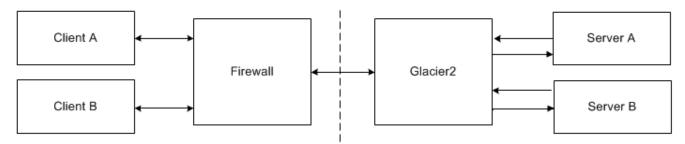
## **About Glacier2**





Glacier2, the router-firewall for Ice applications, addresses common firewall traversal issues with minimal impact on clients or servers (or firewall administrators). In the illustration below, Glacier2 becomes the server firewall for Ice applications. What is not obvious in the diagram, however, is how Glacier2 eliminates much of the complexity of firewall traversal.



Complex network environments are a fact of life. Unfortunately, the cost of securing an enterprise's network is increased application complexity and administrative overhead. Glacier2 helps to minimize these costs by providing a low-impact, efficient and secure router for Ice applications.

Glacier2 has the following advantages and limitations.

## Advantages

- · Clients often require only minimal changes to use Glacier2.
- Only one front-end port is necessary to support any number of servers, allowing a Glacier2 router to easily receive connections from a portforwarding firewall.
- The number of connections to back-end servers is reduced. Glacier2 effectively acts as a connection concentrator, establishing a single
  connection to each back-end server to forward requests from any number of clients. Similarly, connections from back-end servers to Glacier2 for
  the purposes of sending callbacks are also concentrated.
- Servers are unaware of Glacier2's presence, and require no modifications whatsoever to use Glacier2. From a server's perspective, Glacier2 is
  just another local client, therefore servers are no longer required to advertise "public" endpoints in the proxies they create. Furthermore, back-end
  services such as IceGrid can continue to be used transparently via a Glacier2 router.
- Callbacks through Glacier2 are supported without requiring new connections from servers to clients. In other words, a callback from a server to a
  client is sent over an existing connection from the client to the server, thereby eliminating the administrative requirements associated with
  supporting callbacks in the client firewall.
- Glacier2 requires no knowledge of the application's Slice definitions and therefore is very efficient: it routes request and reply messages without unmarshalling the message contents.
- In addition to its primary responsibility of forwarding Ice requests, Glacier2 offers support for user-defined session management and authentication, inactivity timeouts, and request buffering and batching.

## Limitations

- Datagram protocols, such as UDP, are not supported.
- Callback objects in a client must use a Glacier2-supplied category in their identities.

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## See Also

- How Glacier2 Works
- Common Firewall Traversal Issues
- Callbacks through Glacier2
- IceGrid



