0]                | 5.8.4   | PASS |
| #10307:              | [RL3(1, 16), RC]                        | 5.3.4   | PASS |
| #10308:              | [SQ2, ST]                               | 5.8.10  | PASS |
| #20301:              | [<IUT!DISC>, DI_16]                     | 5.3.3   | PASS |
| Test Group: U4 TESTS |                                         |         |      |
| #10401:              | [CN2, CA+NO_MSG]                        | 5.1.8   | PASS |
| #10402:              | [DI2(1, 16), RL]                        | 5.3.4   | PASS |
| #10403:              | [IN2(1), NO_MSG]                        | 5.2.4   | PASS |
| #10404:              | [PG2, NO_MSG ST]                        | 5.1.6   | PASS |
| #10405:              | [RC2(1, 16), NO_MSG, U0]                | 5.8.4   | PASS |
| #10406:              | [RL3(1, 16), RC]                        | 5.8.4   | PASS |
| #10407:              | [SQ2, ST]                               | 5.8.10  | PASS |
| #20401:              | [<IUT!DISC>, DI_16]                     | 5.3.3   | PASS |
| Test Group: U8 TESTS |                                         |         |      |
| #10801:              | [CA2, NO_MSG, U10]                      | 5.2.7   | PASS |
| #10802:              | [DI2(0, 16), RL]                        | 5.3.4   | PASS |
| #10803:              | [IN2(0), NO_MSG]                        | 5.2.4   | PASS |
| #10804:              | [RC2(0, 16), NO_MSG, U0]                | 5.8.4   | PASS |
| #10805:              | [RL3(0, 16), RC]                        | 5.3.2   | PASS |

|                       |                          |        |      |
|-----------------------|--------------------------|--------|------|
| #10806:               | [SQ2, ST]                | 5.8.10 | PASS |
| #20801:               | [T313(4S) TIMEOUT, DI]   | 5.2.8  | PASS |
| Test Group: U10 TESTS |                          |        |      |
| #11001:               | [DI2(0,16), RL]          | 5.3.4  | PASS |
| #11002:               | [IN2(0), NO_MSG]         | 5.2.4  | PASS |
| #11003:               | [NO2(0), NO_MSG]         | 5.9    | PASS |
| #11004:               | [RC2(0,16), NO_MSG, U0]  | 5.8.4  | PASS |
| #11005:               | [RL3(0,16), RC]          | 5.8.4  | PASS |
| #11006:               | [SQ2, ST]                | 5.8.10 | PASS |
| #21003:               | [<IUT!DISC>, DI_16]      | 5.3.3  | PASS |
| Test Group: U11 TESTS |                          |        |      |
| #11101:               | [DI2(1,16), RL]          | 5.3.5  | PASS |
| #11102:               | [IN2(1), NO_MSG]         | 5.2.4  | PASS |
| #11103:               | [NO2(1), NO_MSG ST]      | 5.9    | PASS |
| #11104:               | [RC2(1,16), NO_MSG, U0]  | 5.8.4  | PASS |
| #11105:               | [RL3(1,16), RC]          | 5.3.4  | PASS |
| #21101:               | *[T305(30S) TIMEOUT, RL] | 5.3.3  | PASS |
| Test Group: U19 TESTS |                          |        |      |
| #11902:               | [IN2(0), NO_MSG ST]      | 5      | PASS |
| #11903:               | [RC2(0,16), NO_MSG, U0]  | 5.3.4  | PASS |
| #11904:               | [RL3(0,16), NO_MSG, U0]  | 5.3.5  | PASS |
| #11905:               | [SQ2, ST]                | 5.8.10 | PASS |
| #21901:               | *[T308(4S) TIMEOUT, RL]  | 5.3.3  | PASS |

原級速率接取界面測試項目表  
(T1介面【1.544Mbit/s】)

## 1.Layer 1 Conformance Test System Summary Report

Test Suite: CHT-96-PA-L1

Verdicts Assigned

PASS: 5

FAIL: 0

INCONC: 0

Selected Cases: 5

Test Identifier

ITU-T REC. I.431

Verdict

Test Group: Electrical/Functional  
characteristic test

|                         |         |      |
|-------------------------|---------|------|
| 1. Line code            | 4.1.3   | PASS |
| 2. Pulse shape          | 4.1.4.2 | PASS |
| 3. Interframe time fill | 4.6.2   | PASS |
| 4. Bit rate             | 4.1.1   | PASS |
| 5. Jitter               | 4.5.1   | PASS |

## 2.Layer 2 Conformance Test System Summary Report

Test Suite: CHT-96-PA-L2

Verdicts Assigned

PASS:74

FAIL: 0

INCONC:0

Selected Cases: 74

| Test Identifier                         | ITU-T REC. Q.921 | Verdict |
|-----------------------------------------|------------------|---------|
| Test Group: DS70_V State 7.0 Valid Frms |                  |         |
| DS70_V01 Window Rotation                | 5.9.5            | PASS    |
| Test Group: DL40_V State 4.0 Valid Frms |                  |         |
| DL40_V04 SABME/P=1                      | 5.5.1.2          | PASS    |
| DL40_V06 SABME/P=0                      | 5.5.1.2          | PASS    |
| DL40_V08 DISC/P=1                       | 5.5.4            | PASS    |
| DL40_V09 DISC/P=0                       | 5.5.4            | PASS    |
| DL40_V10 DM/F=1                         | 5.5.4            | PASS    |
| DL40_V11 DM/F=0                         | 5.5.4            | PASS    |
| Test Group: DL70_V State 7.0 Valid Frms |                  |         |
| DL70_V03 I Frame in Queue : Window Open | 5.6.1            | PASS    |
| DL70_V08 SABME/P=1                      | 5.5.2            | PASS    |
| DL70_V10 SABME/P=0                      | 5.5.2            | PASS    |
| DL70_V12 DISC/P=1                       | 5.5.3.2          | PASS    |
| DL70_V13 DISC/P=0                       | 5.5.3.2          | PASS    |
| DL70_V14 DM/F=0                         | 5.7.1            | PASS    |
| DL70_V16 DM/F=1                         | 5.8.7            | PASS    |
| DL70_V17 FRMR : Reject RR               | 5.7.1            | PASS    |
| DL70_V20 RR/P=1 : N(R)=V(S)             | 5.6.5            | PASS    |
| DL70_V21 RR/P=0 : N(R)=V(S)             | 5.6.5            | PASS    |
| DL70_V23 RR/F=0 : N(R)=V(S)             | 5.6.5            | PASS    |
| DL70_V27 RR/P=1 : V(A)=N(R)<V(S)        | 5.6.5            | PASS    |



|          |                                      |          |      |
|----------|--------------------------------------|----------|------|
| DL70_V28 | RR/P=0 : $V(A)=N(R)<V(S)$            | 5.6.5    | PASS |
| DL70_V29 | RR/F=0 : $V(A)=N(R)<V(S)$            | 5.6.5    | PASS |
| DL70_V30 | REJ/P=1 : $N(R)=V(S)$                | 5.6.4    | PASS |
| DL70_V31 | REJ/P=0 : $N(R)=V(S)$                | 5.6.4    | PASS |
| DL70_V32 | REJ/F=0 : $N(R)=V(S)$                | 5.8.7    | PASS |
| DL70_V33 | REJ/P=1 : $V(A)\leq N(R)<V(S)$       | 5.6.4    | PASS |
| DL70_V34 | REJ/P=0 : $V(A)\leq N(R)<V(S)$       | 5.6.4    | PASS |
| DL70_V35 | REJ/F=0 : $V(A)\leq N(R)<V(S)$       | 5.8.7    | PASS |
| DL70_V36 | RNR/P=1 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V37 | RNR/P=0 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V39 | RNR/F=0 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V40 | RNR/P=1 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V41 | RNR/P=0 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V43 | RNR/F=0 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V44 | I/P=1 : $N(S)=V(R), N(R)=V(S)$       | 5.6.2.1  | PASS |
| DL70_V45 | I/P=0 : $N(S)=V(R), N(R)=V(S)$       | 5.6.2.2  | PASS |
| DL70_V46 | I/P=1 : $N(S)<>V(R), N(R)=V(S)$      | 5.8.1    | PASS |
| DL70_V47 | I/P=0 : $N(S)<>V(R), N(R)=V(S)$      | 5.8.1    | PASS |
| DL70_V52 | I/P=1 : $N(S)=V(R), V(A)=N(R)<V(S)$  | 5.6.2.1  | PASS |
| DL70_V53 | I/P=0 : $N(S)=V(R), V(A)=N(R)<V(S)$  | 5.6.2.2  | PASS |
| DL70_V54 | I/P=1 : $N(S)<>V(R), V(A)=N(R)<V(S)$ | 5.8.1    | PASS |
| DL70_V55 | I/P=0 : $N(S)<>V(R), V(A)=N(R)<V(S)$ | 5.8.1    | PASS |
| DL70_V56 | T200 Timeout, $RC<N200$              | 5.6.7    | PASS |
| DL70_V57 | T203 Timeout                         | 5.10.3.3 | PASS |

Test Group: DL80\_V State 8.0 Valid Frms

|          |                                |         |      |
|----------|--------------------------------|---------|------|
| DL80_V03 | I Frame in Queue : Window Open | 5.6.1   | PASS |
| DL80_V08 | SABME/P=1                      | 5.5.2   | PASS |
| DL80_V10 | SABME/P=0                      | 5.5.2   | PASS |
| DL80_V12 | DISC/P=1                       | 5.5.3.2 | PASS |
| DL80_V13 | DISC/P=0                       | 5.5.3.2 | PASS |
| DL80_V14 | DM/F=1                         | 5.7.1   | PASS |
| DL80_V15 | DM/F=0                         | 5.7.1   | PASS |
| DL80_V17 | FRMR : Reject RR               | 5.7.1   | PASS |

|          |                                          |         |      |
|----------|------------------------------------------|---------|------|
| DL80_V20 | RR/P=1 : $V(A) \leq N(R) \leq V(S)$      | 5.6.5   | PASS |
| DL80_V21 | RR/P=0 : $V(A) \leq N(R) \leq V(S)$      | 5.6.5   | PASS |
| DL80_V22 | RR/F=1 : $V(A) \leq N(R) \leq V(S)$      | 5.6.5   | PASS |
| DL80_V23 | RR/F=0 : $V(A) \leq N(R) \leq V(S)$      | 5.6.5   | PASS |
| DL80_V24 | REJ/P=1 : $V(A) \leq N(R) \leq V(S)$     | 5.6.4   | PASS |
| DL80_V25 | REJ/P=0 : $V(A) \leq N(R) \leq V(S)$     | 5.6.4   | PASS |
| DL80_V26 | REJ/F=1 : $V(A) \leq N(R) \leq V(S)$     | 5.6.4   | PASS |
| DL80_V27 | REJ/F=0 : $V(A) \leq N(R) \leq V(S)$     | 5.6.4   | PASS |
| DL80_V28 | RNR/P=1 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V29 | RNR/P=0 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V30 | RNR/F=1 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V31 | RNR/F=0 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V32 | I/P=1 : $N(S)=V(R), N(R)=V(S)$           | 5.6.2.1 | PASS |
| DL80_V33 | I/P=0 : $N(S)=V(R), N(R)=V(S)$           | 5.6.2.2 | PASS |
| DL80_V34 | I/P=1 : $N(S) <> V(R), N(R)=V(S)$        | 5.8.1   | PASS |
| DL80_V35 | I/P=0 : $N(S) <> V(R), N(R)=V(S)$        | 5.8.1   | PASS |
| DL80_V40 | I/P=1 : $N(S)=V(R), V(A)=N(R) < V(S)$    | 5.6.2.1 | PASS |
| DL80_V41 | I/P=0 : $N(S)=V(R), V(A)=N(R) < V(S)$    | 5.6.2.2 | PASS |
| DL80_V42 | I/P=1 : $N(S) <> V(R), V(A)=N(R) < V(S)$ | 5.8.1   | PASS |
| DL80_V43 | I/P=0 : $N(S) <> V(R), V(A)=N(R) < V(S)$ | 5.8.1   | PASS |
| DL80_V44 | T200 Timeout, $RC=N200$                  | 5.6.7   | PASS |
| DL80_V45 | T200 Timeout, $RC < N200, V(A) < V(S)$   | 5.6.7   | PASS |
| DL80_V46 | T200 Timeout, $RC < N200, V(A)=V(S)$     | 5.6.7   | PASS |

### 3.Layer 3 Conformance Test System Summary Report

Test Suite: CHT-96-PA-L3

Verdicts Assigned

PASS: 55

FAIL: 0

INCONC: 0

Selected Cases: 55

Test Identifier

ITU-T REC. Q.931 Verdict

Test Group: Basic Interconnection Tests

- |                           |       |      |
|---------------------------|-------|------|
| 1. Incoming Call (#21003) | 5.3.3 | PASS |
| 2. Outgoing Call (#11105) | 5.3.4 | PASS |

Test Group: U0 TESTS

- |                                             |           |      |
|---------------------------------------------|-----------|------|
| #10001: [RC2(1,16), NO_MSG]                 | 5.8.3     | PASS |
| #10002: [RL3(1,16), RC_81]                  | 5.8.3.2B) | PASS |
| #10005: [SU3(BC,CD#,LLC,HLC), AL+CN+CP]     | 5.2.4     | PASS |
| #10006: [SU2(SCI,BC,CD#,LLC,HLC), AL+CN+CP] | 5.2.5     | PASS |
| #10007: [SU6(BC,LLC,HLC), AL+CN+CP]         | 5.2.6     | PASS |
| #10008: [SU4(IBC,LLC,HLC), RC_88+NO_MSG]    | 5.2.2     | PASS |
| #20002: [<IUT!SETUP>, SU]                   | 5.1.3     | PASS |

Test Group: U1 TESTS

- |                                 |         |      |
|---------------------------------|---------|------|
| #10101: [CP2, NO_MSG, U3]       | 5.1.5.1 | PASS |
| #10102: [RC2(1,16), NO_MSG, U0] | 5.8.4   | PASS |
| #10103: [RL3(1,16), RC]         | 5.3.2   | PASS |
| #10106: [SQ2, ST]               | 5.8.10  | PASS |

Test Group: U3 TESTS

- |                                          |       |      |
|------------------------------------------|-------|------|
| #10301: [AL2, NO_MSG, U4]                | 5.1.7 | PASS |
| #10302: [CN2, ST(97,8,101)+SQ+CA+NO_MSG] | 5.1.8 | PASS |
| #10303: [DI2(1,16), RL]                  | 5.3.4 | PASS |
| #10304: [IN2(1), NO_MSG]                 | 5.2.4 | PASS |

|                       |                         |        |      |
|-----------------------|-------------------------|--------|------|
| #10305:               | [PG2, NO_MSG]           | 5.1.6  | PASS |
| #10306:               | [RC2(1,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10307:               | [RL3(1,16), RC]         | 5.3.4  | PASS |
| #10308:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20301:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U4 TESTS  |                         |        |      |
| #10401:               | [CN2, CA+NO_MSG]        | 5.1.8  | PASS |
| #10402:               | [DI2(1,16), RL]         | 5.3.4  | PASS |
| #10403:               | [IN2(1), NO_MSG]        | 5.2.4  | PASS |
| #10404:               | [PG2, NO_MSG ST]        | 5.1.6  | PASS |
| #10405:               | [RC2(1,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10406:               | [RL3(1,16), RC]         | 5.8.4  | PASS |
| #10407:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20401:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U8 TESTS  |                         |        |      |
| #10801:               | [CA2, NO_MSG, U10]      | 5.2.7  | PASS |
| #10802:               | [DI2(0,16), RL]         | 5.3.4  | PASS |
| #10803:               | [IN2(0), NO_MSG]        | 5.2.4  | PASS |
| #10804:               | [RC2(0,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10805:               | [RL3(0,16), RC]         | 5.3.2  | PASS |
| #10806:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20801:               | [T313(4S) TIMEOUT, DI]  | 5.2.8  | PASS |
| Test Group: U10 TESTS |                         |        |      |
| #11001:               | [DI2(0,16), RL]         | 5.3.4  | PASS |
| #11002:               | [IN2(0), NO_MSG]        | 5.2.4  | PASS |
| #11003:               | [NO2(0), NO_MSG]        | 5.9    | PASS |
| #11004:               | [RC2(0,16), NO_MSG, U0] | 5.8.4  | PASS |
| #11005:               | [RL3(0,16), RC]         | 5.8.4  | PASS |
| #11006:               | [SQ2, ST]               | 5.8.10 | PASS |
| #21003:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U11 TESTS |                         |        |      |
| #11101:               | [DI2(1,16), RL]         | 5.3.5  | PASS |
| #11102:               | [IN2(1), NO_MSG]        | 5.2.4  | PASS |
| #11103:               | [NO2(1), NO_MSG ST]     | 5.9    | PASS |

|                       |                          |        |      |
|-----------------------|--------------------------|--------|------|
| #11104:               | [RC2(1,16), NO_MSG, U0]  | 5.8.4  | PASS |
| #11105:               | [RL3(1,16), RC]          | 5.3.4  | PASS |
| #21101:               | *[T305(30S) TIMEOUT, RL] | 5.3.3  | PASS |
| Test Group: U19 TESTS |                          |        |      |
| #11902:               | [IN2(0), NO_MSG ST]      | 5      | PASS |
| #11903:               | [RC2(0,16), NO_MSG, U0]  | 5.3.4  | PASS |
| #11904:               | [RL3(0,16), NO_MSG, U0]  | 5.3.5  | PASS |
| #11905:               | [SQ2, ST]                | 5.8.10 | PASS |
| #21901:               | *[T308(4S) TIMEOUT, RL]  | 5.3.3  | PASS |

原級速率接取界面測試項目表  
(E1介面【2.048Mbit/s】)

## 1.Layer 1 Conformance Test

Test Suite: CHT-98-PA-L1

Verdicts Assigned

PASS: 5

FAIL: 0

INCONC: 0

Selected Cases: 5

Test Identifier

ITU-T REC. I.431

Verdict

Test Group: Electrical/Functional  
characteristic test

|                      |         |      |
|----------------------|---------|------|
| 1. Bit rate          | 5.3     | PASS |
| 2. Line code         | 5.1     | PASS |
| 3. Pulse shape (1)   | 5.1     | PASS |
| 4. Pulse shape (2)   | 5.1     | PASS |
| 5. Idle channel code | 5.2.4.2 | PASS |

## 2.Layer 2 Conformance Test System Summary Report

Test Suite: CHT-96-PA-L2

Verdicts Assigned

PASS:74

FAIL: 0

INCONC:0

Selected Cases: 74

| Test Identifier                         | ITU-T REC. Q. 921 | Verdict |
|-----------------------------------------|-------------------|---------|
| Test Group: DS70_V State 7.0 Valid Frms |                   |         |
| DS70_V01 Window Rotation                | 5.9.5             | PASS    |
| Test Group: DL40_V State 4.0 Valid Frms |                   |         |
| DL40_V04 SABME/P=1                      | 5.5.1.2           | PASS    |
| DL40_V06 SABME/P=0                      | 5.5.1.2           | PASS    |
| DL40_V08 DISC/P=1                       | 5.5.4             | PASS    |
| DL40_V09 DISC/P=0                       | 5.5.4             | PASS    |
| DL40_V10 DM/F=1                         | 5.5.4             | PASS    |
| DL40_V11 DM/F=0                         | 5.5.4             | PASS    |
| Test Group: DL70_V State 7.0 Valid Frms |                   |         |
| DL70_V03 I Frame in Queue : Window Open | 5.6.1             | PASS    |
| DL70_V08 SABME/P=1                      | 5.5.2             | PASS    |
| DL70_V10 SABME/P=0                      | 5.5.2             | PASS    |
| DL70_V12 DISC/P=1                       | 5.5.3.2           | PASS    |
| DL70_V13 DISC/P=0                       | 5.5.3.2           | PASS    |
| DL70_V14 DM/F=0                         | 5.7.1             | PASS    |
| DL70_V16 DM/F=1                         | 5.8.7             | PASS    |
| DL70_V17 FRMR : Reject RR               | 5.7.1             | PASS    |
| DL70_V20 RR/P=1 : N(R)=V(S)             | 5.6.5             | PASS    |
| DL70_V21 RR/P=0 : N(R)=V(S)             | 5.6.5             | PASS    |
| DL70_V23 RR/F=0 : N(R)=V(S)             | 5.6.5             | PASS    |
| DL70_V27 RR/P=1 : V(A)=N(R)<V(S)        | 5.6.5             | PASS    |
| DL70_V28 RR/P=0 : V(A)=N(R)<V(S)        | 5.6.5             | PASS    |

|                                         |                                      |          |      |
|-----------------------------------------|--------------------------------------|----------|------|
| DL70_V29                                | RR/F=0 : $V(A)=N(R)<V(S)$            | 5.6.5    | PASS |
| DL70_V30                                | REJ/P=1 : $N(R)=V(S)$                | 5.6.4    | PASS |
| DL70_V31                                | REJ/P=0 : $N(R)=V(S)$                | 5.6.4    | PASS |
| DL70_V32                                | REJ/F=0 : $N(R)=V(S)$                | 5.8.7    | PASS |
| DL70_V33                                | REJ/P=1 : $V(A)\leq N(R)<V(S)$       | 5.6.4    | PASS |
| DL70_V34                                | REJ/P=0 : $V(A)\leq N(R)<V(S)$       | 5.6.4    | PASS |
| DL70_V35                                | REJ/F=0 : $V(A)\leq N(R)<V(S)$       | 5.8.7    | PASS |
| DL70_V36                                | RNR/P=1 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V37                                | RNR/P=0 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V39                                | RNR/F=0 : $N(R)=V(S)$                | 5.6.5    | PASS |
| DL70_V40                                | RNR/P=1 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V41                                | RNR/P=0 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V43                                | RNR/F=0 : $V(A)\leq N(R)<V(S)$       | 5.6.5    | PASS |
| DL70_V44                                | I/P=1 : $N(S)=V(R), N(R)=V(S)$       | 5.6.2.1  | PASS |
| DL70_V45                                | I/P=0 : $N(S)=V(R), N(R)=V(S)$       | 5.6.2.2  | PASS |
| DL70_V46                                | I/P=1 : $N(S)<>V(R), N(R)=V(S)$      | 5.8.1    | PASS |
| DL70_V47                                | I/P=0 : $N(S)<>V(R), N(R)=V(S)$      | 5.8.1    | PASS |
| DL70_V52                                | I/P=1 : $N(S)=V(R), V(A)=N(R)<V(S)$  | 5.6.2.1  | PASS |
| DL70_V53                                | I/P=0 : $N(S)=V(R), V(A)=N(R)<V(S)$  | 5.6.2.2  | PASS |
| DL70_V54                                | I/P=1 : $N(S)<>V(R), V(A)=N(R)<V(S)$ | 5.8.1    | PASS |
| DL70_V55                                | I/P=0 : $N(S)<>V(R), V(A)=N(R)<V(S)$ | 5.8.1    | PASS |
| DL70_V56                                | T200 Timeout, $RC<N200$              | 5.6.7    | PASS |
| DL70_V57                                | T203 Timeout                         | 5.10.3.3 | PASS |
| Test Group: DL80_V State 8.0 Valid Frms |                                      |          |      |
| DL80_V03                                | I Frame in Queue : Window Open       | 5.6.1    | PASS |
| DL80_V08                                | SABME/P=1                            | 5.5.2    | PASS |
| DL80_V10                                | SABME/P=0                            | 5.5.2    | PASS |
| DL80_V12                                | DISC/P=1                             | 5.5.3.2  | PASS |
| DL80_V13                                | DISC/P=0                             | 5.5.3.2  | PASS |
| DL80_V14                                | DM/F=1                               | 5.7.1    | PASS |
| DL80_V15                                | DM/F=0                               | 5.7.1    | PASS |
| DL80_V17                                | FRMR : Reject RR                     | 5.7.1    | PASS |
| DL80_V20                                | RR/P=1 : $V(A)\leq N(R)\leq V(S)$    | 5.6.5    | PASS |
| DL80_V21                                | RR/P=0 : $V(A)\leq N(R)\leq V(S)$    | 5.6.5    | PASS |



|          |                                         |         |      |
|----------|-----------------------------------------|---------|------|
| DL80_V22 | RR/F=1 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V23 | RR/F=0 : $V(A) \leq N(R) \leq V(S)$     | 5.6.5   | PASS |
| DL80_V24 | REJ/P=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V25 | REJ/P=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V26 | REJ/F=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V27 | REJ/F=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.4   | PASS |
| DL80_V28 | RNR/P=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V29 | RNR/P=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V30 | RNR/F=1 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V31 | RNR/F=0 : $V(A) \leq N(R) \leq V(S)$    | 5.6.5   | PASS |
| DL80_V32 | I/P=1 : $N(S)=V(R), N(R)=V(S)$          | 5.6.2.1 | PASS |
| DL80_V33 | I/P=0 : $N(S)=V(R), N(R)=V(S)$          | 5.6.2.2 | PASS |
| DL80_V34 | I/P=1 : $N(S) < V(R), N(R)=V(S)$        | 5.8.1   | PASS |
| DL80_V35 | I/P=0 : $N(S) < V(R), N(R)=V(S)$        | 5.8.1   | PASS |
| DL80_V40 | I/P=1 : $N(S)=V(R), V(A)=N(R) < V(S)$   | 5.6.2.1 | PASS |
| DL80_V41 | I/P=0 : $N(S)=V(R), V(A)=N(R) < V(S)$   | 5.6.2.2 | PASS |
| DL80_V42 | I/P=1 : $N(S) < V(R), V(A)=N(R) < V(S)$ | 5.8.1   | PASS |
| DL80_V43 | I/P=0 : $N(S) < V(R), V(A)=N(R) < V(S)$ | 5.8.1   | PASS |
| DL80_V44 | T200 Timeout, $RC=N200$                 | 5.6.7   | PASS |
| DL80_V45 | T200 Timeout, $RC < N200, V(A) < V(S)$  | 5.6.7   | PASS |
| DL80_V46 | T200 Timeout, $RC < N200, V(A)=V(S)$    | 5.6.7   | PASS |

### 3.Layer 3 Conformance Test

Test Suite: CHT-96-PA-L3

Verdicts Assigned

PASS: 55

FAIL: 0

INCONC: 0

Selected Cases: 55

Test Identifier

ITU-T REC. Q.931 Verdict

Test Group: Basic Interconnection Tests

- |                           |       |      |
|---------------------------|-------|------|
| 1. Incoming Call (#21003) | 5.3.3 | PASS |
| 2. Outgoing Call (#11105) | 5.3.4 | PASS |

Test Group: U0 TESTS

- |                                                 |           |      |
|-------------------------------------------------|-----------|------|
| #10001: [RC2(1,16), NO_MSG]                     | 5.8.3     | PASS |
| #10002: [RL3(1,16), RC_81]                      | 5.8.3.2B) | PASS |
| #10005: [SU3(BC, CD#, LLC, HLC), AL+CN+CP]      | 5.2.4     | PASS |
| #10006: [SU2(SCI, BC, CD#, LLC, HLC), AL+CN+CP] | 5.2.5     | PASS |
| #10007: [SU6(BC, LLC, HLC), AL+CN+CP]           | 5.2.6     | PASS |
| #10008: [SU4(BCAP, LLC, HLC), RC_88+NO_MSG]     | 5.2.2     | PASS |
| #20002: [<IUT!SETUP>, SU]                       | 5.1.3     | PASS |

Test Group: U1 TESTS

- |                                 |         |      |
|---------------------------------|---------|------|
| #10101: [CP2, NO_MSG, U3]       | 5.1.5.1 | PASS |
| #10102: [RC2(1,16), NO_MSG, U0] | 5.8.4   | PASS |
| #10103: [RL3(1,16), RC]         | 5.3.2   | PASS |
| #10106: [SQ2, ST]               | 5.8.10  | PASS |

Test Group: U3 TESTS

- |                                            |       |      |
|--------------------------------------------|-------|------|
| #10301: [AL2, NO_MSG, U4]                  | 5.1.7 | PASS |
| #10302: [CN2, ST(97, 8, 101)+SQ+CA+NO_MSG] | 5.1.8 | PASS |
| #10303: [DI2(1,16), RL]                    | 5.3.4 | PASS |
| #10304: [IN2(1), NO_MSG]                   | 5.2.4 | PASS |
| #10305: [PG2, NO_MSG]                      | 5.1.6 | PASS |

|                       |                         |        |      |
|-----------------------|-------------------------|--------|------|
| #10306:               | [RC2(1,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10307:               | [RL3(1,16), RC]         | 5.3.4  | PASS |
| #10308:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20301:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U4 TESTS  |                         |        |      |
| #10401:               | [CN2, CA+NO_MSG]        | 5.1.8  | PASS |
| #10402:               | [DI2(1,16), RL]         | 5.3.4  | PASS |
| #10403:               | [IN2(1), NO_MSG]        | 5.2.4  | PASS |
| #10404:               | [PG2, NO_MSG ST]        | 5.1.6  | PASS |
| #10405:               | [RC2(1,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10406:               | [RL3(1,16), RC]         | 5.8.4  | PASS |
| #10407:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20401:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U8 TESTS  |                         |        |      |
| #10801:               | [CA2, NO_MSG, U10]      | 5.2.7  | PASS |
| #10802:               | [DI2(0,16), RL]         | 5.3.4  | PASS |
| #10803:               | [IN2(0), NO_MSG]        | 5.2.4  | PASS |
| #10804:               | [RC2(0,16), NO_MSG, U0] | 5.8.4  | PASS |
| #10805:               | [RL3(0,16), RC]         | 5.3.2  | PASS |
| #10806:               | [SQ2, ST]               | 5.8.10 | PASS |
| #20801:               | [T313(4S) TIMEOUT, DI]  | 5.2.8  | PASS |
| Test Group: U10 TESTS |                         |        |      |
| #11001:               | [DI2(0,16), RL]         | 5.3.4  | PASS |
| #11002:               | [IN2(0), NO_MSG]        | 5.2.4  | PASS |
| #11003:               | [NO2(0), NO_MSG]        | 5.9    | PASS |
| #11004:               | [RC2(0,16), NO_MSG, U0] | 5.8.4  | PASS |
| #11005:               | [RL3(0,16), RC]         | 5.8.4  | PASS |
| #11006:               | [SQ2, ST]               | 5.8.10 | PASS |
| #21003:               | [<IUT!DISC>, DI_16]     | 5.3.3  | PASS |
| Test Group: U11 TESTS |                         |        |      |
| #11101:               | [DI2(1,16), RL]         | 5.3.5  | PASS |
| #11102:               | [IN2(1), NO_MSG]        | 5.2.4  | PASS |
| #11103:               | [NO2(1), NO_MSG ST]     | 5.9    | PASS |
| #11104:               | [RC2(1,16), NO_MSG, U0] | 5.8.4  | PASS |

|                                  |        |      |
|----------------------------------|--------|------|
| #11105: [RL3(1,16), RC]          | 5.3.4  | PASS |
| #21101: *[T305(30S) TIMEOUT, RL] | 5.3.3  | PASS |
| Test Group: U19 TESTS            |        |      |
| #11902: [IN2(0), NO_MSG ST]      | 5      | PASS |
| #11903: [RC2(0,16), NO_MSG, U0]  | 5.3.4  | PASS |
| #11904: [RL3(0,16), NO_MSG, U0]  | 5.3.5  | PASS |
| #11905: [SQ2, ST]                | 5.8.10 | PASS |
| #21901: *[T308(4S) TIMEOUT, RL]  | 5.3.3  | PASS |