$ct_p$: The unit cost of flow on path $p$, $ct_p \geq 0$;
$H_p$: The hop number of path $p$, $H_p \geq 1$;
$cn_s$: The unit cost of computing resources at physical node $s$, $cn_s \geq 0$;
$\psi$ The set of all the paths for the model;
$\psi^c$ The set of paths for virtual link $c$;
$\psi_s^c$ The set of paths for virtual link $c$ that consists of physical nodes all with cryptography capability;
$cr_V$ The computing capacity requirement of each virtual node $V$;
$\beta r_c$ The bandwidth requirement of virtual link $c$;
$\beta c_x$: The bandwidth capacity of physical link $x$;
$nc_i$: The number of cryptography instances that physical node $i$ can support;
$\alpha_{p,\,(V,\,s)}$ 1 if auxiliary link (V, s) is on the path $p$, and 0 otherwise;
$\theta_{p,\,i}$ 1 if node $i$ is contained in path $p$, and 0 otherwise;
$ct_L$: The cost of selected link security plan;
$ct_L^c$: The cost of selected link security plan for virtual link $c$;
$ct_{ED}$: The cost per cryptography instance;
$AL$: The set of auxiliary links;
$D_V$: The node degree of virtual node $V$ in the virtual network;
$T_V$: The summation of the bandwidth requirements of all incident virtual links of virtual node $V$.