

# Downtime

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**Downtime ( $T_d$ )** is the Mission Duration times the sum of all of the different kinds of time required to transition from being down to the time to be fully operational divided by the [Mean Time Between Failure \(MTBF\)](#).

- [Mean Time To Repair \(MTTR\)](#) is time required to restore operations the level defined in the system specification
- [Mean Logistics Delay Time \(MLDT\)](#) is time required to obtain parts from the part depot or from the manufacturer including transportation to the site
- [Mean Active Maintenance Down Time \(MAMDT\)](#) is average time required to perform diagnostics and replace parts

Source: [Downtime](#)

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