Add new PSE MIB (Before 30.9.1.1.17)

aReceivedDLLPDRequestedPowerValue
>   ATTRIBUTE
>   APPROPRIATE SYNTAX:
>>   INTEGER
>
>   BEHAVIOUR DEFINED AS:
>>   A GET attribute that returns the requested power value **received from the remote system**. The requested power value is the new maximum input average power (see 33.3.7.2) the remote system will ever draw under this power allocation if it is accepted. The requested power value is encoded according to Equation (33–16), where X is the decimal value of aReceivedDLLPDRequestedPowerValue.

Change definition of PSE MIB (30.9.1.1.17)

aMirroredDLLPDRequestedPowerValue
>   ATTRIBUTE
>   APPROPRIATE SYNTAX:
>>   INTEGER
>
>   BEHAVIOUR DEFINED AS:
>>   A GET attribute that returns the requested power value that is mirrored back to the remote system. The definition for requested power value is same as described in (Prev Section). The requested power value is encoded according to Equation (33–16), where X is the decimal value of aMirroredDLLPDRequestedPowerValue.

Add new PSE MIB (After 30.9.1.1.18)

aEchoedDLLPSEAllocatedPowerValue
>   ATTRIBUTE
>   APPROPRIATE SYNTAX:
>>   INTEGER
>
>   BEHAVIOUR DEFINED AS:
>>   A GET attribute that returns the PSE allocated power value on the remote system. The definition for allocated power value is same as described in (Prev Section). The power value is encoded according to equation Equation (33–16), where X is the decimal value of aEchoedDLLPSEAllocatedPowerValue.

Add the following state variables (33.7.6.2)

ReceivedPDRequestedPowerValue
> The copy of PDRequestedPowerValue that the PSE receives from remote system. This variable is mapped from the aReceivedDLLPDRequestedPowerValue attribute (MIB reference).
> Values: 0 through 295.

EchoedPSEAllocatedPowerValue
> The copy of PDRequestedPowerValue that the PSE receives from remote system. This variable is mapped from the aEchoedDLLPSEAllocatedPowerValue attribute (MIB reference).

TempVar
> A temporary variable used to store Power Value.

Change following variable definition (33.7.6.2)

MirroredPDRequestedPowerValue
> This variable is updated by the PSE state machine. This variable maps into aMirroredDLLPDRequestedPowerValue attribute (MIB reference).

Change the PSE state diagram to the following:

(loss_bit = LOSS) *
(pse_dll_enabled = TRUE) +
loss_of_comms = TRUE

pse_dll_enable = FALSE

```
INITIALIZE
```
PSEAllocatedPowerValue ⇐ PD_INITIAL_VALUE
MirroredPDRequestedPowerValue <= PD_INITIAL_VALUE
removePower ⇐ FALSE
loss_of_comms ⇐ FALSE

```
LOSS OF COMMUNICATION
```

pse_power_cycles

loss_of_comms = FALSE

pse_dll_enable = TRUE

```
REMOVE POWER
```
remove_power <= TRUE

```
RUNNING
```

```
MIRROR UPDATE
```
MirroredPDRequestedPowerValue <=
TempVar

(loss_of_comms = FALSE) *
(local_system_change = TRUE) *
((PSE_NEW_VALUE < PSEAllocatedValue) +
(PSEAllocatedPowerValue = EchoedPSEAllocatedPowerValue))

(loss_of_comms = FALSE) *
(local_system_change = FALSE) *
(ReceivedPDRequestedPowerValue CHANGED) *
(PSEAllocatedPowerValue = EchoedPSEAllocatedPowerValue)

```
STATE SAVE
```
TempVar <= MirroredPDRequestedPowerValue

```
PD POWER REQUEST
```
TempVar <= ReceivedPDRequestedPowerValue
examine_request

change_accept
= TRUE

```
PSE POWER REALLOCATION
```
PSEAllocatedPowerValue ⇐ PSE_NEW VALUE
START power_change_timer

change_accept
= FALSE