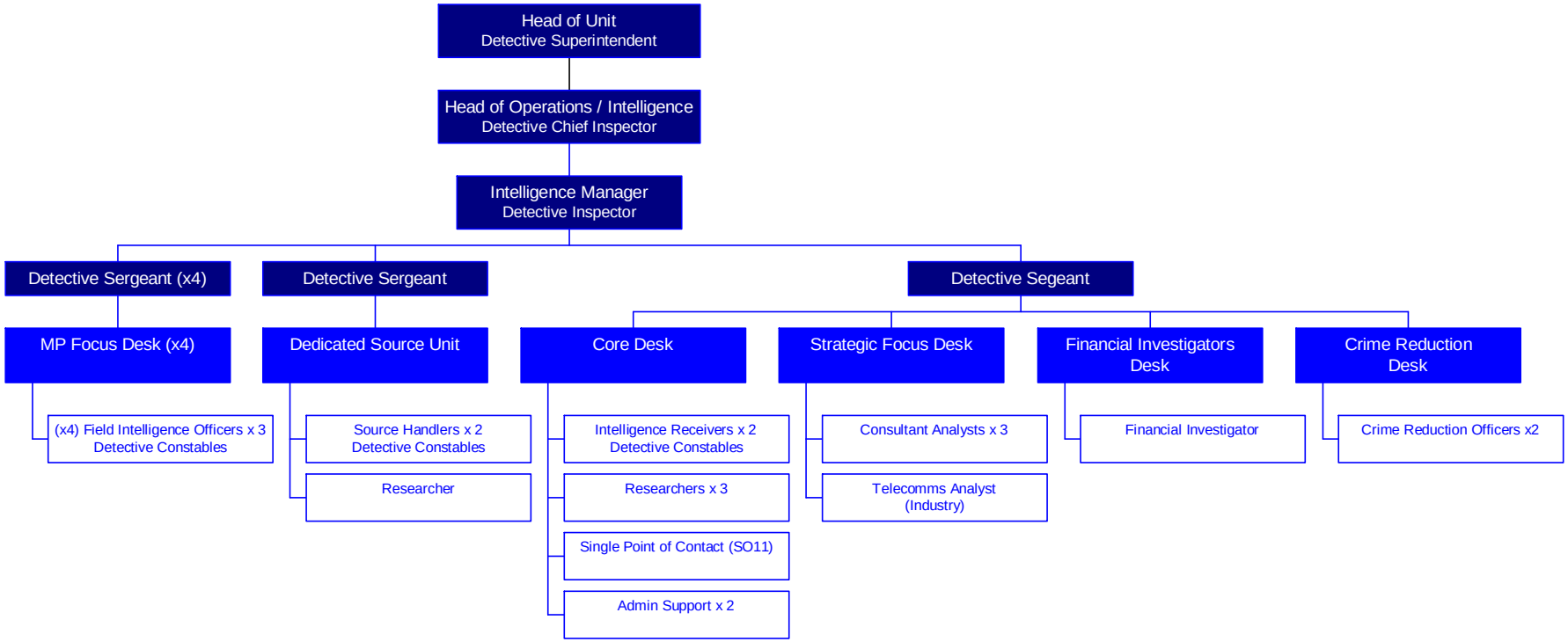NMPCU STRUCTURE