

## The Progress Electronic Magazine

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*Though intended for users of the software tools provided by Progress Software Corporation, this document is NOT a product of Progress Software Corporation.*

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**Publisher's Statement:**

This month I explore the use of Webspeed in conjunction with the Avantgo HTTP client available on the Palm OS and Windows CE compatible PDAs. A simple partner information system is written to explore the use of this technology. This is a simple content management system allowing users to access news and updates from the company.

Included also is the continuation of the series for proposals.

Also would like to say – still looking for work in the Progress space! Would appreciate some emails or phone calls from people who have something.

I am also looking for resellers for the Service Express product. Need something to work on? Here is your opportunity to make work for yourself!

Also, if you are a consultant, and know of any small or medium business that could benefit from a web based help desk like Service Express – please contact me. I would like to set up a network of people who would bring in and aid customers with ASP Service Express. Sell the idea, configure the app (via the web), support questions, and provide training. We take care of the rest on our website and servers.

If you have an idea, and a marketing plan as well people who can perform the sales actions, let me know – we might be able to write some code to make your product come alive!

I have also started a new section called The Open Source Corner. This is best for programmers because with Open Source, it is not only the corporation that benefits, but the programmer also. Source code means jobs. Source code means needing someone around to make sense of it. Source code is good.

To your success,

Scott Auge

Founder, Amduus Information Works, Inc.

[sauge@amduus.com](mailto:sauge@amduus.com)

**The Open Source Corner:**

I have released a couple of new open source products. One is DBEmail – available at [freeframework.org](http://freeframework.org) and [amduus.com](http://amduus.com). This will suck in emails from a pop3 mail box and use a searchable web site to search them. Makes the knowledge a little more available to people within an organization. (Be forewarned, it is pretty rough around the edges, but is functional.)

The other is CMS – a content management system for web sites. Eases the ability of people to post new articles on the web site, as well keep the web site updated automatically. I will be converting Amduus to this shortly, so there will be a production use of the code base. An unnamed company will also be using this system.

Rares STANCIULESCU has released an open source product similar to CMS at <https://sourceforge.net/projects/wsnewskit> and one can see it at work at <http://80.65.226.179/news.html>.

This site is an interesting find – it helps develop business cases for the use of Linux in the enterprise.

<http://www.aaxnet.com/design/linux0.html>

If you have open source apps/tools for the Progress environment – and even update messages, please send them along and I will post that information in the next E-Zine.

Have you sent in a donation to keep the E-Zine available?

This E-Zine is published by Scott Auge on his own time. If you feel that the E-Zine is helping you with your skills or is valuable to your work - please send in a donation of \$10.00. There is no appreciation like monetary appreciation!

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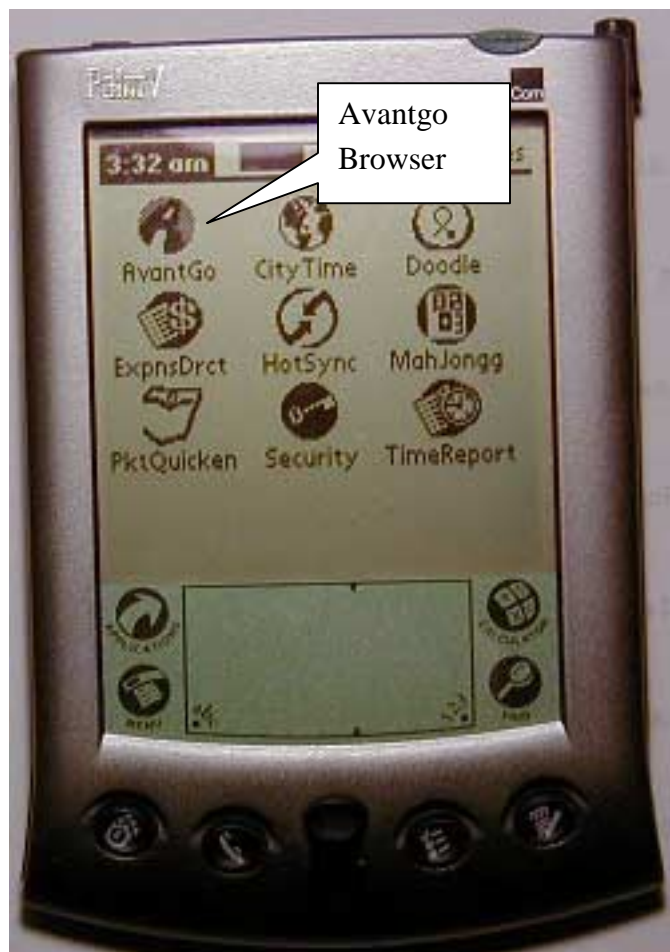
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Creation of modules and products for re-sale  
as well customized Internet/Intranet programming  
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service and law enforcement industries.

**Coding Article: Webspeed and Palm Pilots (PDAs)**

*Written by Scott Auge*

Wireless and remote devices are becoming far more common in both the consumer and enterprise marketplace. This article explores the use of Webspeed/Blue Diamond<sup>1</sup> to construct a simple content management program to send and display articles to a Palm Handheld using the Avantgo Web browser<sup>2</sup>.



*Applications Screen of Palm  
with Avantgo Browser*

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<sup>1</sup> Blue Diamond is an open source Webspeed alternative. It is available at Amduus and other sites on the web.

<sup>2</sup> Yes, I am writing this at 3:30 in the morning!

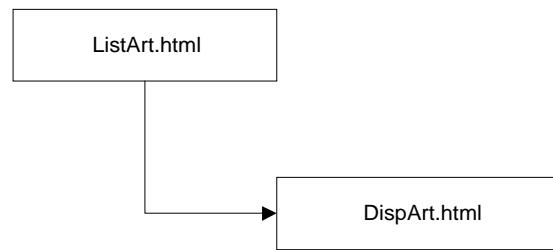
---

The Avantgo web browser client is available from Avantgo.com for free. One can also set up personal “channels” which really are web sites using the special HTML the Avantgo client can render.

### *Theory of Operation*

Only the source code relevant to getting information to the Palm Device will be detailed here. The source code as well the database definition file can be obtained from the Open Source area of [www.amduus.com](http://www.amduus.com).

The content display portion consists of two simple web pages as diagramed:



*Two web pages making up content system  
relevant to the Palm device*

The ListArt.html page will contain links with named value pairs to DispArt.html. These named value pairs will be used to identify which record in the database should be brought up and rendered by the Webspeed Transaction Server or Blue Diamond Transaction Server.

This program was tested with a Palm V handheld. It does not have a continuous connection to the internet, so during Hot Syncs, it downloads the web sites into memory for display on the screen. Some setting up is needed to do this, and that is presented later in the article. The server is Red Hat Linux for VA Linux version 6.2. The Progress version is 9.1A with Blue Diamond 1.6.6 or Webspeed 3.1.

The element of code that the Avantgo WWW browser needs is a meta setting highlighted in **RED** in the code below. The E4GL mark-ups are done in **BLUE**. The web browser can handle most HTML tags – one mostly only has to consider for screen size.

***ListArt.html***

The purpose of this page is to create a list of titles to the articles within the content management system. It is the opening page of the site that conveniently lists the articles available within the system.

It is a simple HTML page that matches the needs as specified in the Avantgo client manual for developing web pages. In general, it is developing HTML that can be viewed on a small screen, as well understanding the use of the client in a disconnected mode.

```
<!--WSS
/*
 * Written by Scott Auge scott_auge@yahoo.com sauge@amduus.com
 * Copyright (c) 2001 Amduus Information Works, Inc. www.amduus.com
 *
 * Redistribution and use in source and binary forms, with or without
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 * are met:
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 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */

DEF VAR RCSVersion AS CHARACTER INIT "$Header$" NO-UNDO.

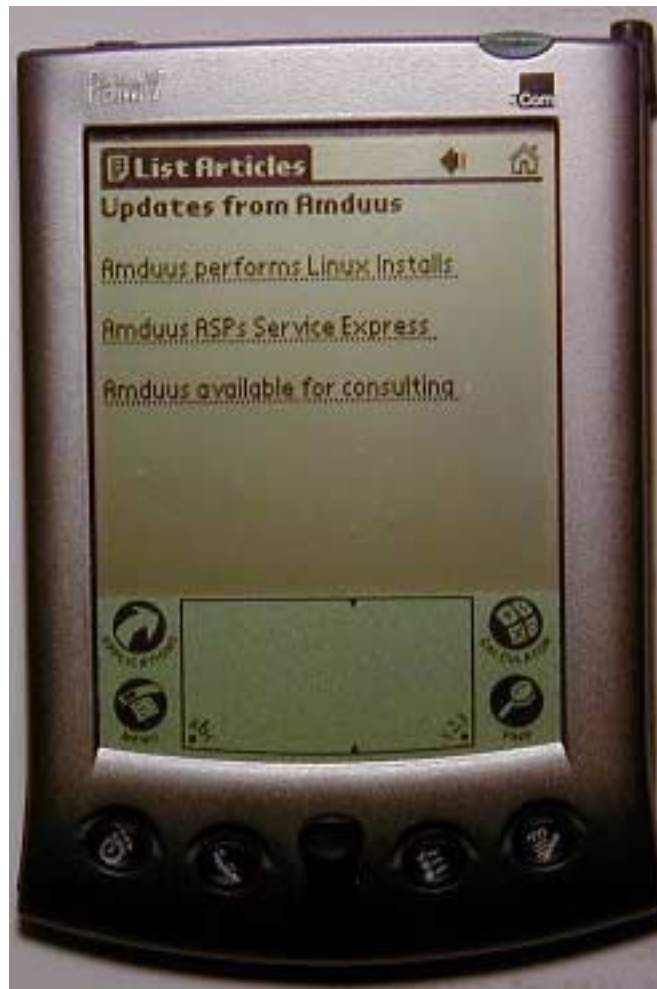
-->

<html>
<head>
<title>List Articles</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<meta name="HandheldFriendly" content="True">
</head>
```

```
<body bgcolor="#FFFFFF">
<p><b>Updates from Amduus</b></p>
<!--WSS

/* Display 10 days of articles */

FOR EACH Article NO-LOCK
WHERE Article.StartDate > TODAY - 10:
-->
<p><a href="DispArt.html?ArticleID=`Article.ArticleID`">`Article.ArticleTitle`
</a><br>
<!--WSS
END. /* FOR EACH Article */
-->
</p>
</body>
</html>
```



*The ListArt.html page on the Palm V*

### ***DispArt.html***

This program will display an individual article within the content management system. It uses a NVP (Name-Value Pair) to identify the record associated with the article. The entire text of the record is rendered via the Article.ArticleText field reference.

```
<!--WSS
/*
 * Written by Scott Auge scott_auge@yahoo.com sauge@amduus.com
 * Copyright (c) 2001 Amduus Information Works, Inc. www.amduus.com
 *
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 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
```

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```

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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
*/

DEF VAR RCSVersion AS CHARACTER INIT "$Header$" NO-UNDO.

DEF VAR cArticleID AS CHARACTER NO-UNDO.

ASSIGN cArticleID = GET-VALUE("ArticleID").

/* Note that this assumes that the article is available. There should be a */
/* response for articles that are not available. This code does not ac- */
/* complish this for sake of clarity of getting a page out to the Palm */
/* device. */

FIND Article NO-LOCK
WHERE Article.ArticleID = cArticleID
NO-ERROR.

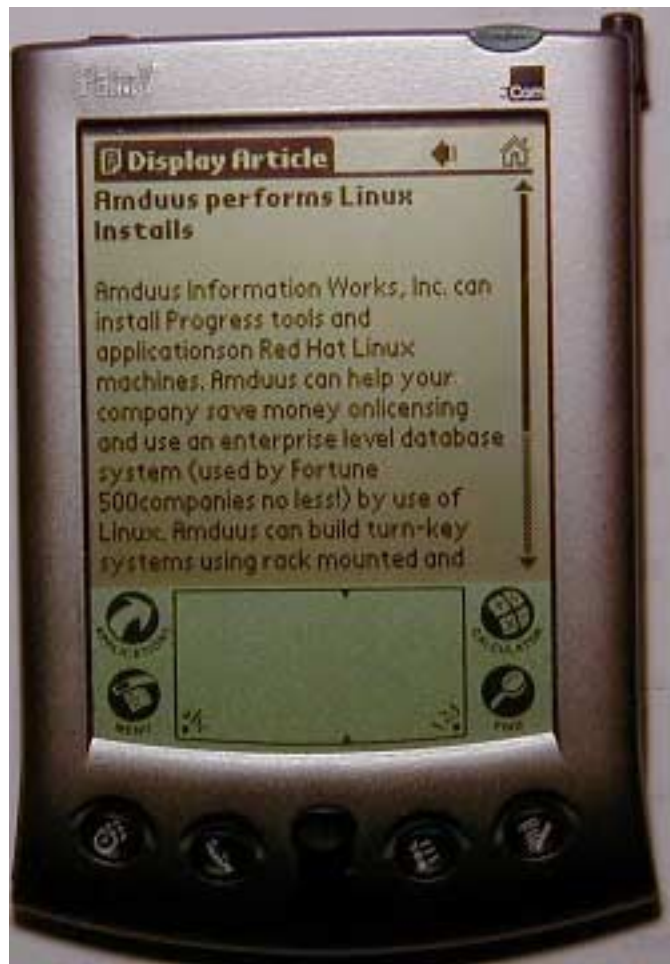
-->

<html>
<head>
<title>Display Article</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<meta name="HandheldFriendly" content="True">
</head>

<body bgcolor="#FFFFFF">
<p><b>`Article.ArticleTitle`</b></p>
<p>`Article.ArticleText` </p>
</body>
</html>

```

---

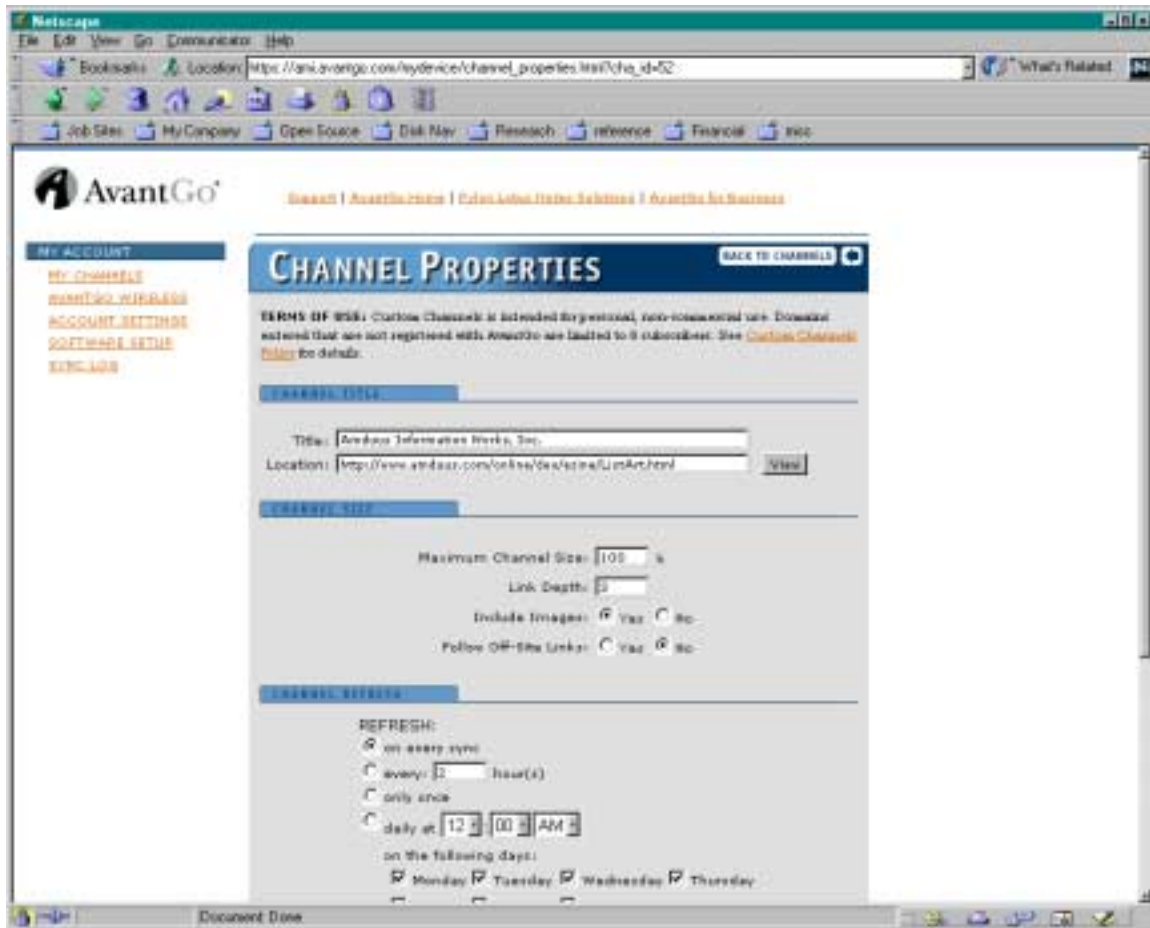


*Viewing an article on the Palm V via Blue Diamond*

***Setting up the channel on Avantgo's web site:***

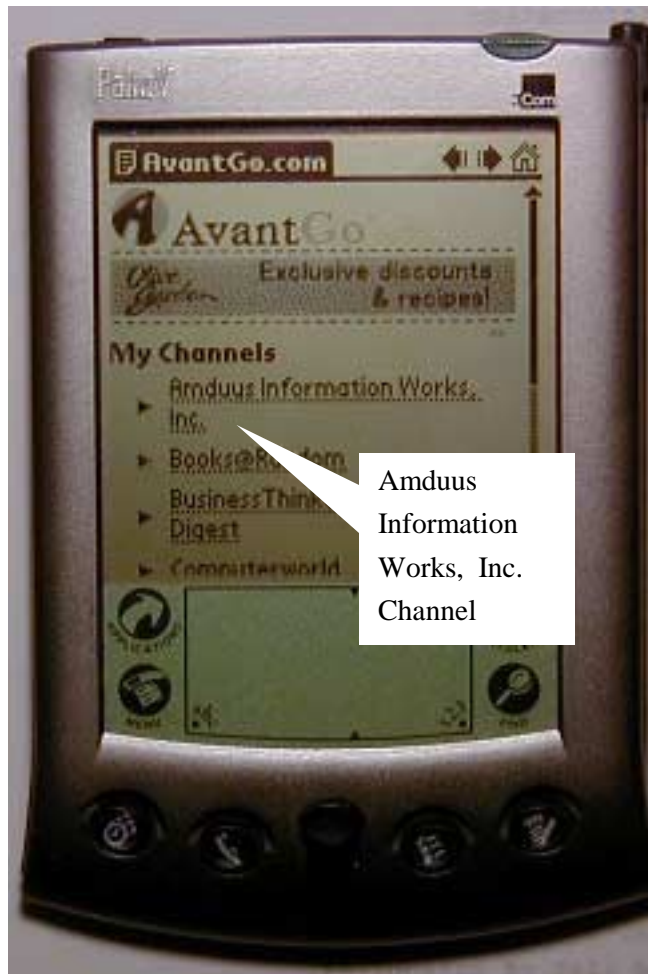
Setting up a channel on the Avantgo web site is easy. This way simple development or even becoming an Avantgo content provider can be done. Note that this would be a public site available if done this way – and one may want to buy the Avante Go software package to run on one's own servers if it is to be used within a company.

In short, create an account ID on [www.avantgo.com](http://www.avantgo.com) and create a channel by pointing a URL and naming it. One will want to set the depth of the web site to match the deepest link you may have on your site. In other words, if it takes five clicks to reach into the web site, you would want the depth to be five.



*Creating a channel on the Avantgo Web Site*

After performing a Hot Sync, the channel appears on the Client:



*The Amduus Information Works, Inc. Channel on the WWW Client*

The web browser can support forms, cookies, SSL, as well as limited JavaScript and Apache password authentication. Of course, by use of cookies or NVPs, one can authenticate a user within the E4GL application.

#### Database Table:

12/31/01 15:37:33      PROGRESS Report  
Database: amduus (PROGRESS)

=====  
===== Table: Article =====

Table Flags: "f" = frozen, "s" = a SQL table

Table Name	Dump Name	Table Field Index	Table Flags	Count	Count	Label
Article	article			6	3	Article

Description: Articles within a content management system  
Storage Area: Schema Area

===== FIELD SUMMARY =====  
===== Table: Article =====

Flags: <c>ase sensitive, <i>ndex component, <m>andatory, <v>iew component

Order	Field Name	Data Type	Flags	Format	Initial
10	ArticleID	char	i	x(8)	
20	ArticleTitle	char		x(8)	
30	ArticleText	char		x(8)	
40	StartDate	date	i	99/99/99	?
50	EndDate	date		99/99/99	?
60	CategoryID	char	i	x(8)	

Field Name	Label	Column Label
ArticleID	ArticleID	ArticleID
ArticleTitle	ArticleTitle	ArticleTitle
ArticleText	ArticleText	ArticleText
StartDate	StartDate	StartDate
EndDate	EndDate	EndDate
CategoryID	CategoryID	CategoryID

===== INDEX SUMMARY =====  
===== Table: Article =====

Flags: <p>primary, <u>nique, <w>ord, <a>bbreviated, <i>nactive, + asc, - desc

Flags	Index Name	Cnt	Field Name
	key1	1	+ StartDate
	key2	1	+ CategoryID
pu	pukey	1	+ ArticleID

```
** Index Name: key1
   Storage Area: Schema Area
** Index Name: key2
   Storage Area: Schema Area
** Index Name: pukey
   Storage Area: Schema Area
```

```
===== FIELD DETAILS =====
===== Table: Article =====
```

***Other interesting pages:***

Creating a Avantgo channel:

<http://ami.avantgo.com/support/developer/channels/>

Supported HTML tags:

[http://ami.avantgo.com/support/developer/supported\\_tags/bigmatrix.html](http://ami.avantgo.com/support/developer/supported_tags/bigmatrix.html)

Application Developer page:

<http://ami.avantgo.com/support/developer/apps/>

*About the author: Scott Auge is the founder of Amduus Information Works, Inc. He has been programming in the Progress environment since 1994. His works have included E-Business initiatives and focuses on web applications on UNIX platforms.*

[sauge@amduus.com](mailto:sauge@amduus.com)

Did you know?

Amduus Information Works, Inc. offers support/maintenance for the open source projects?

### **Management Article: Pricing Proposal**

*Written by Scott Auge [sauge@amduus.com](mailto:sauge@amduus.com)*

#### ***Type of contract***

Under this heading one would state whether the contract was fixed price or time and materials.

Fixed cost means that no matter what, the company will provide the customer a service for a given amount of work. Fixed cost contracts are good for well established processes and available applications. Examples are installing Progress and or installing a Progress application. One understands the steps involved intimately and can perform them in a measured way.

Time and materials is for that work which has not been explored already. Time and materials is good for application development or customization. This is because developing an application can have hidden gotcha's and a lot of politics involved. The customer may change their minds, algorithms may take longer to sort out than expected, etc.

#### ***Development cost by component completion***

Identify the components associated with the project and the costs associated with it. This can help identify large capital outlays in the beginning or the end.

#### ***Subcontractor costs***

If there are sub-contractors, and you are inclined to note that you are using sub-contractors (perhaps because of their previous work or reputation) – you can note them in this section. This section can be optional. Government contracting normally requires sub-contractor information.

***Procurement costs***

If one is making a turn key system for the customer, or taking on expenses to provide them a system., you may want to list these out. Such things as hardware, or software, or printing expenses can be listed here. Government contracting normally requires this information.

***Overhead costs***

Identification of the overhead costs may be required for some government contracts. Examples are temporary office space, staff, etc. One may especially include ownership costs such as positions that need to be hired (DB Admins, programmers, etc.), software costs (licensing, maintenance costs), and training costs.

***Warranty***

If there is a warranty, it should be noted here.

***Profit***

Government contracts usually require a profit clause. Private company contracts generally do not need this information.

***Total Project Cost***

A summary of cost items for the company to consider.

***Payment Schedule***

The payment schedule is outlined in this section. If payments are associated to milestones, then it should be noted, otherwise the exact dates and the amounts. The number of days a payment can be in arrears can be noted here also.

***Billing and Administration***

This section identifies where payments should be sent, and in what form (check, electronic commerce, etc.) Any additional information such as is an invoice is required to sent also, etc. Portions of this article based on:

E.M. Bennatan, "On Time, Within Budget – Software Project Management Practices and Techniques" ISBN 0-89435-408-6

*About the author: Scott Auge is the founder of Amduus Information Works, Inc. He has been programming in the Progress environment since 1994. His works have included E-Business initiatives and focuses on web applications on UNIX platforms.*

[sauge@amduus.com](mailto:sauge@amduus.com)

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**Community Announcements:**

A place to announce Progress User Groups, Open Source Exchanges, etc. No charge!

**Wonder where to find those Progress marketing articles?**

<http://www.progress.com/analyst/>

<http://www.progress.com/profiles/index.htm>

<http://www.progress.com/success/index.htm>

**Progress in the news sighting!**

*A major international car-rental company has switched from Oracle Corp. to Progress Software Corp. for its centralized reservation and back-office systems, saying Progress is handling the project more quickly and at lower cost than a contractor working with Oracle architecture.*

[http://computerworld.com/nlt/0%2C3590%2CNAV47\\_STO65971\\_NLTAM%2C00.html](http://computerworld.com/nlt/0%2C3590%2CNAV47_STO65971_NLTAM%2C00.html)

**Product Announcements:*****Survey Software***

Amduus Information Works, Inc. is creating survey software. This software can be used on a web site to query a population of people about their views and needs. The population could be internal to a company or external to yield a better understanding of the marketplace. Documentation for the application will be available at <http://www.amduus.com> for free download.

The software ships with source code for better adaptability to your company's application landscape and needs. The software was developed and designed on Linux with Progress Version 9 and Webspeed 3.1. The software can operate on AIX, Linux, Solaris, HP-UX and UNIXWare. The software will also run on Blue Diamond available for free from Amduus Information Works, Inc.

Customers and resellers are welcome to contact Scott Auge at [sauge@amduus.com](mailto:sauge@amduus.com) for more information. Street price is \$1,000 per machine without Progress licenses.

The software can be rented out at \$100.00 per survey per week of taking results.

**Publishing Information:**

Scott Auge publishes this document. I can be reached at [scott\\_auge@yahoo.com](mailto:scott_auge@yahoo.com).

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Thanks!