Concurrency refers to the number of threads executing at the same time in a service instance.

You can control concurrency by setting the ConcurrencyMode property of the ServiceBehavior attribute.

There are three possible values for this property:

Single. One thread at a time can access the service object. This is the default value for this property.

Reentrant. One thread at a time can access the service object but the thread can exit and reenter.

Multiple. More than one thread at a time can access the service object.

**By default, only one thread at a time can access the service object. The first call to the service locks the service object.**

The service object queues additional calls in the order it receives them. When the first call finishes, the next call in the queue locks the service. The benefit to this approach is that there is no risk of two calls reading the same memory and changing the same data.

Discovery of The service:

The following command lines allow to discover the service

SvcUtil.exe net.pipe://localhost/WCFService/namedpipemex  
  
Svcutil.exe <http://localhost:5341/WCFService/mex>   
  
Svcutil.exe net.tcp://localhost:7777/WCFService/tcpmex  
  
Svcutil.exe <http://localhost:8080/WCFService/mex>