

## Catalog of System Properties

*Webmasters Note: This page was restored from the 10 October 2006 copy on the WayBack machine and might have some inaccuracies. The embedded links still point to the WayBack machine. Please use the forums to report problems. Thank you.*

- **org.cougaar.agent.defaultFile** The name of the default XML configuration file for an agent, used if the agent configuration is not found in the node's XML (-Dorg.cougaar.society.file) or agent's XML (name+".xml"). Defaults to "DefaultAgent.xml" (See class [XMLComponentInitializerServiceProvider](#))
- **org.cougaar.core.agent** quiet Makes standard output as quiet as possible. If Heartbeat is running, will not print dots. (See class [Heartbeat](#))
- **org.cougaar.core.agent.demoControl.namingTimeout** Timeout in milliseconds for a DemoControlService setSocietyTime lookup of all target nodes in the naming service. Defaults to 30000 millis. (See class [DemoControl](#))
- **org.cougaar.core.agent.enablePublishException** When set to *true*, collects stack frames for each published object in order to pinpoint both sides of publish conflicts. This is *extremely* expensive. (See class [Blackboard](#))
- **org.cougaar.core.agent.heartbeat** Unless disabled, the node will provide a heartbeat to the vm. (See class [Heartbeat](#))
- **org.cougaar.core.agent.heartbeat** If enabled, a low-priority thread runs and prints a '.' every few seconds when nothing else much is going on. This is a one-per-vm function. Default *true*. (See class [HeartbeatComponent](#))
- **org.cougaar.core.agent.idle.verbose** If *true*, will print elapsed time (seconds) since the agent's start every idle.interval millis. (See class [Heartbeat](#))
- **org.cougaar.core.agent.idle.verbose.interval=60000** The number of milliseconds between verbose idle reports. (See class [Heartbeat](#))
- **org.cougaar.core.agent.idleInterval** How long between idle detection and heartbeat cycles (prints '.'); (See class [Heartbeat](#))
- **org.cougaar.core.agent.quiet** Makes standard output as quiet as possible. (See class [MessageSwitch](#))
- **org.cougaar.core.agent.savePriorPublisher** When set to *true*, will collect extra information on each publish to detect problems with multiple adds, deletes, etc by complaining about unexpected state changes. This adds significant runtime overhead. (See class [Blackboard](#))
- **org.cougaar.core.agent.service.alarm.Timer.epsilon=10000** milliseconds considered a relatively long time for alarm delivery. (See class [Timer](#))
- **org.cougaar.core.agent.service.alarm.Timer.useSchedulable=true** Set to false to use in-band delivery of alarm sounding rather than using a schedulable to wrap the delivery. (See class [Timer](#))
- **org.cougaar.core.agent.showTraffic** If *true*, shows '+' and '-' on message sends and receives except for white pages messages. If *wp*, then shows both the above +/- for regular send/receive and W/w for white pages

send/receive. (See class [MessageSwitch](#))

- **org.cougaar.core.agent.startTime** The date to use as the start of execution for demonstration purposes. Accepts date/time in the form of *MM/dd/yyyy H:mm:ss* where the time sequence is optional. If the time is not given, then it defaults to midnight on the specified date. agentStartTime must be in GMT. Note that if society.startTime is not fully specified, a multi-node society can have significant natural-time clock skew across the members. (See class [ExecutionTimer](#))
- **org.cougaar.core.blackboard.ActiveSubscriptionObject.deferCommit** When set to true, causes ActiveSubscriptionObject side effects to occur at LP invocation time rather than immediately during publishAdd (See org.cougaar.core.blackboard.ActiveSubscriptionObject.deferCommit in [ActiveSubscriptionObject](#))
- **org.cougaar.core.blackboard.Claimable.debug** If set to true, every Claimable instance will keep additional information for debugging claim conflicts, that is, multiple plugins attempting to operate directly on the same blackboard objects. This information adds significant additional memory load. (See class [ClaimableImpl](#))
- **org.cougaar.core.blackboard.debug** Set to true to additional checking on blackboard transactions. For instance, it will attempt to look for changes to blackboard objects which have not been published at transaction close time. (See class [Subscriber](#))
- **org.cougaar.core.blackboard.enforceTransactions** Set to *false* to disable checking for clients of BlackboardService publishing changes to the blackboard outside of a transaction. (See class [Subscriber](#))
- **org.cougaar.core.blackboard.pedantic** When true (the default) enables a variety of extra checks for suspicious blackboard activity. None of these checks are especially expensive, so it is generally recommended that pedantic be left enabled. (See org.cougaar.core.blackboard.Blackboard.PEDANTIC in [Blackboard](#))
- **org.cougaar.core.blackboard.timestamp** Enable blackboard timestamps, defaults to false. (See class [BlackboardTimestampService](#))
- **org.cougaar.core.blackboard.timestamp** Set to true to enable EnvelopeMetrics and TimestampSubscriptions (defaults to false). (See class [Subscriber](#))
- **org.cougaar.core.blackboard.waitForNewCommChangeNotifications** Time in milliseconds to wait for more community changes before asking the community service for them. Default is 1,000. (See class [Blackboard](#))
- **org.cougaar.core.domain.config.enable** Enable the “-Dorg.cougaar.core.domain.config.filename” option to read the *LDMDomains.ini* file. Defaults to *true*. (See class [DomainManager](#))
- **org.cougaar.core.domain.config.filename** The domain manager will read the specified “.ini” configuration file (using the config finder) to load domains. See bug 2977. Defaults to *LDMDomains.ini*. (See class [DomainManager](#))
- **org.cougaar.core.load.planning** If enabled, the domain manager will load the planning-specific PlanningDomain. See bug 2522. Default *true* (See class [DomainManager](#))
- **org.cougaar.core.logging.addAgentPrefix** Modify the agent-level LoggingService implementation to add an “agent: ” prefix to all logging lines. Options are: “true” to enable in both agents and node-agents, “agent” to only enable on agents, “node” to only enable on the node-agent, “false” to disable. Defaults to true. (See class [LoggingServiceComponent](#))
- **org.cougaar.core.logging.trackDuplicateLoggingPrefix** Enable debug tracking of duplicate “AgentX: AgentX:” LoggingService log messages within the LoggingServiceWithPrefix, possibly due to enabling “-Dorg.cougaar.core.logging.addAgentPrefix”. Performs an expensive check at DETAIL log level, regardless of logger configuration, and logs any duplicate prefixes at SHOUT level. Defaults to false. (See class [LoggingServiceWithPrefix](#))
- **org.cougaar.core.naming.useSSL** Backwards compatibility for the “org.cougaar.core.wp.resolver.rmi.useSSL”

system property. (See class [RMIUtil](#))

- **org.cougaar.core.node.InitializationComponent** Which component should be loaded to advertise the ComponentInitializerService, which provides the agent component description configurations. Usually set to XML. (See class [AgentManager](#))
- **org.cougaar.core.node.InitializationComponent** Used to specify which service component to use. Can be passed in short hand (*DB*, *XML*, *File*) or as a fully specified class:  
*org.cougaar.core.node.DBComponentInitializerServiceComponent* (See class [Node](#))
- **org.cougaar.core.node.SkipReconciliation** If enabled, rehydrating agents will not run RestartLPs to do reconciliation with other agents, when the Node starts up. Use this (with caution) to quickly rehydrate a society from a consistent set of (quiescent) persistence snapshots. This flag will be cleared once the Node and all its agents have loaded, so that later added agents will do reconciliation. Default *false*. (See class [Topology](#))
- **org.cougaar.core.node.ignoreRehydratedAgentList** Ignore the list of agents from the rehydrated state of the NodeAgent, if any. Defaults to false. Set to true to disable this feature and always use the list of agents from the ComponentInitializerService. (See class [AgentLoader](#))
- **org.cougaar.core.node.incarnation.period** Milliseconds between white pages incarnation polling to detect agent restarts, defaults to 43000. (See class [Incarnation](#))
- **org.cougaar.core.persist.rehydrateTest.agent** Default RehydrateTest agent name if not specified on the command line (See class [RehydrateTest](#))
- **org.cougaar.core.persistence.DataProtectionServiceStubEnabled** set to true to enable a debugging implementation of DataProtectionService if no real one is found. (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.archiveCount** An integer specifying how many persistence archive snapshots to keep. In the absence of a value for this property, the archivingDisabled property is used to set this value to 0 for disabled and Integer.MAX\_VALUE for enabled. (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.archivingDisabled** Set true to discard archival deltas. Overridden by *org.cougaar.core.persistence.archiveCount*. (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.class** Specify the persistence classes to be used (if persistence is enabled). The value consists of one or more elements separated by commas, where element specifies a persistence class name and zero or more semi-colon-separated parameters for that class. For example, the default persistence class is:  
*-Dorg.cougaar.core.persist.class=org.cougaar.core.persist.FilePersistence\;P*  
Here is another example:  
*-Dorg.cougaar.core.persist.class=org.cougaar.core.persist.DummyPersistence\;dummy*  
Multiple classes can be specified with the “,” separator, e.g.:  
*-Dorg.cougaar.core.persist.class=Alpha\;a1\;a2\;a3,Beta\;b1\;b2*  
where class Alpha is passed [a1, a2, a3] and Beta is passed [b1, b2].  
The interpretation of the parameters depends on the persistence class, so see the documentation of the individual plugin classes for details. (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.clear** Set true to discard all deltas on startup (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.consolidationPeriod** The number of incremental deltas between full deltas (default = 10) (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.database.driver** Specify the database driver to use for DatabasePersistence. (See class [DatabasePersistence](#))
- **org.cougaar.core.persistence.database.password** Specify the database password to use for

DatabasePersistence. (See class [DatabasePersistence](#))

- **org.cougaar.core.persistence.database.url** Specify the database to use for DatabasePersistence. (See class [DatabasePersistence](#))
- **org.cougaar.core.persistence.database.user** Specify the database user to use for DatabasePersistence. (See class [DatabasePersistence](#))
- **org.cougaar.core.persistence.enable** When set to *true* will enable blackboard persistence. (See class [Blackboard](#))
- **org.cougaar.core.persistence.lazyInterval** specifies the interval in milliseconds between the generation of persistence deltas. Default is 300000 (5 minutes). This will be overridden if the persistence control and adaptivity engines are running. (See class [PersistenceServiceComponent](#))
- **org.cougaar.core.persistence.path** Specifies the directory in which persistence snapshots should be saved. If this is a relative path, the base will be the value of org.cougaar.install.path. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [BufferedFilePersistence](#))
- **org.cougaar.core.persistence.path** Specifies the directory in which persistence snapshots should be saved. If this is a relative path, the base will be the value of org.cougaar.install.path. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [FilePersistence](#))
- **org.cougaar.core.persistence.path** Specifies the directory in which persistence snapshots should be saved. If this is a relative path, the base will be the value of org.cougaar.install.path. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [FilePersistenceBase](#))
- **org.cougaar.core.service.SuicideService.enable** If true, will enable suicide of Nodes and Agents. Otherwise, the suicide API exists but only logs attempts rather than actually kills anything. The default is false. (See class [SuicideService](#))
- **org.cougaar.core.service.SuicideService.lowMem** Specify a quantity of memory to use as the definition of “dangerously low” for proactive kill situations. This is interpreted as a factor of Runtime.maxMemory(). The default value is “0.02” meaning 2 percent. If this value is greater than or equal to 1.0, then it is interpreted as a number of kilobytes. Examples: if maxMemory is 100Mb, then “0.005” and “512” are both interpreted as one half a megabyte. (See class [SuicideService](#))
- **org.cougaar.core.service.SuicideService.proactive** If true, the SuicideService will attempt to kill things proactively when it notices low-memory situations. Defaults to true, but only takes effect if the SuicideService is enabled. (See class [SuicideService](#))
- **org.cougaar.core.service.SuicideService.proactivePeriod** Defines the period of proactive suicide checks, in seconds. By default, this is 1. (See class [SuicideService](#))
- **org.cougaar.core.society.startTime** The real date-time stamp when the society was started. If supplied, can be used to synchronize the execution times of nodes which were started at different real times. society.startTime must be in GMT and ought to be generally slightly in the past. Format example: “09/12/2003 13:00:00” (See class [ExecutionTimer](#))
- **org.cougaar.core.society.timeOffset** Specify an offset (in milliseconds) from real time to use as execution time. This is an alternative to using agent.startTime and society.startTime (if timeOffset is specified, then these other properties are ignored). Typical usage would be to specify the execution-time offset when (re)starting a node to match the other nodes in the society. (See class [ExecutionTimer](#))
- **org.cougaar.core.wp.bootstrap.ensureIsFound.checkMtsReachability** Specify if MTS-reachability should

be tested when checking WP server names. Set to true by default. Should never be set to false (see bug 3907). (See class [EnsureIsFoundManager](#))

- **org.cougaar.core.wp.bootstrap.ensureIsFound.checkNamesPeriod** Specify how often to check for WP server names. Set to 45 seconds by default. (See class [EnsureIsFoundManager](#))
- **org.cougaar.core.wp.resolver.rmi.resolveHosts** Boolean-valued property to do an InetAddress resolution of the bootstrap entry's host name when using the RMI registry. For example, if the bootstrap entry was:

```
(NodeX, -RMI_REG, rmi://localhost:8000/NodeX)
```

then this would resolve "localhost" to "127.0.0.1" and act as if the bootstrap entry was:

```
(NodeX, -RMI_REG, rmi://127.0.0.1:8000/NodeX)
```

RMI registry access is fairly picky about the host name, so this defaults to 'true'. (See class [RMIUtil](#))

- **org.cougaar.core.wp.resolver.rmi.useSSL** Boolean-valued property which controls whether or not ssl is used in communication to the RMI registry. Defaults to 'false'. (See class [RMIUtil](#))
- **org.cougaar.core.wp.resolver.transport.checkDeadlinesPeriod** Time in milliseconds between checks for message timeouts if there are any outstanding messages. Defaults to 10000. (See class [ClientTransport](#))
- **org.cougaar.core.wp.resolver.transport.graceMillis** Extended message timeout deadline after startup. Defaults to zero. (See class [ClientTransport](#))
- **org.cougaar.core.wp.resolver.transport.nagleMillis** Delay in milliseconds before sending messages, to improve batching. Defaults to zero. (See class [ClientTransport](#))
- **org.cougaar.core.wp.resolver.transport.noListNagle** Ignore the "nagleMillis" delay if the request is a new name list (e.g. "list ."), which is often a user request. Defaults to false. (See class [ClientTransport](#))
- **org.cougaar.experiment.id** The experiment identifier for running this Node; see *org.cougaar.filename* for details. (See class [Node](#))
- **org.cougaar.filename** The file name (.ini) for starting this Node, which defaults to (*org.cougaar.node.name*+".ini") if both *org.cougaar.filename* and *org.cougaar.experiment.id* are not specified. If this property is specified then *org.cougaar.experiment.id* must not be specified. (See class [Node](#))
- **org.cougaar.install.path** Used by FilePersistence as the parent directory for persistence snapshots when there is no directory specified in configuration parameters and *org.cougaar.core.persistence.path* is a relative pathname. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [BufferedFilePersistence](#))
- **org.cougaar.install.path** Used by FilePersistence as the parent directory for persistence snapshots when there is no directory specified in configuration parameters and *org.cougaar.core.persistence.path* is a relative pathname. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [FilePersistence](#))
- **org.cougaar.install.path** Used by FilePersistence as the parent directory for persistence snapshots when there is no directory specified in configuration parameters and *org.cougaar.core.persistence.path* is a relative pathname. This property is not used if the plugin is configured with a specific parameter specifying the location of the persistence root. (See class [FilePersistenceBase](#))
- **org.cougaar.install.path** Used to find keystore as "org.cougaar.install.path/configs/common/.keystore" (See

class [KeyRing](#))

- **org.cougaar.install.path** The *base* path for finding jar and configuration files. (See class [Node](#))
  - **org.cougaar.node.name** org.cougaar.experiment.id CSMART database experiment identifier (See class [DBComponentInitializerServiceComponent](#))
  - **org.cougaar.node.name** The (required) name for this Node. (See class [Node](#))
  - **org.cougaar.node.name** The name for this Node. (See class [XMLConfigParser](#))
  - **org.cougaar.node.validate** Same as “-Dorg.cougaar.society.xml.validate” (See class [XMLConfigParser](#))
  - **org.cougaar.security.certificate** The path of the *org.cougaar.install.path* for finding the *org.cougaar.validate.jars* certificates. (See class [Node](#))
  - **org.cougaar.security.keystore** The URL of the cougaar keystore. (See class [KeyRing](#))
  - **org.cougaar.security.keystore.password** The password to the cougaar keystore. (See class [KeyRing](#))
  - **org.cougaar.society.file** The name of the XML file from which to read this Node’s definition (See class [XMLComponentInitializerServiceProvider](#))
  - **org.cougaar.society.xml.validate** Indicates if the XML parser should be validating or not. Defaults to “false”. (See class [XMLConfigParser](#))
  - **org.cougaar.society.xsl.checkXML** Check for an XSL stylesheet, e.g.: `<?xml-stylesheet type="text/xml" href="society.xml"?>` Defaults to “true”. (See class [XMLConfigParser](#))
  - **org.cougaar.society.xsl.default.file** Default XSL stylesheet if “-Dorg.cougaar.society.xsl.checkXML” is false or an xml-stylesheet is not found. Defaults to null. (See class [XMLConfigParser](#))
  - **org.cougaar.society.xsl.dynamic.file** Dynamic XSL stylesheet that generates the XSL stylesheet based upon the XML file contents, unless an XSL stylesheet is specified in the XML file (-Dorg.cougaar.society.xsl.checkXML) or specified (-Dorg.cougaar.society.xsl.default.file). Defaults to “make\_society.xml”. (See class [XMLConfigParser](#))
  - **org.cougaar.society.xsl.param.\*** XSL parameters passed to the xml-stylesheet or default XSL stylesheet, where the above system property prefix is removed. For example, if a system property is: -Dorg.cougaar.society.xsl.param.foo=bar then the parameter “foo=bar” will be passed to the XSL file’s optional parameter: `<xsl:param name="foo">my_default</xsl:param>` (See class [XMLConfigParser](#))
  - **org.cougaar.thread.running.max** specifies the maximum number of running threads. A negative number is interpreted to mean that there is no maximum. The precise meaning of ‘maximum’ is varies by scheduler class. (See class [Scheduler](#))
  - **org.cougaar.thread.targets** Specifies a file which contains percentage targets for the children. (See class [PercentageLoadSelector](#))
  - **org.cougaar.validate.jars** If *true*, will check the certificates on the (*org.cougaar.install.path*+“/plugin/\*.jar”) files. Defaults to *false*. (See class [Node](#))
-