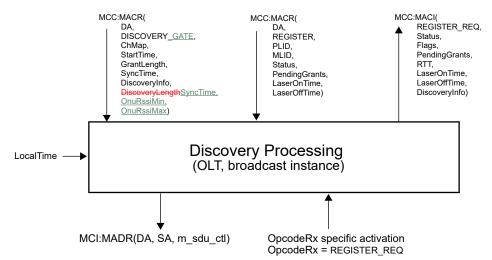
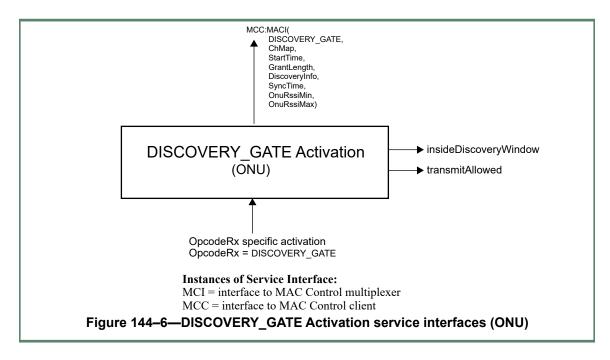
# 144.3.3 Discovery processing



## **Instances of Service Interface:**

MCI = interface to MAC Control multiplexer MCC = interface to MAC Control client

Figure 144–3—Discovery Processing service interfaces (OLT, broadcast instance)



#### 144.3.3.5 Messages

MCC:MACR(DA, DISCOVERY\_GATE, ChMap, StartTime, GrantLength, SyncTime, DiscoveryInfo, DiscoveryLengthOnuRssiMin, OnuRssiMax)

The services primitive is used by the MACControl eligible at the OLT to initiate the Discovery.

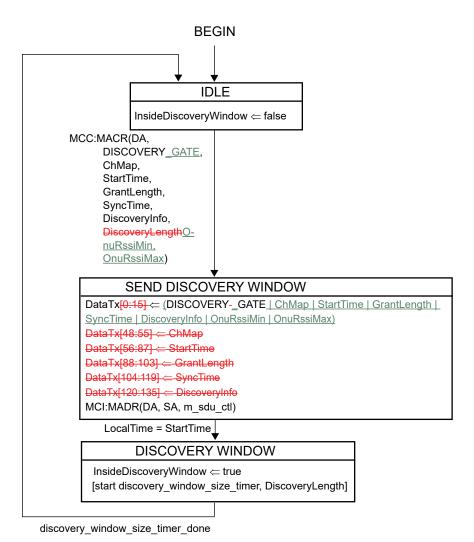
The service primitive is used by the MAC Control client at the OLT to initiate the Discovery Process. This primitive accepts the following parameters:

DA: Multicast or unicast MAC address.

DISCOVERY_GATI	E: Opcode for DISCOVERY_GATE MPCPDU as defined in Table 31A-1.
ChMap:	A bitmap representing the wavelength channel(s) on which to transmit on during the assigned transmission slot. See Table 144–1 for details.
StartTime:	Start time of the discovery window.
GrantLength:	Length of the grant given for discovery.
SyncTime:	The time interval required to stabilize the receiver at the OLT.
DiscoveryInfo:	This parameter represents the Discovery Information field in DISCOVERY_GATE MPCPDU as specified in 144.3.7.6, defining the speed(s) the OLT is capable of receiving and
D'	speed(s) at which the discovery window is opened for.
DiscoveryLength:	Length of the discovery window process. OnuRssiMin:
	Represents the minimum RSSI threshold value for ONUs, with the LSB equal to 0.1 uW, covering the range of 0 to 6.5535
OnuRssiMax:	$mW$ ( $\sim$ -40 to +8.2 dBm).
	Represents the maximum RSSI threshold value for ONUs,
	with the LSB equal to 0.1 uW, covering the range of 0 to
	6.5535 mW (~ -40 to +8.2 dBm).
OnuRssiMin, OnuRssiMa	TE, ChMap, StartTime, GrantLength, DiscoveryInfo, SyncTime, ax) used by the Discovery Initiation process at the ONU to notify the
	ment about the arrival of a DISCOVER GATE MPCPDU. This
primitive accepts the follo	
*	
_	E: Opcode for DISCOVERY GATE MPCPDU as defined in Table 31A-1.
<u>ChMap:</u>	A bitmap representing the wavelength channel(s) on which to transmit on during the assigned transmission slot. See Table 144–1 for details.
StartTime:	Start time of the discovery window.
GrantLength:	Length of the grant given for discovery.
<u>DiscoveryInfo:</u>	This parameter represents the Discovery Information field in DISCOVERY GATE MPCPDU as specified in 144.3.7.6, defining the speed(s) the OLT is capable of receiving and speed(s) at which the discovery window is opened for.
SyncTime:	The time interval required to stabilize the receiver at the OLT.
OnuRssiMin:	Represents the minimum RSSI threshold value for ONUs, with the LSB equal to 0.1 uW, covering the range of 0 to $6.5535$ mW ( $\sim$ -40 to +8.2 dBm).
OnuRssiMax:	Represents the maximum RSSI threshold value for ONUs, with the LSB equal to 0.1 uW, covering the range of 0 to 6.5535 mW (~ -40 to +8.2 dBm).
State Diagrams	
shall implement the DISCOVERY_GATE MPCPDU activation state diagram as shown in	

# 144.3.3.6 State Diag

The ONU shall impler Figure 144–11.



## **Instances of Service Interface:**

MCI = interface to MAC Control multiplexer MCC = interface to MAC Control client

Figure 144–7—Discovery Processing OLT Window Setup state diagram

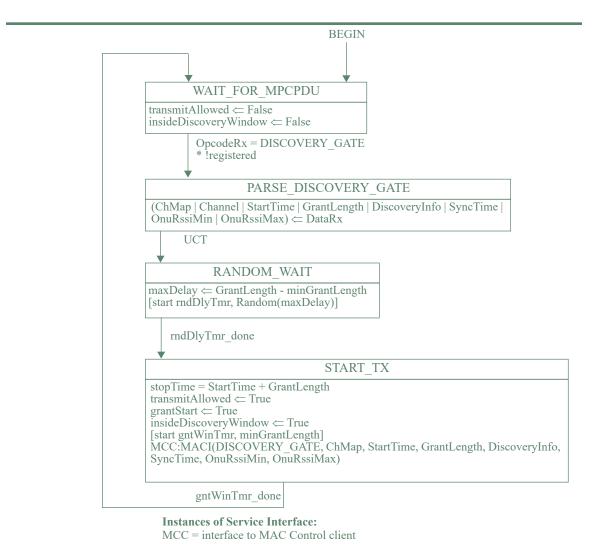


Figure 144–11—DISCOVERY\_GATE Activation ONU state diagram