

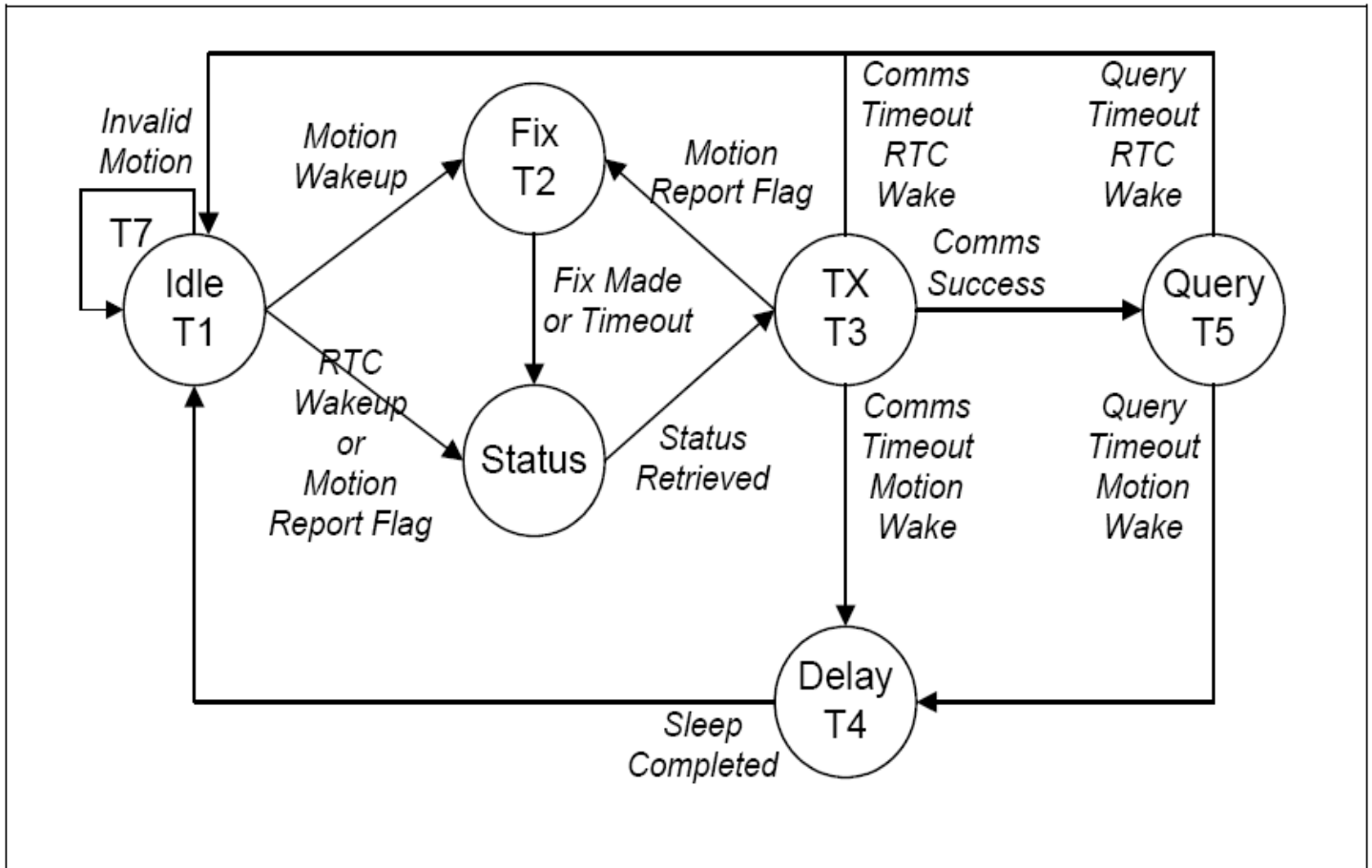
Diamond Point International (Europe) Ltd.

Unit 9, North Point Business Estate, Enterprise Close, Rochester, Kent, ME2 4LX
Tel 01634-300900 Fax 01634-722398 Email support@dpie.com



TrimTrac Application Note 6 – 'Standard Operational State Machine'

This is the fundamental TrimTrac State machine, courtesy of Trimble's TrimTrac Manual. It is important to understand the basic operation of the TrimTrac as it highlights the simple elegance of the whole autonomous asset tracking premise.



In its simplest form, motion (exceeding T7 seconds) will cause the TrimTrac to power its enhanced sensitivity GPS engine and try to obtain a fix, when successful or if Fix time expires it will gather information about itself (Status). The GPS engine is powered down and GSM engine powered up and the unit logs into the GSM network, it transmits the Positional/Status information wrapped in an SMS. It now waits in Query mode for any incoming SMS. Then TrimTrac powers down all hardware except its real time clock for a Delay period. Then finally back to Idle awaiting another motion. Simple and elegant yes, but with 7 user definable timers it is very capable to cope with a wide variety of applications. As stated this is the State Machine in its simplest form. Additions to Idle and Delay states allow a much more complex arrangement of the State machine, see Extended Functions and advanced State machine.