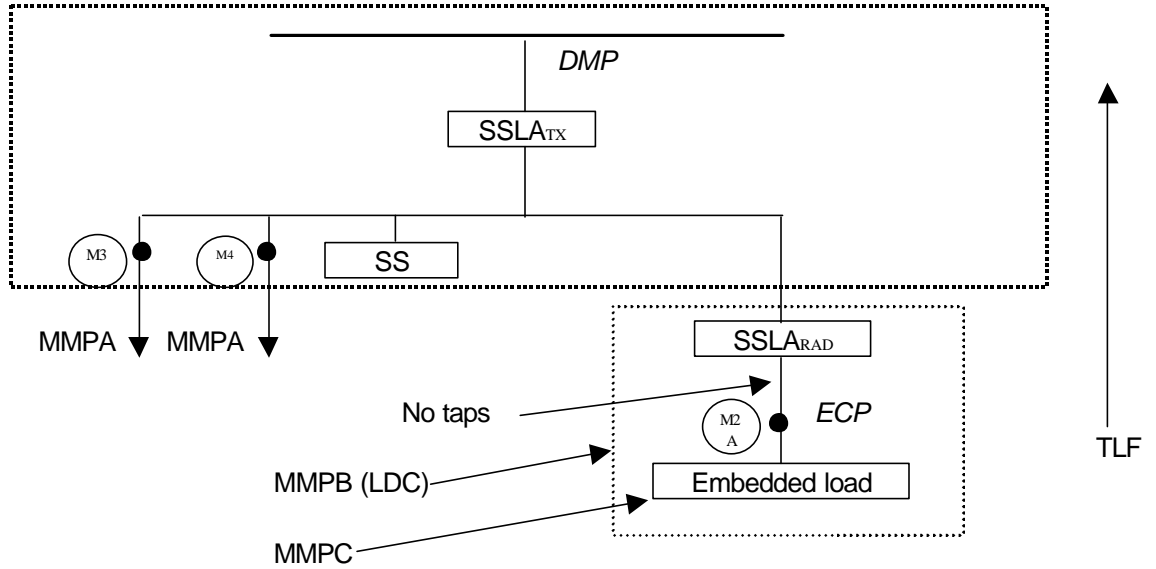


## 7. Embedded Load only + Feeder Meters



### Agreement

- 7.1 MMPA is the only transmission customer (MMPA owns all the feeders)  
 Not applicable - for MMPA to own all the feeders, MMPB must be embedded and not directly connected.

### No Agreement

- 7.2 MMPA & the MMPB are both transmission customers

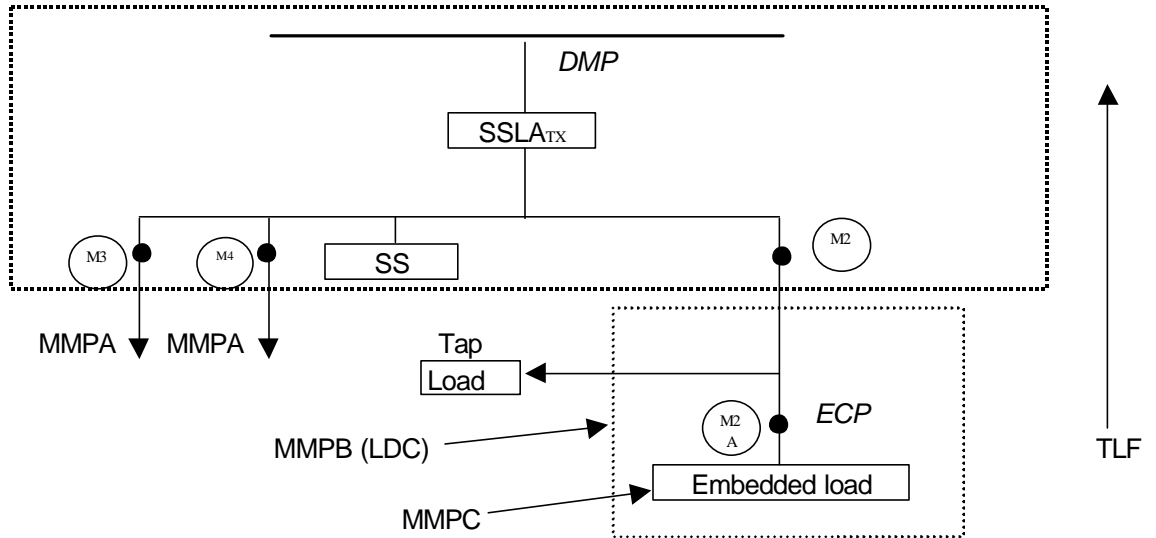
$$\begin{aligned}
 \text{Total}_{\text{energy}} &= M3+M4+M2A+SSLA_{\text{RAD}}+SS+SSLA_{\text{TX}} \\
 \text{MMPA}_{\text{energy}} &= M3+M4+SSY+SSLAY \\
 \text{MMPA}_{\text{TT}} &= M3+M4+SSY+SSLAY \\
 \text{MMPB}_{\text{energy}} &= \text{Total}_{\text{energy}} - \text{MMPA}_{\text{energy}} - \text{MMPC}_{\text{energy}} \\
 &= M2A \cdot (1-\text{TLF}) + SSLA_{\text{RAD}} + SSZ + SSLAZ \\
 \text{MMPB}_{\text{TT}} &= M2A + SSLA_{\text{RAD}} + SSZ + SSLAZ \\
 \text{MMPC}_{\text{energy}} &= M2A \cdot \text{TLF} \quad \text{per OEB instructions}
 \end{aligned}$$

based on breaker count

$$Y = 2/3$$

$$Z = 1/3$$

## 8. Embedded Load with Taps (load) + Feeder Meters



### Agreement

8.1 MMPA is the transmission customer (MMPA owns all the feeders)

$$\begin{aligned} \text{Total energy} &= M3+M4+M2 + SS+SSLA_{TX} \\ \text{MMPA}_{\text{energy}} &= M3+M4+SSY+SSLAY \\ \text{MMPB}_{\text{energy}} &= M2+SSZ+SSLAZ-M2A.TLF \\ \text{MMPA}_{TT} &= M3+M4+M2 + SS+SSLA_{TX} \\ \text{MMPB}_{\text{energy}} &= M2A.TLF \text{ per OEB} \end{aligned}$$

8.2 MMPA & the MMPB are both transmission customers

$$\begin{aligned} \text{MMPA}_{TT} &= M3+M4+SSY+SSLAY \\ \text{MMPB}_{TT} &= M2+SSZ+SSLAZ \end{aligned}$$

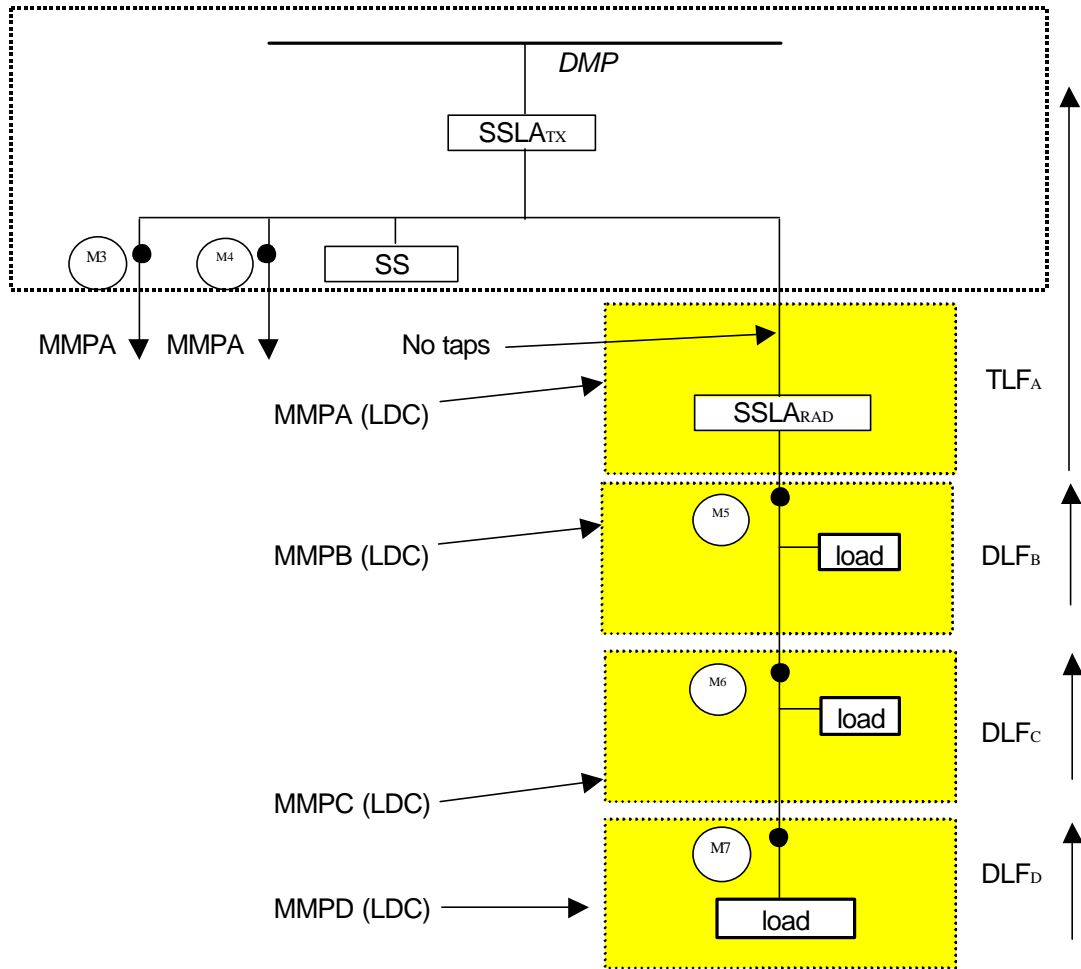
Note:  $SSLA_{RAD}$  is not used

### No Agreement

based on breaker count

$$\begin{aligned} Y &= 2/3 \\ Z &= 1/3 \end{aligned}$$

### 9 a). Multiple Embedded Distributors with taps

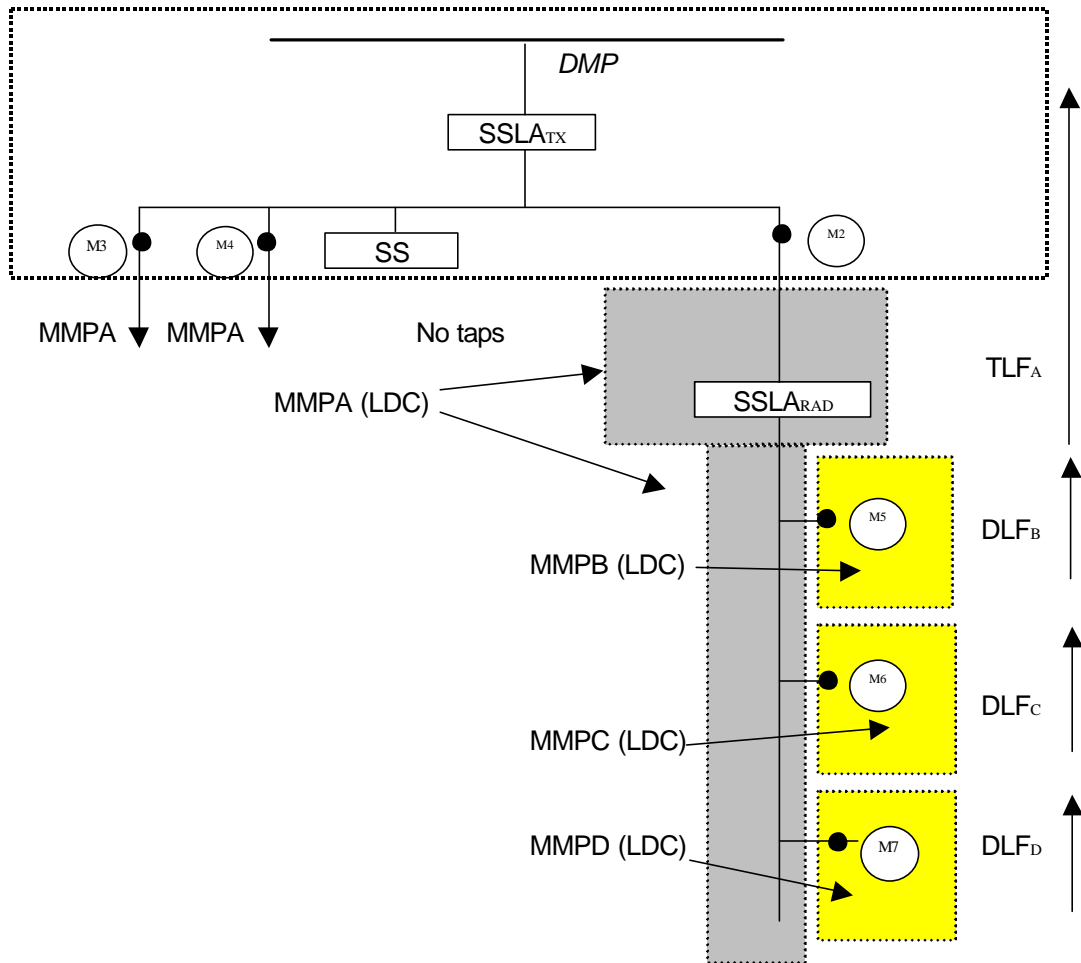


9 a) MMPA is the transmission customer (MMPA owns all the feeders at the TS)

$$\begin{aligned}
 \text{Total}_{\text{energy}} &= M3+M4+M5+SSLA_{\text{RAD}}+ SS+SSLA_{\text{TX}} \\
 \text{MMPA}_{\text{energy}} &= \text{Total}_{\text{energy}} - M5+SSLA_{\text{RAD}} \\
 &= M3+M4+ SS+SSLA_{\text{TX}} \\
 \text{MMPA}_{\text{TT}} &= M3+M4+M5+SSLA_{\text{RAD}}+ SS+SSLA_{\text{TX}} \\
 \text{MMPB}_{\text{energy}} &= M5.TLF_A-M6.DLF_B.TLF_A \\
 \text{MMPC}_{\text{energy}} &= M6.DLF_B.TLF_A-M7.DLF_C.DLF_B.TLF_A \\
 \text{MMPD}_{\text{energy}} &= M7.DLF_C.DLF_B.TLF_A
 \end{aligned}$$

Note: MMPB, MMPC, and MMPD are embedded

## 9 b). Embedded Distributors in Parallel



9 a) MMPA is the transmission customer (MMPA owns all the feeders at the TS)

$$\begin{aligned}
 \text{Total energy} &= M3+M4+M2+SS+SSLA_{TX} \\
 MMPA_{\text{energy}} &= M3+M4+M2-MMPB_{\text{energy}}-MMPC_{\text{energy}}-MMPD_{\text{energy}}+SS+SSLA_{TX} \\
 MMPA_{\text{energy}} &= M3+M4+M2-M5.TLF_A-M6.TLF_A-M7.TLF_A+SS+SSLA_{TX} \\
 MMPA_{TT} &= M3+M4+M2+SS+SSLA_{TX} \\
 MMPB_{\text{energy}} &= M5.TLF_A \quad \text{per OEB} \\
 MMPC_{\text{energy}} &= M6.TLF_A \quad \text{per OEB} \\
 MMPD_{\text{energy}} &= M7.TLF_A \quad \text{per OEB}
 \end{aligned}$$

Note: MMPB, MMPC and MMPD are embedded.