

### 56.3.3.3 Discovery Message Handshake

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### 56.3.3.4 Ranging and Timing Process

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### 56.3.3.5 MPCP Report Process

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## 56.3.4 Compatibility considerations

### 56.3.4.1 PAUSE operation

PAUSE, as defined in CROSS REF Annex 31B, inhibits the transmission of MPCPDUs. This may delay the signalling of events required for upstream granting and will result in inefficiencies in operation. Flow control achieved through the use of PAUSE is not efficient in an access environment where the propagation delays are large enough to render this mechanism obsolete.

Thus, although MPCP is compatible with PAUSE and may coexist, it is recommended not to use PAUSE operation on the access link.

### 56.3.5 Shared Variables

#### local\_time

This variable holds the value of the local counter used to control OMP operation. This variable is advanced by a timer at 62.5MHz, and counts in time\_quanta. It is periodically reset by the OMP functional block on notification of the existence of a more accurate timebase.

Changing the value of this variable while running using Layer Management is highly undesirable and is unspecified.

TYPE: 32 bit unsigned

DEFAULT VALUE: 00-00-00-00

#### Master

This variable is used to signal whether the OMP instance is dominant in the network it resides in. It is set by Layer Management based on the behavior of the node. Typically when Master is true the node is an OLT on the specified interface.

Changing the value of this variable while running is unspecified.

TYPE: boolean

DEFAULT VALUE: true for OLT  
false for ONU

### 56.3.6 OMP Parser/Multiplexer

The Optical Multi-Point Parser/Multiplexer functional block is responsible for distributing the OMP functionality between the different service blocks, and coordinating them into a single system. By parsing the common elements of the MPCPDU, the OMP is responsible for maintaining the network clock.

OMP is also responsible for functional block sanity, and maintains the watchdogs for remote systems.