## **In-Process Services and Threading**

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## **In-Process Services**

- Consuming client running in same process as service host
  - Typically uses IPC binding no real reason not to
  - Both service and client use same contract
  - Can use either a proxy class or the channel factory
  - All features (including to be discussed) of WCF available
- If client calling service to update UI, hosting thread must be considered
  - If you remember, our message service is doing just that

**Demo Time** 

## **Hosting Threads**

- By default a service host opened in a UI will instantiate and execute services on that thread
- A service running in a UI may want to update that UI
- Must make sure UI is not busy or service will wait
  - This is going to be key in my example
- Can also force services to execute on worker thread
  - UseSynchronizationContext property
  - Must marshal for UI updates
- Marshalling can be done with SynchronizationContext object
  - More organized than "invoke"
  - Been around since .NET 2.0

**Demo Time**