Replica Group Descriptor

A replica group represents an abstract grouping of identical, or very similar, object adapters. An object adapter joins this group by setting this replica group ID in its Replica Group field.

Properties

The Replica Properties panel offers the following fields:

- **Replica Group ID**
  The ID of this replica group. Must be unique within an IceGrid deployment.

- **Description**
  A free-text description of this replica group.

- **Proxy Options**
  The default Proxy Options for well-known objects defined within this replica group.

- **Well-known Objects**
  A table of well-known objects defined by this replica group.

- **Load Balancing Policy**
  The load-balancing policy used by IceGrid when resolving the Replica Group ID in proxies. Must be one of:

Policy	Description
Adaptive	Returns the endpoints of the object adapters whose nodes report the lowest load-average (on Linux/Unix) or CPU utilization (on Windows). The actual load-average or CPU utilization value of each node is multiplied by the node's load-factor for this comparison. See Load Sample below, and Node.
Ordered	Returns the endpoints of the object adapters with the highest priority. See Adapter.
Random	Returns the endpoints of object adapters selected at random. This is the default policy.
Round-robin	IceGrid puts all the object adapters in a list, and for each new resolution, it returns the endpoints from the next *How many Adapters* items on this list.

- **How many Adapters**
  Specify the number of object adapters selected by IceGrid for each resolution. 1 is a common value. When set to 0 (the default), IceGrid returns the endpoints of all object adapters in this replica group.

- **Load Sample**
  Available only with the Adaptive load-balancing policy. Specify the load-average or CPU utilization sample to use when comparing nodes: it can be 1 (default), 5 or 15 minutes.