

SONM User Reputation Model

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1 Overview

This document describes the reputation system that is used to characterise agents in the SONM network. Motivation: lost profit for sellers, lost time for buyers, etc.

2 Basic notions

The SONM ecosystem consists of *buyers* and *sellers*. Buyers rent computational resources from sellers to run arbitrary *tasks*; a deal is made for a specific resource configuration and a specific period of time (i.e., not per task).

When looking for a seller, a buyer searches the *marketplace*. A deal made via marketplace is called a *public* deal.

Any deal can have three possible outcomes:

- **Mutual satisfaction.** Buyer is satisfied with the service provided by seller, no