main Voltha ONU upgrade ImageState transitions

Legend

xxx/yyy/zzz

Image state with:
xxx - DownloadState
yyy - Reason
zzz -ImageState

aaa

state gets visible on:
aaa

normal processing

cancellation

failures

Unknown/NoError/Unknown

(get) status

download

download

immediate failure

Failed/ErrorIndication/
Unknown

commandReturn or
(get) status

Started/NoError/Unknown

commandReturn

internal processing (short)

download command from any
mentioned state (aborts current
upgrade activity and starts new
download

C

Started/NoError/Downloading

(get) status

abort

late failure

internal processing (long)

Started/CancelledOnRequest/
Downloading

commandReturn

Failed/ErrorIndication/
Unknown

(get) status

Succeeded/NoError/Inactive

(get) status

internal processing (short)

Cancelled/CancelledOnRequest/
ImageUnknown

(get) status

abort

activate

(may also be direct parameter from
download)

activate

activate

Succeeded (*)/NoError/
Activating

commandReturn

Succeeded/CancelledOnRequest/
Inactive

commandReturn or
(get) status

from activate/commit or according
processing states

A

abort

internal processing (long)

Succeeded (*)/CancelledOnRequest/
Activating

commandReturn

immediate or
late error

Succeeded (*)/NoError/
Active

(get) status

internal processing (short)

Succeeded (*)/CancelledOnRequest/
ActivationAborted

(get) status

Succeeded (*)/ErrorIndication/
ActivationAborted or CommitAborted

commandReturn or
(get) status

commit

(may also be direct parameter from
download or activate)

commit

commit

abort

Succeeded (*)/NoError/
Committing

commandReturn

Succeeded (*)/CancelledOnRequest/
Active

commandReturn or
(get) status

B

internal processing (short)

abort

back to activating/committing states
(based on according command)

not recommended
but supported

Succeeded (*)/NoError/
Committed

(get) status

Succeeded (*)/CancelledOnRequest/
Committing

commandReturn

internal processing (short)

Succeeded (*)/CancelledOnRequest/
CommitAborted

(get) status

abort

*: Unknown download state in case of activate/commit
without download (based on ONU image status)