Appendix E - Overall Printer Status Table

The following table defines a suggested relationship between various printer states and the variables Printer hrDeviceState, hrPrinterStatus, hrPrinterDetectedErrorState, prtAlertGroup, prtAlertCode, and prtChannelStatus. This table is the recommended implementation of these variables. It is provided to guide implementors of this MIB and users of the MIB by providing a sample set of states and the variable values that are expected to be produced as result of that state.
This information supplements that provided in Section 2.2.13.2 "Overall Printer Status". This is not an exhaustive list rather it is a guideline. More detailed status, if needed, should be obtained from the alert table and the sub-unit status variables.

	General Printer Status			prtAlertTable		Subunit Status (PrtSubUnitStatusTC)
Printer State	hrDevice Status	hrPrinter Status	hrPrinter Detected ErrorState	prtAlertGroup	prtAlertCode	prtInputStatus (per input tray) prtOutputStatus (per output bin) prtMarkerStatus (per marker) prtMediaPathStatus (per path) prtChannelStatus (per channel)
Normal or idle (no binary alerts)	running (2)	idle (3)	(0x0)	(no binary alerts)	(no binary alerts)	all groups are: Idle (0)
Printing (no binary alerts)	running (2)	printing (4)	(0x0)	(no binary alerts)	(no binary alerts)	Availability may be: Idle (0) or Active (4) or Busy (6) depending on subsystem state
Off-line	down (5)	other (1)	Offline (2)	generalPrinter (5)	subunitOffline (22)	prtChannelStatus: Availability= Unavailable and OnRequest+ Critical Alerts+ Off-Line (1+16+32)

Standby or Power Saver Mode	running (2)	other (1)	(0x0)	generalPrinter (5)	subunitPower Saver(23)	prtChannelStatus: Availability= Available and Standby (2)
Initial Power Up (no binary alerts (while warming up)	down (5)	warmup (5)	Offline (2)	(no binary alerts)	(no binary alerts)	all groups are: Availability= Unknown+ Transitioning (5+64)
Warming Up (no binary alerts)	running (2)	warmup (5)	(0x0)	(no binary alerts)	(no binary alerts)	all groups are: Availability= Standby+ Transitioning (2+64)

Critical Errors: the printer can not print
(the error may be current while printing)

Jam	down (5)	other (1)	Jammed(4)	appropriate group	jammed(8)	PrtSubUnitStatusTC Availability= Unavailable because broken+Critical Alerts (3+16)
Cover/Door Open (listed in cover table)	down (5)	other (1)	Door Open(8)	cover(6)	coverOpened(3)	prtCoverStatus: coverOpen (3)
Input Tray Missing	down (5)	other (1)	No Paper(64)	input(8)	subunitMissing (9)	prtInputStatus: Availability= Unavailable because broken+Critical Alerts (3+16)
Input Tray Empty	down (5)	other (1)	No Paper(64)	input(8)	subunitEmpty (13)	prtInputStatus: Availability= Unavailable because broken+Critical Alerts (3+16)

Output Tray Missing	down (5)	other (1)	Service Requested(1) + Offline (2)	output(9)	subunitMissing (9)	prtOutputStatus: Availability= Unavailable because broken+Critical Alerts (3+16)
Output Tray Full	down (5)	other (1)	Service Requested(1) + Offline (2)	output(9)	subunitFull (15)	prtOutputStatus: Availability= Unavailable because broken+Critical Alerts (3+16)
Marker Supply Missing (i.e., toner missing, ink missing)	down (5)	other (1)	No Toner(16)	markerSupplies (11)	subunitMissing (9)	prtMarkerStatus: Availability= Unavailable because broken+Critical Alerts (3+16)
Marker Supply Empty (i.e., toner empty, ink missing)	down (5)	other (1)	No Toner(16)	markerSupplies (11)	subunitEmpty (13)	prtMarkerStatus: Availability= Unavailable because broken+Critical Alerts (3+16)

Non-Critical Errors: the printer can still print while condition exists
(the warning may be current while printing)

Input Tray Low	warning (3)	idle (3) or printing (4) or warmup (5)	Low Paper(128)	input(8)	subunitAlmost Empty(12)	prtInputStatus: Non-Critical Alerts (8)
Output Tray Almost Full	warning (3)	idle (3) or printing (4) or warmup (5)	Service Requested(1)	output(9)	subunitAlmost Full(14)	prtOutputStatus: Non-Critical Alerts (8)
Marker Supply Almost Empty (i.e., toner low, ink low)	warning (3)	idle (3) or printing (4) or warmup (5)	Low Toner (32)	markerSupplies (11)	subunitAlmost Empty(12)	prtMarkerStatus: Non-Critical Alerts (8)

Input Tray Missing (when n-1 trays are missing with linking)	warning (3)	idle (3) or printing (4) or warmup (5)	Low Paper(128)	input(8)	subunitMissing (9)	prtInputStatus: Non-Critical Alerts (8)
Input Tray Empty (when n-1 trays are empty with linking)	warning (3)	idle (3) or printing (4) or warmup (5)	Low Paper(128)	input(8)	subunitEmpty (13)	prtInputStatus: Non-Critical Alerts (8)
Output Tray Missing (when n-1 trays are missing with linking)	warning (3)	idle (3) or printing (4) or warmup (5)	Service Requested(1)	output(9)	subunitMissing (9)	prtOutputStatus: Non-Critical Alerts (8)
Output Tray Full (when n-1 trays are full with linking)	warning (3)	idle (3) or printing (4) or warmup (5)	Service Requested(1)	output(9)	subunitFull (15)	prtOutputStatus: Non-Critical Alerts (8)

The definition of PrtSubUnitStatusTC specifies that SubUnitStatus is an integer that is the sum of 5 distinct values/states: Availability, Critical, Non-Critical, On-line and Transitioning. Thus when a non-critical alert or alerts are present the values for Availability, On-Line and Transitioning will be summed with the Non-Critical Alerts (8) value.