

# Your DLA Development Project



- Reliable
- Efficient
- Fully Integrated
- Customized to Fit You

## Project Overview

As you know, the implementation process you follow is as important as the quality of the software itself. It is essential that your business processes match the work flow supported by your new software, that your existing data is effectively converted or entered, and that your staff are sufficiently familiar with the system to make effective use of it. D. Lawton Associates has many years of experience successfully implementing custom systems in organizations like yours.

#### When you work with us, you can expect:

- The implementation will be a team effort. We're experts in the
  implementation process. You know how your organization operates, and
  the things that will help your organization run more smoothly. Working
  together, we can help you realize the benefits of a successful automation
  project.
- As with any team effort, communication is key. All of the tasks will be well
  documented, and everyone will know in advance what is expected of them.
  Project status reports will help you monitor the progress of the project.

#### We divide the implementation into four phases:

- Phase I: Planning & Analysis. We review your business practices and identify the modules and features that are required to meet your objectives.
- Phase II: Solution Design & Development. We develop the software you require, drawing upon our extensive prior experience. This includes software data integration, reporting, and data conversion scripts.
- **Phase III: Deployment.** We work with you to deploy your new application.
- Phase IV: Support. Once you are up and running, we provide ongoing service and support that you require.

Phase I and Phase III are very similar from one project to another, but Phases II and IV vary significantly depending on the unique requirements of each project. Each of these facets of our implementation process is described in greater detail on the following pages.

## Project Team

There are usually three organizations participating in each project:

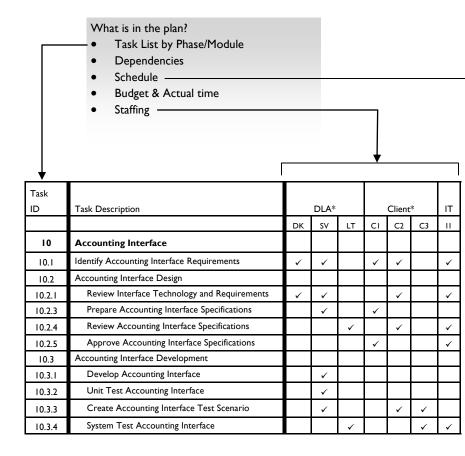
- First of all, there is your staff. Your team is responsible for each of the functions you are automating, so they are the best source of information about your needs. If you have a large team, you may want to designate representatives of each perspective to keep the project manageable.
- D. Lawton Associates brings several skills to the table. In addition to our in-depth technical skills, we understand how to implement complex systems and can ensure the success of your project.
- Lastly, your IT staff are likely to get involved. The new system will be running on their
  computers and information will be carried across their networks. They will want to
  make sure they understand what the system needs to operate reliably, and they will
  want to be comfortable that the system doesn't compromise the stability of their
  other applications.

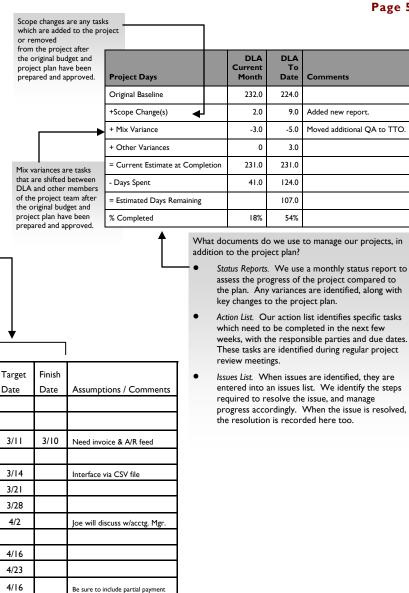
At the start of the project, one of the key steps is to clarify how several key roles will be filled. We will organize the project team to meet your requirements, but it often looks like:

- Project Management. DLA usually takes the lead in project management, since we're
  familiar with the process. We prepare the action lists, issues lists and status reports, for
  your review. We're happy to share project management with your staff if you'd like to
  take on some of this yourselves.
- Design/Requirements. Your staff takes the lead in defining their requirements, and it is
  always best if you can document these requirements yourselves. We provide the
  structure for this effort, ensuring that design tasks are effective.
- Development. We take the lead in development, including conversion scripts if needed.
   Throughout the process we will keep you informed of any technical questions.
- Quality Assurance. Quality assurance is a key responsibility, and is a core principle of
  our implementation process. Our job is to make the software conform to the
  written specifications. It is your responsibility, working with us, to ensure that your
  requirements and work flow are completely and accurately documented. Our
  standard document formats help to ensure that key considerations (e.g. security)
  aren't overlooked.
- Server & Desktop Deployment. This role often rests with your IT staff, though your staff
  and DLA staff often participate. The goal is a reliable and supportable infrastructure on
  which your new system will operate.
- Documentation. We provide technical documentation including source code and database definition. The project will also consist of requirements documents, detailed system design, user procedures and work flow.
- Training/Support. Usually, you will assume primary responsibility for user training and first-line support. Your designated representative contacts DLA when needed, for enhancements, bug fixes and general support requests.

### Project Plan

The project plan is one of the keys to a successful project. We work with you to develop the initial plan, and we manage the project according to this plan, making any adjustments as needed. A solid plan ensures that your project will be successful, since it ensures that everyone on the team knows what they are expected to do and how their tasks impact other tasks.





Start

Date

3/4

3/11

3/15

3/22

4/1

4/3

4/17

4/7

4/24

4/30

### Phase I: Planning & Analysis

It is crucial, at the start of your project, to get a clear picture of both your business objectives and the path you'll follow to reach them. This can then be communicated to everyone on the team so that they are all working towards the same target.

#### During Phase I we will:

- Review and discuss your work flow and business requirements. It is critical that all your needs are clearly identified.
- ♦ Identify the project team, including the assignment of key roles.
- Based on your requirements, identify and document the system's functionality including modules, interfaces and data conversion.
- ♦ Identify all deployment requirements, including training and data conversion.
- Start defining ongoing support requirements, to be reviewed and adjusted prior to Phase III.

#### Our Phase I process is straightforward:

- We start with a kickoff meeting, to introduce the project team and map out the tasks for the completion of Phase I.
- This is followed by meetings focusing on the requirements and work flow for each module or feature of your new system. We start with the 'entities' (customers, patients, vendors, products, etc.) and then move on to 'transactions' (orders, invoices, payments, examinations, etc.) involving the entities. Each of these is examined from the perspective of each type of user you anticipate. During this process, we identify any issues requiring additional discussion.
- Each issue is then addressed by the appropriate team, and a resolution will be identified. Issues are generally resolved by either a change in your procedures or a functional requirement for your system.
- As the issues are being addressed, the work plan for the remainder of the project is developed.

#### Upon completion of Phase I, you will have received the following deliverables:

- Work Plan. A key deliverable of Phase I is the work plan for the remainder of the project. This work plan identifies all the tasks on the project, with estimated labor requirements and projected schedule, for all participants in the project.
- Feature Definitions. For each Phase II development task, a functional description is completed during Phase I. This document clearly describes the requirements and functionality to be designed and developed during Phase II, and serves as the baseline document for Phase II design tasks.
- Team/Roles Definition. This document identifies all of the members of the implementation team and their roles.

## Phase II: Your Unique Requirements

During Phase II, we design and develop the application you need, as identified and prioritized during Phase I. The process we follow during Phase II is described on the following pages.

#### **Data Entry**

Data entry pages/forms are the primary mechanism for users to view and/or enter data in your new application. The content and layout of each form is optimized to support your work flow. For example, if you typically enter data from an existing document, you'd like the form layout to match the source document layout as closely as possible.

#### Reports

Printed reports are the primary mechanism for the distribution of information from your system. We typically offer a variety of selection criteria and/or sort options for each report, and can make your reports available in a variety of formats, including PDF and Excel. Depending on the technology selected, reports can also be 'bursted' to specified email addresses on a pre-defined schedule.

#### **Automated Processes**

Tremendous productivity can be achieved by automating some of your business processes. Batches of invoices can be generated, interest can be applied to past-due accounts, or reminders can be sent to email addresses.

#### System Interfaces

The system we develop may interface to external systems. We can develop feeds in either direction, ensuring the timely transfer of critical business information, a reduction in duplicate effort and cross-functional reporting.

#### **Data Conversion**

If you have data in multiple current systems, we can define a data conversion process to transfer the data to the new system. Data conversion can include a variety of sources, including Excel, databases and legacy system data.

### The Development Cycle

#### Design

The objective of the Design process is to produce specification documents for any modules which

are required. These documents are essential for the following:

- Your staff review and approve the specifications, indicating that their requirements are accurately and fully described.
- Our developers refer to these documents as they are developing modules. These
  documents are the 'recipe' for the required functionality.
- The quality assurance team (both DLA and your staff) refers back to these documents as
  the functionality of the application is tested prior to release.
- The specifications are a written record of decisions which were made by the team, and are an integral part of the technical documentation. It is frequently useful to refer back to these documents.

Functional design decisions are made during design meetings which usually include both your staff and DLA staff. The documents themselves may be written by either you or DLA depending on how the roles are defined. Each document will include:

For programs:

data design – what data is required to support the business function? GUI design – how will this data be represented on forms? functional design – how will the module operate?

For conversion scripts:

identify data sources. define source to target map. define any translation or validation requirements.



#### Management/Review

There are two management/review cycles which we follow during the course of the project:

- The implementation team (your staff, DLA and IT) meets or talks regularly to review the status of the work plan, identify requirements issues and identify critical items in the near future.
- The DLA project team (manager, developers and analysts) speak regularly to discuss resource assignments and technical obstacles.

It is reasonable, of course, for the your staff to talk regularly about the status of the tasks on their plate, and to work out organizational issues without direct involvement of DLA. Any analysis done by your staff prior to design or status meetings will reduce the overall cost of the project.

#### Development

After a design has been approved, our development team gets to work. Our project manager knows each of the tasks awaiting development and the work loads of our developers, so they can assign each task to the appropriate developer. The developers review the specifications and develop necessary modules. Once the work is complete, the developer performs unit testing and then turns the completed software over to the project manager.

The "tools of our trade" are among the best in the industry. Your data will usually reside in an industry-standard SQL database. We use Delphi and Java to develop most client software, and use JSP for most Web-enabled applications. Our applications are compatible with most popular reporting packages so you can easily develop many of your own reports. During 2003, we standardized on the use of virtual machines for our development environments, making it even easier to give you a copy of a fully functional development environment if you'd like to receive one.



#### **Quality Assurance**

Quality assurance is vital to the success of the project, since this process determines when your application is ready for deployment. It is understood and expected that specifications will occasionally be incomplete or ambiguous, and their content can sometimes be misunderstood. Oversights occur,

and the QA process is designed to catch as many as possible before deployment. Here are some things to think about as you join us in making sure that your application works as you expect:

- Define the testing and acceptance process up front, so everyone knows their roles.
- Be sure to define specific test cases, and identify the data which is required to test these
  cases.
- Quality assurance is most effective if people who weren't the original designers and developers also participate. The extra set of eyes is helpful.
- Process some real business transactions using your new application, not just 'made up' transactions. It is amazing how many exceptional situations are identified in this manner.
- It is your responsibility to determine that the software is working correctly, and to identify
  any areas where it doesn't meet the requirements.
- Your requirements are always more important than the specifications. If something was
  overlooked, the specifications and the application can be changed.

# Phase III: Deployment

The deployment phase is an exciting time. You've defined your requirements and participated in design meetings. You've tested the software and verified that it does exactly what you expect. Now you're going to use it! It is tempting to skip a few steps, but you will find that all of the following are needed.

#### **Planning Ahead**

- Develop and implement a plan to decommission any older systems which
  you are is replacing. Most of our clients don't run in parallel, due to the
  cost and time required for this, but the older systems are left on 'standby'
  for some period of time until everyone is comfortable that the new
  application is working correctly.
- Define a support escalation procedure. When a user has a question or thinks the system isn't working correctly, who do they call? Who is responsible for determining whether the problem was the result of a system error, some data issue, or user error?
- Define a suggestion process. How will users request new features, and who will get back to them to thank them for their feedback. How will you manage and prioritize the resulting wish list.
- Develop and implement a user communication plan, preparing them for the roll-out. Be sure to explain the support and suggestion procedures.
- Demonstrate the new application to your users. We can conduct the training with you, or we can help prepare your training team.

#### Initial Roll-Out

In most situations, the roll-out is performed during the evening or over a weekend, to ensure that the process has time to complete and to minimize impact on your operation.

- Install and configure the database server and any new desktop computers.
   Roll out the new software and supporting files to server and desktops.
   Your 'test' version of the system will continue to run so that new features can be evaluated before future roll-outs.
- The data conversion scripts are run, transferring your existing data to the new production database.

The first roll-out will be the most involved. For maintenance releases and periodic functional updates, you will find that planning ahead will ensure that each release goes smoothly.

#### www.dlawton.com

### Phase IV: Ongoing Support

You should expect to use your new software for a minimum of 5-7 years, and this life can be significantly extended with regular ongoing maintenance. Our support services after deployment include:

- Ongoing software maintenance and bug fixes. During the course of a
  year, we frequently get minor requests which are easy to respond to.
  Sometimes we're asked to rearrange the fields on a form, or make one of
  the fields a bit longer. Sometimes, we're asked to add a 'shortcut' to get
  from one part of your application to another more quickly.
- Security Patches. For all systems, we will recommend keeping the
  underlying web or database software up to date with the most recent
  security patches. We will define a plan with you based on documentation
  from each software vendor.
- Enhancements. Most of our clients maintain a 'wish list', with suggestions and ideas from current users. Each year, they allocate a portion of their budget to these enhancements, and select the enhancements with the highest priority for development.
- Sometimes, you need support which isn't directly related to the new
  application itself. Maybe you printed a report, and the numbers don't seem
  right. If you need help digging into the data to explain why a number is
  what it is, we can help you.

Because of our focus on custom software, we realize that our clients rely on us for each of the above support services. We make ourselves available to assist you, whenever you need us, in the following ways:

- Phone. If you have a question for us, just give us a call. We do suggest
  that you designate one person to be your regular interface into our
  support team. We're easy to reach.
- Remote. We use software such as Cisco Webex and VPNs to connect our office to yours. With your oversight, we can see what you are seeing and discuss options. If we make changes, we can deploy them directly with your approval.
- Onsite. If you need us there, we'll be there. Our commitment to
  customer satisfaction means we're on your premises whenever you want
  us. Some complex issues are best discussed in person, and sometimes you
  just need us there for your own peace of mind.

# There are many reasons you should choose D. Lawton Associates.

- We have a proven track record, successfully implementing custom-tailored systems since 1986.
- We strive to establish long-term relationships with our clients, many of whom are listed on our Web site. As we learn about your needs, we can refer you to past clients for whom we've completed similar projects. All of our accounts are great references.
- Our responsiveness to your needs and requests is unequaled. We are dedicated to your success, and the success of your systems project.
- Our management and technical staff are the best in the industry, with an average of more than 20 years of relevant experience.

