

# 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 <a href="#">Node</a> .
Ordered	Returns the endpoints of the object adapters with the highest priority. See <a href="#">Adapter</a> .
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 <i>How many Adapters</i> 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.