

ISSUE TITLE	Apcli0 duplicate mac address			
SW VERSION	2.7.1.0/2.7.1.1	CHIP	MT7620	Date 2012/12/21
Description: There is some problem with ap client on MT7620 v.2.7.1.1 or v.2.7.1.0. After using apli0 connecting to root AP. There will be duplicate IP address issue.				
How to Fix: Please modify red part to fix it: File : ap/ap_data.c Function : APHandleRxDataFrame <pre> /* handle APCLI. */ else if ((pFmeCtrl->FrDs == 1) && (pFmeCtrl->ToDs == 0)) { #ifdef APCLI_SUPPORT if (VALID_WCID(pRxWI->WirelessCliID)) pEntry = &pAd->MacTab.Content[pRxWI->WirelessCliID]; else pEntry = MacTableLookup(pAd, pHeader->Addr2); if (pEntry && IS_ENTRY_APCLI(pEntry)) { UCHAR ApCliIdx = pEntry->MatchAPCLITabIdx; </pre>				

```
if (!(pEntry && APCLI_IF_UP_CHECK(pAd, pEntry->MatchAPCLITabIdx)))
{
    goto err;
}
```

```
FromWhichBSSID = pEntry->MatchAPCLITabIdx + MIN_NET_DEVICE_FOR_APCLI;
RX_BLK_SET_FLAG(pRxBlk, fRX_APCLI);
```

```
//#ifndef MAC_APCLI_SUPPORT
```

```
/* Process broadcast packets */
if (pRxD->Mcast || pRxD->Bcast)
{
    /* Process the received broadcast frame for AP-Client. */
    if (!ApCliHandleRxBroadcastFrame(pAd, pRxBlk, pEntry, FromWhichBSSID))
    {
        /* release packet */
        RELEASE_NDIS_PACKET(pAd, pRxPacket, NDIS_STATUS_FAILURE);
    }
    return;
}
```

```
    }  
    //#endif /* MAC_APCLI_SUPPORT */  
    }  
    else  
#endif /* APCLI_SUPPORT */  
    {  
        /* no APCLI support */  
        /* release packet */  
        goto err;  
    }  
}
```

File : ap/ap_apcli.c

Function : ApCliHandleRxBroadcastFrame

```
/*  
    It is possible to receive the multicast packet when in AP Client mode  
    ex: broadcast from remote AP to AP-client,  
        addr1=ffffff, addr2=remote AP's bssid, addr3=sta4_mac_addr  
*/
```

```
pApCliEntry = &pAd->ApCfg.ApCliTab[pEntry->MatchAPCLITabIdx];
```

```
/* Filter out Bcast frame which AP relayed for us */
```

```
/* Multicast packet send from AP1 , received by AP2 and send back to AP1, drop this frame */
```

```
if (MAC_ADDR_EQUAL(pHeader->Addr3, pApCliEntry->CurrentAddress))
```

```
    return FALSE; /* give up this frame */
```

```
if (pEntry->PrivacyFilter != Ndis802_11PrivFilterAcceptAll)
```

```
    return FALSE; /* give up this frame */
```

```
/* skip the 802.11 header */
```

```
pRxBlk->pData += LENGTH_802_11;
```

```
pRxBlk->DataSize -= LENGTH_802_11;
```

#ifndef MAC_APCLI_SUPPORT

```
/* Use software to decrypt the encrypted frame. */
```

```
/* Because this received frame isn't my BSS frame, Asic passed to driver without decrypting it. */
```

```
/* If receiving an "encrypted" unicast packet(its WEP bit as 1) and doesn't match my BSSID, it */
```

```
/* pass to driver with "Decrypted" marked as 0 in RxD. */
```

```
if ((pRxD->MyBss == 0) && (pRxD->Decrypted == 0) && (pHeader->FC.Wep == 1))
```

```
{
```

```
if (RTMPSoftDecryptionAction(pAd,  
                             (PUCHAR)pHeader, 0,  
                             &pApCliEntry->SharedKey[pRxWI->KeyIndex],  
                             pRxBlk->pData,  
                             &(pRxBlk->DataSize)) == NDIS_STATUS_FAILURE)  
{  
    return FALSE; /* give up this frame */  
}  
}  
  
#endif /* MAC_APCLI_SUPPORT */  
  
pRxD->MyBss = 1;  
Indicate_Legacy_Packet(pAd, pRxBlk, FromWhichBSSID);
```