As an IT manager, you get so caught up with the day-to-day tasks and problems of your IT architecture that it is easy to put off doing an assessment of your organization’s overall architecture. In fact, executing an architecture assessment is a big task but it is key to remember that doing such an assessment will benefit your organization in the long-run.

Here are some key reasons for doing an architecture assessment and a potential method for you to employ.

**WHY DO IT?**
What is it that makes an enterprise architecture assessment a worthwhile undertaking?

In essence, the purpose of an IT architecture is to align the IT infrastructure with the organization in a way that best promotes the organization’s goals, while maximizing the benefit of IT dollars spent. The architecture assessment is meant to clearly understand how that purpose is currently being served. So the purpose of undertaking an enterprise architecture assessment is to understand how well the current architecture is aligned with the organizations needs and goals.

**WHAT IS IT?**
What we mean by enterprise architecture is the set of plans that describes how all parts of the IT infrastructure need to behave or currently behave in support of the enterprise needs and goals. So, this includes all the data, the functions, the technology, and the people that constitute the infrastructure. And then an architecture assessment becomes: the process of collecting and analyzing data about the current state of enterprise architecture, drawing conclusions about how well it supports the enterprise, and reporting results.

**WHERE IS THE VALUE?**
Undertaking an architecture assessment often proves valuable in other ways too.

- It allows for a fact-based understanding of the costs and benefits of the current IT infrastructure to the organization. This is valuable even if you don't need to make changes; you'll have the facts to support your methodology for your current architecture.
- It helps to clarify how the current architecture contributes to perceived business problems or positively supports goals. An assessment looks at both what is working and what is not.
- Because it surfaces problems with the current infrastructure, an assessment helps to identify where re-architecting can improve business costs, improve business functionality or process, and improve IT efficiency (e.g., reduce IT costs, eliminate duplication).
An assessment often provides the business case data and the impetus to fund re-architecture since an assessment provides a relatively objective look at what needs to be kept or changed and why.

**WHAT DOES IT REQUIRE?**
When I've been asked to conduct an assessment, I basically attempt to follow "police procedure" and identify motive, opportunity, method and "evidence."

**Motive**

First, we look at motive: why should your organization want to do an assessment? What is the trigger for doing an assessment and why now? The most common "good" motives are:

- A desire to improve a specific business process or support a major business change (e.g., a new market or service)
- An organization change (e.g., job elimination or consolidation, management restructure)
- An existing commitment to revise part of the current architecture for a major project. For example, one client was funded to re-engineer their billing systems—a very large undertaking—so they wanted us to take a look at what they were proposing and help make some decisions. For us, that began by looking at what was currently in place.

Even though it is tempting to jump into creating a new architecture, assessment is the right place to begin! If you then decide to continue on to re-architecture, your effort will be far more "science" than "art."

**Opportunity**

If you know you have your organization's commitment to re-architecture, it will probably be simpler to gain their agreement for an assessment. If you are not sure, do what is necessary to gain support, for the purpose of assessment is to discover problems. You may need executive support for an assessment to ensure the bearer of bad tidings is welcomed (not shot!) Even if your organization decides not to undertake target architecture development, assessments still provide substantial benefits.

Here are some selling points you might use:

- The assessment results provide a clear benchmark against which to evaluate proposed IT changes. For example, if you're considering CRM, a new database, or upgrading to Microsoft Vista, an assessment identifies how the change will "fit" into the existing infrastructure.
- The assessment may highlight or identify major "fix" projects and impacts. Your organization may still decide to fix a "piece" of the infrastructure (e.g., consolidate a couple of databases) even though they don't want to do a wholesale re-architecture.
The team who conducts the assessment becomes a highly trained resource that can make informed decisions or recommendations for management about proposed IT solutions including risks and consequences. This is valuable whether you plan to develop a complete IT architecture or you are trying to determine if or where your CRM/EAI/ERP/Portal/Web Services (you get the idea…) fit. The bottom line is that you want your infrastructure to be aligned with business goals and ensure that IT funds are spent where they are needed.

Method

There are many different methods for doing an architecture assessment. We developed the "Toolkit for Enterprise Information Architecture" as a practical response to many architecture "lessons." The Toolkit is a methodology for creating the outputs for each of our three enterprise architecture frameworks shown in Figure 1. We apply the Toolkit methodology to teach architecture, develop enterprise architectures and conduct architecture assessments for clients.

We use the Toolkit for architecture assessment because:

- It supports assessing enterprise architecture vs. e.g. technical architecture only.
- It considers the business needs as primary architecture drivers.
- It provides a natural "segue" to target developing architecture.

We use the Toolkit differently for assessment than for architecture development. The highlighted "cells" in Figure 1 illustrate where we focus our effort in an assessment.

Evidence

At a high level, the following steps identify the parts of the Toolkit we use to collect "evidence" and conduct enterprise architecture assessments:

**STEP 1: Business Framework-Identify the Business Current and Target States**
To develop a useful view of the business, we develop current and target state descriptions. In general, our data collection follows this path:

- Document collection and analysis: Collection of formal/published, easily available, commonly shared and understood views of executives about the organization (e.g., mission/goal statements, key initiatives).
- Interviews: Less formal collection of views from executives and key players in the organization to identify current business process problems, describe current business plans and direction, and clarify how the current IT infrastructure is perceived to contribute to current business problems.

We organize our outputs into lists and/or process flows of current and desired states.

STEP 2: Architecture Framework-Identify Current State Architecture
Our goal in this step is to put together architecture models that illustrate the existing relationships between data, functions and platform components. We also collect or develop inventory for existing data, function/application, and platform components. We strongly recommend the capture of cost data associated with Inventory. When these documents do not exist or are outdated, we develop them by conducting architecture interviews, reviewing existing documents, and preparing drafts for review and update.

STEP 3: Analyze
In this step, we apply analysis techniques to the business current and target state descriptions to identify business problems, gaps and opportunities. We also apply analysis methods to the current state architecture to evaluate where the architecture contributes to business problems and gaps.

STEP 4: Consult the Framework for Implementation
In this step, armed with our lists and analyses, we examine our outputs for never-to-be-overlooked "political" considerations. That is, we test our outputs against current processes, measurements, and organization "readiness"-is the organization extremely change-averse?

This step also provides a "sanity check." For example, if our assessment indicates the need for a complete organization restructure or wholesale business process changes, we may want to consider biting off a smaller piece of the pie. When we have a realistic set of problems and gaps (think ten, not hundreds), we assemble the data-first for a "readout" presentation, where we encourage discussion (is this the "right" list of problems?) and finally into a more formal report on the state of the architecture. Very often, a clear set of recommendations has emerged, so include them here; this is a perfect opportunity to propose target architecture work.

I know first hand that what we have described here requires significant knowledge, work, and tenacity, but the results are well worth the effort. I know of no more effective, less haphazard approach to clearly understanding how IT supports the business and where it is valuable and cost-effective to pursue change.
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