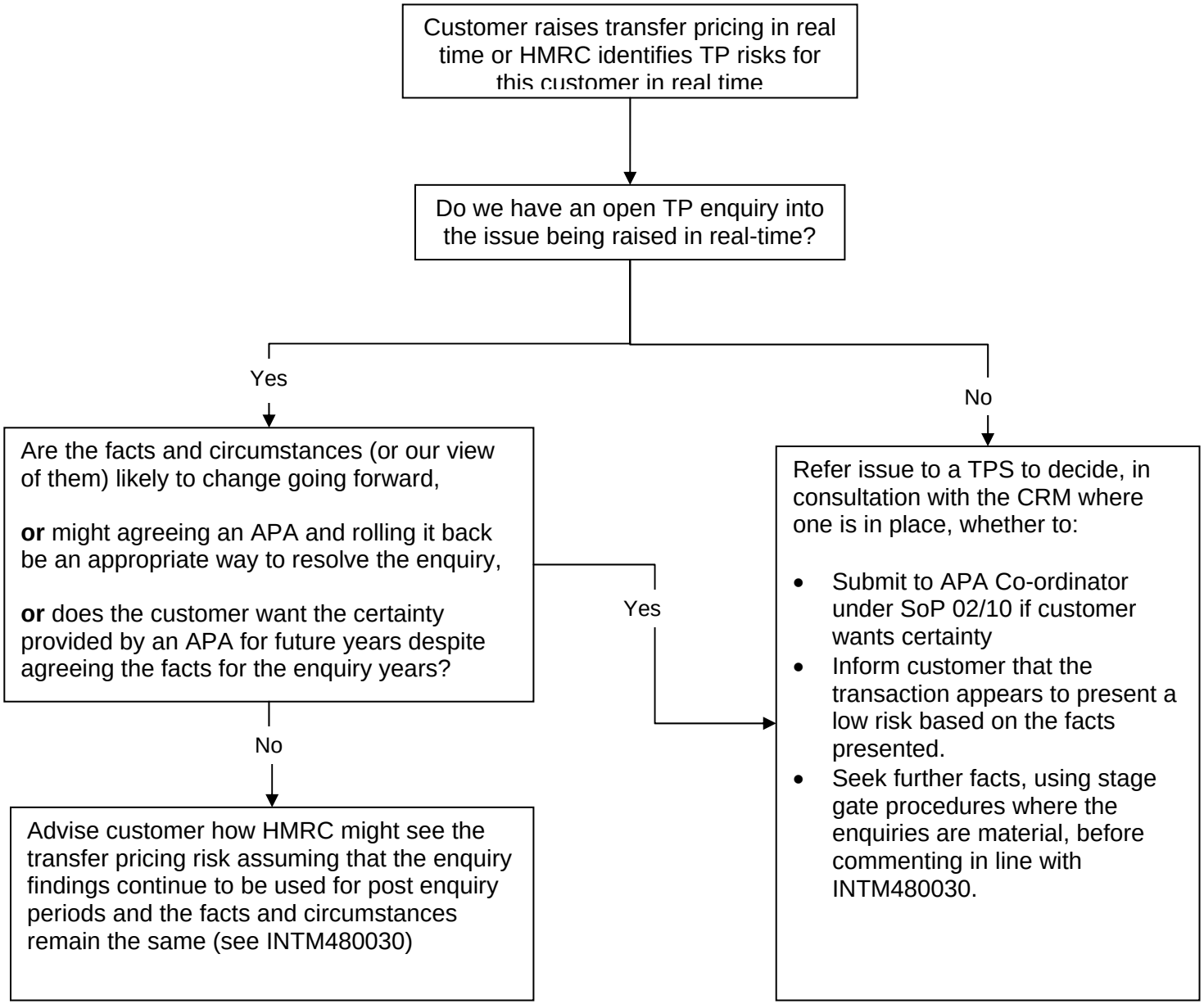Real-time Working and APAs