

IEEE 802.17 Maintenance Request 0054

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Standard 802.17-2004 Page 339 Subclause 11.6.5.5 Figure _____ Table _____

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Perceived Problem [If more space is needed, please provide an additional file, preferably as plain text.]

The if statement
if (ringlet != ri && topoEntry[Other(ringlet)][1].valid && tp.macAddress
== topoEntry[Other(ringlet)][1].macAddress) { awayState = Max(awayState, tp.spanProtState[ri]); break; }

is designed to prevent WTR from being pre-empted when a broken span is reconnected in a ring with 2 stations. WTR is being pre-empted because this if statement is not entered. The reason that the if statement is not entered is that the neighbor station is not yet valid, because TP frames that may be received over an SF link are discarded.

Proposed Remedy [If more space is needed, please provide an additional file, preferably as plain text.]

The remedy is to replace the if statement with:
if (ringlet != ri &&
tp.macAddress == topoEntry[Other(ringlet)][1].macAddress)
{
awayState = Max(awayState, tp.spanProtState[ri]);
break;
}

This enables the if statement to be entered in the two station case, so that WTR will remain if the neighbor station has not changed from before the span break.

This does not cause a problem if the neighbor station has changed in the meantime (which requires that WTR be cleared).
Once WTR is entered, the next TP frame received from the new neighbor will result in newNeighbor[rid] being set to true
in Row 15 of Table 11.14, which will result in WTR being cleared in row 21 of Table 11.15.

Rationale For Remedy [If more space is needed, please provide an additional file, preferably as plain text.]

See remedy.

Remedy's Effect On Existing Equipment [If more space is needed, provide an additional file, preferably as plain text.]

Equipment with this change will enter WTR correctly on a 2 station ring.
Equipment without this change will go directly from SF to IDLE in many cases on a 2 station ring.

When you have completed this form, please mail it to STDS-802-17-MR @ listserv.ieee.org.