

Troubleshooting Failure Caused by the Absence of TN3270 Client's Model Type in the LU Major Node

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Introduction

This document explains the process of troubleshooting the failure caused by the absence of TN3270 client's model type in the LU major node.

Before You Begin

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

There are no specific prerequisites for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Problem

The customer cannot connect to the CIP TN3270 server using an ATTACHMATE client.

- Use the **sho ext c1/2 tn3270 pu puname lu locaddr history** command to debug the problem, as shown below:

```
Router#sho ext c1/2 tn3270 pu ppwcipa lu 2 history

lu      name      client-ip:tcp      state      model      frames in out      idle for
2      CIPA02      131.219.227.47:1754  P-BIND      3279S2E      5          4          0:14:59

pu is PPWCIPA, lu is DYNAMIC type 2, negotiated TN3270E
                        ^^^^^^^^
```

- This is a TN3270E client. It expects SCS data when not bound. Also note the model is *3279S2E* and the state is **P-BIND**.

bytes 157 in, 1092 out; RuSize 256 in, 256 out; NegRsp 0 in, 1 out
pacing window 0 in, 0 out; credits 0 in, queue-size 0 in, 0 out
traces:

```

Client connect req
Reply PSID pos rsp
actlu req
Neg rsp from host
OUT len=12 2Dxxxxxxxx776B8000D0201
IN len=25 xxxxxxxxxxx77EB8000D0201000000

```

- The next entry is the USS10 message coming out from the host in SCS. This is normal behavior expected by the client.

```

OUT len=972 2Cxxxxxxxx010380004015404040
IN len=9 2C0000020001838000

```

- The client is sending in a logon in SCS, which is expected:

The client is sending in a logon in SCS, which is expected:

- But the host did not like it:

```

OUT len=13 2Cxxxxxxxx0187922010030000
                ^^^^^^^^

```

- The Sense Code 10030000 indicates that the *Function requested is not supported*.

```

OUT len=95 2Cxxxxxxxx02038000F57A1D40C5
IN len=9 2C0000020002838000

```

- This is because all the LUs are configured in the LUGROUP Major Node with SSCPFM=USS3270:

327905E	LU	DLOGMOD=GMOD5E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327904E	LU	DLOGMOD=GMOD4E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327903E	LU	DLOGMOD=GMOD3E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327902E	LU	DLOGMOD=GMOD2E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327805E	LU	DLOGMOD=GMOD5E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327804E	LU	DLOGMOD=GMOD4E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327803E	LU	DLOGMOD=GMOD3E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327802E	LU	DLOGMOD=GMOD2E,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327805	LU	DLOGMOD=D3278M5,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327804	LU	DLOGMOD=D3278M4,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327803	LU	DLOGMOD=D3278M3,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
327802	LU	DLOGMOD=D3278M2,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X
@	LU	DLOGMOD=D3278M2,MODETAB=MODETAB, USSTAB=USSPPW,SSCPFM=USS3270	X

The above table has no support for TN3270E. For example, the Attachmate client received a model of 3279S2E, but there is no entry. Therefore, it would have received the default "@" entry, which does not work.

Solution

Below, you can see what the user needs in the table:

Option 1

A new USSTAB with USS10 in 3270DS (Call this file USSPPWS) will be needed to get a consistent configuration. Then, a new entry for this specific model type 3279S2E would have to be added to the table with a USSTAB with USS10 in SCS format (call USSPPW, the existing one) and SSCPFM=USSSCS. This works with any release of the CIP TN3270 server software.

327905E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327904E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327903E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327902E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327805E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327804E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327803E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327802E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327805	LU	DLOGMOD=D3278M5, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327804	LU	DLOGMOD=D3278M4, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327803	LU	DLOGMOD=D3278M3, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
327802	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X
*			
3279S5E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279S4E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279S3E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279S2E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S5E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S4E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S3E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S2E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S5	LU	DLOGMOD=D3278M5, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S4	LU	DLOGMOD=D3278M4, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S3	LU	DLOGMOD=D3278M3, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278S2	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
@@@S@	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
*			
@	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPWS, SSCPFM=USS3270	X

Option 2

Use a CIP TN3270 Server code release with automatic translation. This feature allows the detection of an SCS datastream USS message being sent to a client that wants 3270DS and to fix it on the fly.

Note: The user still needs to ensure that the USSTAB and SSCPFM parameters are consistent: either that USSTAB points to an SCS message and SSCPFM=USSSCS, or that USSTAB points to a 3270DS message and SSCPFM=USS3270.

For this particular case, SSCPFM must be USSSCS for all the model LUs defined in the LUGROUP Major Node, as shown below:

3279@5E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279@4E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279@3E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3279@2E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@5E	LU	DLOGMOD=GMOD5E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@4E	LU	DLOGMOD=GMOD4E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@3E	LU	DLOGMOD=GMOD3E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@2E	LU	DLOGMOD=GMOD2E, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@5	LU	DLOGMOD=D3278M5, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@4	LU	DLOGMOD=D3278M4, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@3	LU	DLOGMOD=D3278M3, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
3278@2	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X
*			
@	LU	DLOGMOD=D3278M2, MODETAB=MODETAB, USSTAB=USSPPW, SSCPFM=USSSCS	X

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