

$$th_{ad} \leftarrow (th_{\max} + th_{\min}) / 2$$

At time epoch t

forall (pending connections c and service flow i of c) is
in{UGS, ertPS, rtPS, nrtPS, BE} **do**

if (BS more BW)

$$b_i = b_{i,\max} \text{ of class } i$$

elseif (BS ordinary BW)

$$b_i = \alpha b_{i,\max} + (1 - \alpha) b_{i,\min} \text{ of class } i$$

else (BS less BW)

$$b_i = b_{i,\min} \text{ of class } i$$

if (type is handover and service class is i) **then**

if ($b_{i,ho} + b_n + b_h \leq B$) **then**

accept handover

if ($b_{i,ho} + b_n + b_h \leq th_{\max}$) **then**

$$th_{ad} \leftarrow \max(th_{\min}, (th_{ad} - b_{i,ho}))$$

endif

else // no more capacity in B

reject handover

else // it is new connection

if ($b_{i,new} + b_n \leq th_{ad}$ and $b_{i,new} + b_n + b_h \leq th_{\max}$) **then**

accept new

else

reject new

if ($b_{i,new} + b_n \leq th_{ad}$) **then**

$$th_{ad} \leftarrow \min(th_{\max}, (th_{ad} + b_{i,new}))$$

endif

endif

endforall