

## Software Services and Solutions



24-hour virtual day is the first step. The expertise to support you right through design, development and maintenance is another. At Avantel we have a well-designed methodology with the right mix of **onsite**, **offsite** and **offshore** resources to help you deliver on the dot.

In addition to round the clock expert backup, you will find our uniqueness stemming from the fact that we combine the flexibility and creativity of a start-up with the solutions strength of an entrenched player.

### Profile

- As a computing company, we provide integrated software solutions in the areas of telecom, wireless Internet and multimedia.
- As a communication company, we design, manufacture and market wireless, network access and satcom products that comply with the most recent technologies.

### Development Environment

- Ethernet 100 Mbps network with 100 nodes
- Sun Ultra Enterprise Servers
- Windows NT Servers
- Pentium Workstations
- Dedicated 64 Kbps point-to-point link to India
- Cross Compilers
- Evaluation Modules
- TCP/IP Protocol Stack
- SNMP Protocol Suite
- OS: RTOS, Windows NT, Sun Solaris, Linux

### Focus Areas

#### Wireless Internet

Avantel is working on development of wireless Internet solutions such as WAP enabled phones, micro browsers for Palm and RIM, Personalization. The applications developed will provide content to target users, specific to their profile and location.

#### Communication Software

We have developed communication software solutions for Access products and Network Management Systems (for performance, configuration, fault diagnosis and reports) by writing embedded solutions that address basic access technologies. Avantel now authors customized software for products such as DSL Modems, Interface Convertors, Add-Drop Multiplexers and Pair Gain Systems in line with ITU\_T / ETSI / ANSI standards.

- Protocols
  - Signaling – CAS, CCS, V 5.1 / V5.2 and SS7
  - Networking – TCP / IP, SNMP and H.323
- Processors
  - Microcontrollers, MPC 8xxx, DSPs

#### Multimedia

We create strategically guided creative electronic work that delivers the message in an engaging and interactive format, utilizing 2D / 3D animation and Virtual Reality (on SGI, Apple Mac and IBM platforms ) to deliver the message with the added dimensions of sound, video, and animation. We offer complete in-house creative and production capabilities, from concept development and script writing to programming, assembly and testing.

Our development services include:

- Multimedia Presentations
- Web Site Development
- Computer Based Training

#### People

Avantel is home to a dedicated team of software professionals who are committed to quality through excellence. Over 70 software professionals at Avantel have the expertise and exposure to the various platforms, languages and tools. With an average experience of 5 years the work force is highly empowered to deliver solutions and services within the specified time. Be it for wireless, communication or multimedia, our professionals are more than ready to provide integrated solutions at all times.

## Areas of Expertise

Wireless	WAP, WML, Nokia Toolkit, Phone.com UPSDK, Ericsson IDE, PALM, Codewarrior, RIM
Sun	Java, EJB, JSP, J2EE, Java Beans, Servlets, Applets
Microsoft	ASP, VB, Visual Studio, Visual Interdev
Databases	Oracle, Sybase, SQL Server, Access
Analysis & Design	SSAD, OOAD, UML, Booch, Rumbaugh, OMT, CASE Tools
Middleware	WebLogic, WebSphere, CORBA, RMI, MTS, COM/DCOM
Web Servers	IIS, Apache, iPlanet
Rational	Rational Rose, Requisite Pro, Test Studio, Clear Quest, SoDA
Testing,SQA	Rational, WinRunner, Silk, WebLoad
Others	XML, XrML, HTML, HDML, C++, C, JRun IDE, Symantec Visual Cafe

## Palm Micro Browser

A Micro browser was developed on Palm OS 3.5 that dynamically generates the UI upon receiving the response from the server using HTTP connection. The server fetches content from Internet and converts into browser understandable XML format. This browser implements a 128-bit encryption for data transfer between server and client, and has features like certificate management, session & cookie support, history & cache support and scripting engine to support client (Palm) validations.

## RIM - Micro Browser

RIM micro browser under development uses XML content and provides an interface between the RIM device and web server, dynamic user interface for displaying the XML content with 128 bit encryption / decryption of the data, maintaining user sessions, generating certificates and building a communication library.

## Personalization

Personalization system under development uses Java, JESS and XML for data transfer between various components. Format conversion (XML to HTML / WML) is achieved through XSL.

## Clients

Our esteemed clients include Nisus Inc. MA, Jotorok, RI, Williams Consulting Group, IL, Capacity Web, IL, Sharper Logics Inc. GA, Qualcomm Group, CA. Avantel believes in building long-term relationships with its valuable clients and is committed to provide excellent service and support to help establish a win-win situation.

## Business Models

Avantel's primary objective is to add and create value for clients. This is achieved by offering clients a flexible combination of **onsite**, **offsite**, **offshore** delivery models that ensure a virtual 24-hour workday.

## Offsite

Avantel's offsite development center in Boston Metro, US is the hub of all software activities capable of architecting and developing complete software solutions. In addition to being close to the customer, the offsite center backs the onsite professionals and supports the development activities at the offshore center. The offsite experts in concert with offshore counterparts make possible a qualitative end product through collaborative skill sharing across the time zones.

## Offshore

Avantel's offshore development center in Hyderabad, India has professional software engineers following the industry standard practices to realize the design specifications. The development teams in India have well equipped state-of-the-art infrastructure to support offsite team handling analysis, design and implementation in Boston, US. Additionally, to ensure the quality, the lead offsite architects in Boston, US perform exhaustive quality sequences before approval of the components for integration.

## Onsite

Avantel's software professionals, apart from planning, analyzing and designing effective computing solutions, can be called upon to provide onsite turn around solutions within the given framework. Based on the needs of the client, the design, development and test teams are deployed within a short time at the client's locations. Experts at Avantel ensure that best of breed computing practices are maintained by continuously monitoring the deployed professionals.

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### Regd. & Corporate Office

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### Production Unit

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