
MODULE *Configuration*

EXTENDS *Mastership*

INSTANCE *Naturals*

INSTANCE *FiniteSets*

LOCAL INSTANCE *TLC*

Status constants

CONSTANTS

ConfigurationInProgress,
ConfigurationComplete,
ConfigurationFailed

CONSTANT *LogConfiguration*

ASSUME *LogConfiguration* ∈ BOOLEAN

A record of per-target configurations

VARIABLE *configuration*

LOCAL *CurrentState* \triangleq

[*configuration* \mapsto *configuration*,
target \mapsto *target*,
mastership \mapsto *mastership*,
nodes \mapsto *node*]

LOCAL *SuccessorState* \triangleq

[*configuration* \mapsto *configuration'*,
target \mapsto *target'*,
mastership \mapsto *mastership'*,
nodes \mapsto *node'*]

LOCAL *Log* \triangleq INSTANCE *Log* WITH

File \leftarrow "Configuration.log",
CurrentState \leftarrow *CurrentState*,
SuccessorState \leftarrow *SuccessorState*,
Enabled \leftarrow *LogConfiguration*

This section models the *Configuration* reconciler.

ReconcileConfiguration(*n*) \triangleq

\wedge *mastership.master* = *n*

* Modification History
* Last modified *Fri Apr 21 12:46:55 PDT 2023* by *jhalterm*
* Last modified Sun *Feb 20 10:07:49 PST 2022* by *jordanhalterman*
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