

Re: Architectural Problem: Own Adapter vs. SQL Adapter

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- *From:* "Tomas Restrepo \ (MVP)" <tomasr@xxxxxxxx>
 - *Date:* Thu, 26 Jan 2006 18:43:21 -0500
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Hi Adam,

> But I'm still not sure which way is the best.

well, it's not an easy question, and it really depends on a lot of things we probably don't know about your scenario :)

- > My application works in a
- > global intranet (till now 32 countries are using it). New middleware
- > with BizTalk is a part of this intranet but I do not have control over
- > it. So I'd like to have something between WebServices solution and fast
- > direct access solution (means SQL Server Adapter). I'd like to serve a
- > functionality with my own business rules but without cons of slow
- > protocols like soap etc. "offer".

SQL Server doesn't necessarily have to be the fastest or best solution, depending on the amount of data you generate, what the concurrency and frequency is and stuff like that.

It also depends a lot whether your scenarios are primarily one way or two way (and in which direction) or one-way both ways. You also need to consider transactional semantics, and whether you are more interested in a fully synchronous implementation or you can do with some asynchronicity (which doesn't necessarily mean a lot of delay). It also depends on the data size, and whether you are more comfortable with a push or a pull solution (by now I've probably confused you even further, I know:))

For example, if my scenario was based of basically moving data one way, for example having my custom app notifying of business state changes to external observers (aka biztalk and from there to third entities), and my data was smallish in general, I would probably go myself with having the app (or a service thereof) generating messages into MSMQ queues and have BizTalk read those. It's fast (MSMQ was built to push messages into queues very, very fast), very reliable if done well, and you already have adapters to work with it, meaning less time to develop.

However, if my scenario included synchronous request/response type of interactions, I would certainly not use MSMQ at all, or if the messages were

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very big (because of MSMQ message size limitations).

Sure, going through the DB might seem like less work at first, but it usually involves either: Replicating a lot of data (i.e. putting all business data into the message notification tables) or putting just the notifications themselves out and have the interested party query the real business data off the real db tables, which is a) cumbersome to maintain, b) increases contention and concurrency, and c) it's painful to deal with the application's business rules as you're going to the DB directly.

One thing I do not have clear from your scenario is just where do you expect to get the data to. You say that your application works on the global intranet, but it doesn't seem like that would be significant for solving your biztalk problem unless you expect the base application and the biztalk solution to be deployed far away from each other (i.e. if they are not in the same data center, to put it somehow).

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Tomas Restrepo
tomasr@xxxxxxxxx
<http://www.winterdom.com/>

• **References:**

- ◆ **[Architectural Problem: Own Adapter vs. SQL Adapter](#)**
◇ From: Adam Boczek
- ◆ **[Re: Architectural Problem: Own Adapter vs. SQL Adapter](#)**
◇ From: Tomas Restrepo \((MVP)\)
- ◆ **[Re: Architectural Problem: Own Adapter vs. SQL Adapter](#)**
◇ From: Adam Boczek

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