

# GCI: Tags

Google Cloud Injector automatically creates a known set of folders containing tags for Injector Control and Injector Info.

The tables below describe these tags.

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## Google Cloud Injector Control

Name	Data Type	Description
<b>Discover Edge Nodes</b>	Boolean	A writeable tag to request the BIRTH sequence for any new Edge Nodes to be published and the info tags created in the Google Cloud Injector Info folder (added 4.0.18)
<b>Discover Edge Nodes Required</b>	Boolean	A tag indicating there are new Edge Nodes present on the gateway that have not birthed yet and a Discover Edge Nodes request is required (added 4.0.18)
<b>Last Refresh</b>	Boolean	The time at which the last refresh request was completed (added 4.0.18)
<b>Refresh Required</b>	Boolean	A tag indicating that new tags have been identified by Google Cloud Injector and a refresh is required. This will force all Edge Nodes to disconnect and reconnect resulting in the sending of NDEATH, NBIRTH and DBIRTH messages

## Google Cloud Injector Info

Name	Data Type	Description
<b>Redundancy Role</b>	String	The redundancy configuration of the Ignition system that Google Cloud Injector is installed on. Options are Independent, Master and Backup
<b>Redundancy State</b>	String	The redundancy status of the Ignition system that Google Cloud Injector is installed on. Options are Active or Cold
<b>Refresh Required</b>	Boolean	A tag indicating that new tags have been identified by Goggle Cloud Injector and a refresh is required. The refresh can be accomplished with a full refresh of Google Cloud Injector or by refreshing the individual Edge Node affected (available 4.0.18)
<b>Version</b>	String	The version of Google Cloud Injector currently installed

## Agents

For each Tag Agent, a tag tree will be created with the tag path of TagAgentName > TagPath > GroupID > EdgeNodeID

Name	Data Type	Description
<b>Enable Tag Tracking</b>	Boolean	Writable tag to control whether or not to update Tags Per Seconds (added 4.0.17)
<b>Largest Mesg Xmit (bytes)</b>	Long	The largest message size in bytes sent by the Edge Node since the last time the metrics were reset via the Edge Node Reset Metrics tag
<b>Largest Mesg Xmit Timestamp</b>	DateTime	The time at which the largest message was sent by the Edge Node since the last time the metrics were reset via the Edge Node Reset Metrics tag
<b>Last Refresh</b>	DateTime	The time at which the last Edge Node refresh request was completed
<b>Refresh Edge Node</b>	Boolean	A writeable tag to request a refresh of the Edge Node. This will force the Edge Node to disconnect and reconnect resulting in the sending of NDEATH, NBIRTH and DBIRTH messages (added 4.0.18)
<b>Refresh Required</b>	Boolean	A tag indicating the new tags have been identified by Google Cloud Injector for this Edge Node and a refresh is required.
<b>Reset Metrics</b>	Boolean	A writable tag to reset the metrics for this Edge Node

<b>Tags Per Second</b>	Long	The number of tags changes published per second with the value updated every two seconds (added 4.0.17)
<b>Total Bytes Xmit (bytes)</b>	Long	The number of bytes sent by the Edge Node since the last time the metrics were reset via the Edge Node Reset Metrics tag
<b>Total Mesg Xmit</b>	Long	The number of messages sent by the Edge Node since the last time the metrics were reset via the Edge Node Reset Metrics tag

A folder will be created for each configured Google Cloud connection using the Name property from the connection configuration setting as the folder name.

Name	Data Type	Description
<b>Bytes Per Second</b>	Long	The average number of bytes per second pushed by the Edge Node since module restart
<b>Bytes Pushed</b>	Long	The number of bytes pushed by the Edge Node since module restart
<b>Bytes Queued</b>	Long	The number of bytes queued to be pushed from the Edge Node since module restart
<b>Enabled</b>	Boolean	A tag showing the Enabled/Disabled status of the connection
<b>Messages Failed</b>	Long	The number of messages that failed to be pushed from the Edge Node since module restart
<b>Messages Per Second</b>	Float	The average number of messages pushed per second from the Edge Node since module restart
<b>Message Push Time Average (ms)</b>	Long	The average time in milliseconds for each message to be pushed from the Edge Node since module restart
<b>Messages Pushed</b>	Long	The number of messages pushed by the Edge Node since module restart
<b>Messages Queued</b>	Long	The number of messages queued to be pushed by the Edge Node since module restart
<b>Messages Size Average (bytes)</b>	Long	The average message size in bytes pushed by the Edge Node since module restart
<b>Message Size Max</b>	Long	The largest message size in bytes pushed by the Edge Node since module restart
<b>Messages Stored</b>	Long	The number of messages stored to be pushed, if Store and Forward is enabled, since module restart
<b>Offline DateTime</b>	DateTime	The last time at which the MQTT Client successfully disconnected from the Google Cloud
<b>Online</b>	Boolean	A read-only tag showing the connection status of the MQTT Client
<b>Online DateTime</b>	DateTime	The last time at which the MQTT Client successfully connected to the Google Cloud