Network Backbone Upgrade

April 24, 2001
Network Backbone Upgrade  
Request for Proposal Number #SH042401  
April 24, 2001

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This Request for Proposal (RFP) has been posted on Procurement Services web site for your convenience. Addenda and attachments are posted if issued. It is the firm’s responsibility to ensure that the entire RFP package has been reviewed prior to the firm’s submittal of a proposal. We encourage you to check the web site frequently for any changes prior to the submittal date. To receive a hard copy of the RFP or addenda (which will be identical to those posted on the web site unless otherwise noted), contact Becky Sims, Contracts Administrator, at 804-924-4530 or email pur-rfp@virginia.edu.

For additional public posting information consult Procurement Services web site at http://www.virginia.edu/procurement_new/publicpostings/rgf/RFP.htm For questions about the content of the RFP, contact the buyer listed in Section VI, Information about this RFP.

I. Overview of the RFP Process

The Rector and Visitors of the University of Virginia (University), a Virginia public corporation, seeks an experienced firm to provide an upgrade to its network backbone. This RFP is part of a competitive procurement process which helps to serve the University's best interests. It also provides firms with a fair opportunity for their services to be considered. The process of competitive negotiation being used in this case should not be confused with the different process of competitive sealed bidding. The latter process is usually used where the goods or services being procured can be described precisely and price is generally the determinative factor. With competitive negotiation, however, price is not required to be the determinative factor, although it may be, and the University has the flexibility it needs to negotiate with firms to arrive at a mutually agreeable relationship.

For ease of reference, each firm receiving this RFP is referred to as a "firm" and the firm selected to provide services for the University is referred to as the "Selected Firm." This RFP states the instructions for submitting proposals, the procedure and criteria by which a firm may be selected, and the contractual terms by which the University proposes to govern the
relationship between it and the Selected Firm.

It is the policy of the Commonwealth of Virginia and the University of Virginia to contribute to the establishment, preservation, and strengthening of small businesses and businesses owned by women and minorities, and to encourage their participation in State procurement activities. The Commonwealth and the University encourage firms to provide for the participation of small businesses and businesses owned by women and minorities through partnerships, joint ventures, subcontracts, or other contractual opportunities.

II. Background Discussion and Goals of the University

When Thomas Jefferson founded the University in 1819, he intended it to be nothing less than a world-class institution of higher learning. Jefferson’s spirit lives on – not only in the Rotunda and Academical Village he designed, and which remain treasures of American architecture, but in the University’s standing as a leader in education, research, and community service.

The nearly 20,000 students attending the University work within a true meritocracy and live by an Honor Code unique among American universities. Each student is exposed to the widest spectrum of disciplines – from arts and athletics to humanities and technology. Our students also enjoy a unique connection to the world beyond college through the University’s outstanding professional training, exemplified by its nationally ranked schools of Law, Business, and Medicine. The University as a whole has had a consistently high ranking not only among public schools, where it usually heads the list, but among all American universities, public and private.

Over 9,700 University faculty and staff are committed to serving both the local and national community. The University makes a real difference in the world, through its invaluable research, a hospital ranked among the nation’s finest, and graduates who have consistently been among
the forefront of our nation’s shapers. At the University, our bright future is the direct result of our great history.

A. Network Background Information

The University's existing fiber optic and copper physical infrastructures will be reused for this project. The fiber optic infrastructure consists of a combination of single-mode and dual-window fiber distributed data interface (FDDI)-grade multi-mode fiber optic cables running to all University buildings. These optical cables have been installed directly from each building to one of approximately six Core Switching Locations strategically placed around the Grounds. The switching hub locations are interconnected with physically redundant spans of single-mode fiber optic cable. Cable plant within buildings is based on two four-pair Category-5 cables to every network outlet location. Lucent 1061 and 2061 cable, rated at Level 6, is used within buildings.

B. Existing Wiring Closet Electronics

The electronics presently installed in wiring closets are a combination of older shared Ethernet hubs and newer Ethernet switches. The University is well into the first year of an approximately three-year cycle to replace the old hubs with new Ethernet switches. Priority for upgrades is based on wiring work and traffic levels inside buildings.

1. Shared Ethernet Hubs

The University uses the Bay Networks 2813SA series of managed stackable hubs in its wiring closets. These hubs stack to place up to 80 users on a single shared 10 Mbps Ethernet. The integrated management portions of the hubs provide facilities to observe traffic levels and control individual ports.

2. Switched Ethernet

Newer and upgraded wiring closets are built using Nortel Networks 450T 10/100 Ethernet switches. The stack modules interconnect the units of the stack at multi-gigabit speeds to form a true high-density Ethernet switch. The
450T switches also provide hardware support for multicast traffic.

The University is in the process of upgrading older wiring closets from the 2813SA technology to stacks of 450T switches. For the purposes of responding to this RFP, firms should assume that the new backbone equipment will only interface to stacks of Nortel Networks 450T switches via fiber. Furthermore, firms should assume that all 450T switch stacks will be upgraded to include a single Nortel Networks Business Policy Switch. The addition of a Business Policy Switch to each stack upgrades the QoS and policy management capabilities of all of the switches in the stack.

C. Existing Network Backbone

The primary University Network (UVANET) backbone is a redundant partial mesh of 622 megabits per second (Mbps) Optical Carrier-12 (OC-12) Asynchronous Transfer Mode (ATM) circuits operating over single-mode fiber optic cable interconnecting the Core Switching Locations. The partial mesh topology provides more capacity than a simple ring since heavy traffic areas are able to bypass portions of the ring by flowing over other links in the mesh. The OC-12 links are directly connected to Cisco Systems Lightstream 1010 ATM switches. Synchronous Optical NETwork (SONET) multiplexors are not used to interconnect the ATM switches since a higher level of redundancy is achieved through the mesh topology. Other ports on the Cisco 1010 ATM switches are used to interconnect Cisco 7507 packet routers and Cisco 5000 and Cisco 5509 LAN switches. The hubs and switches in wiring closets are connected to the network backbone using fiber Ethernet and are connected either to the 5000 or 5509 LAN switches or directly to ports on the 7507 routers. These wiring closet to backbone links are operated at either 10 or 100 Mbps depending on the traffic generated by the building. The secondary UVANET backbone is an FDDI ring that interconnects all of the Cisco 7507 routers. The FDDI ring is only used when significant portions of the main backbone have problems. There are no T1 lines in the main
network backbone although a few of these circuits are used to connect off-Grounds low-volume buildings.

The network uses Cisco's EIGRP routing protocol to handle on-campus Internet Protocol (IP) routing. Other protocols such as Internetwork Packet eXchange (IPX) and Appletalk are routed using their native routing protocols. Systems Network Architecture (SNA) traffic is bridged between Local Area Network (LAN) segments and tunneled within IP using Cisco’s SNA tunneling technology. Emulated LANs (ELANS) are implemented in the ATM network core and through the LAN switches using the LAN Emulation (LANE) protocol. Interconnection between emulated LANs is via the 7507 routers. The University's main Internet and Internet2 links are implemented via an Optical Carrier-3 (OC-3) ATM link attached to a Cisco Lightstream 1010 ATM switch. A DS3 backup Internet connection is implemented via a High Speed Serial Interface (HSSI) interface on a Cisco 7507 router.

D. Goals of the University

The University seeks a qualified firm to supply the switching electronics needed to migrate the existing campus backbone from its present OC-12 ATM LANE configuration to the next generation network based on Layer-3 switching and gigabit Ethernet. The major goals of the project include, but are not necessarily limited to, the following items:

1. The main backbone links between Core Switching Centers are to be based on 10 Gigabit per second (Gbps) Ethernet links operating over single-mode fiber optic cable.

2. The primary packet switching path in the Layer-3 switching electronics specified for the Core Switching Centers is to be implemented in hardware. This requirement can typically be met with a crossbar or other form of physical switching system. The backplane slots in the switch will have sufficient capacity to operate the 10 Gbps Ethernet backbone links.
3. Network QoS and support for scalable Virtual Local Area Networks (VLANs) is an important part of the planned network architecture.

4. Switching for IP version 4 and IP version 6 will be implemented in hardware. While the primary network protocol is IP, Novell's IPX, Apple's Appletalk, and IBM's SNA protocols are all still heavily used at the University. The overall network architecture must also provide quality support for these protocols.

5. The equipment selected for this project should have a useful technology lifespan of three to five years. The projected physical lifespan of the equipment should be significantly longer.

In support of its mission and in an effort to maintain the highest quality services for its customers, the University seeks an experienced firm to provide an upgrade to its network backbone.

III. Scope of Goods and Services

It is the University's intent to enter into an Agreement with the Selected Firm for an upgrade to its network backbone to include those goods and services necessary to help the University achieve its goals as outlined in this RFP (the “Goods and Services”). In order to achieve this goal the Selected Firm may be requested to provide those goods and services outlined in this section.

The University has elected to migrate the network backbone from ATM and LAN Emulation to Gigabit Ethernet technology and Layer-3 switching. New core switching electronics to be provided by the Selected Firm are needed to implement this transition. There is also a significant probability that new network management software will also be needed to properly manage components of the new network core and switches in the wiring closets. The Selected Firm will be the University’s primary network backbone technology provider for the three to five year useful lifespan of the new equipment. The University requires a close working relationship with the Selected Firm. This relationship is a critical component of the University’s
overall goal. The University network is a complex and ever-changing environment and direct access to the technical resources of the Selected Firm is a critical success component.

Expected access to Selected Firm resources includes, but is not necessarily limited to:

- Periodic non-disclosure level briefings on products and technologies of interest to the University. These briefings should be both: proactively initiated by the Selected Firm; and available upon request by the University.

- A Project Manager with sound technical expertise who will understand the needs of the University and will work with the central University-wide networking departments in the Department of Information Technology and Communications (ITC) and the Health System Computing Services (HS/CS), as appropriate, to suggest alternatives and recommend solutions.

- Participation by the University, when appropriate, in early deployment trials of equipment and software solutions.

Any Agreement resulting from this RFP will cover the Selected Firm’s entire product line including any necessary related services. As the University network evolves and begins to carry more and more critical data and services, a motivation to use additional wiring closets and other components from the Selected Firm may appear. Proposals from equipment distributors can meet the University’s relationship goals if they, possibly in combination with the equipment manufacturer, show a mechanism to meet the University’s objectives.

IV. Basis of Selection

A. The University will evaluate proposals and, if a firm is to be selected, select the firm on the basis of:

1. The firm's plan to assist the University to meet its goals for an upgrade to its network backbone as discussed in Section II, Background Discussion and Goals of the University, and Section III, Scope of Goods and Services;
2. The firm's relevant experience, qualifications and success in providing the goods and services outlined in this RFP;

3. The firm's references from institutions of higher education, teaching hospitals, and clients which are comparable to the University;

4. The firm's financial proposal including but not limited to discounts, service charges and other charges;

5. The quality of the proposal, specifically, responsiveness to requirements and adequacy of information provided including the firm’s responses to Section V, Contents of the Proposal;

6. The contractual terms which would govern the relationship between the University and the Selected Firm; and

7. Any other factors relevant to the firm's capacity and willingness to satisfy the University.

V. Contents of the Proposal

Proposals should include information outlined in this section. Copies of proposals must be sent to the Issuing Office, Procurement Services, Carruthers Hall, and not to any other office or department whatsoever at the University of Virginia.

Firms should respond to the specific issues listed below in as much detail as necessary to ensure that the University fully understands the response. Firms may answer questions in full in the written response, or a summary paragraph can be inserted followed by standard product materials documentation attached as an appendix.

A. Technical Factors

1. Overview of Switching Components

   Specify the switching electronics that will be used in the in the Core Switching Locations. This section should be a general overview of the firm’s proposed solution and include a reference to detailed product information that is then
The overview should, at a minimum, include information on:

a. The general architecture of the Layer-3 switch;
b. Protocols supported in hardware;
c. VLAN trunking support;
d. Forwarding throughput – both aggregate and per-port;
e. Passive or active backplane;
f. Whether the switch can be configured with redundant internal power supplies with multiple power cords;
g. Port density of 100 Mbps fiber interfaces;
h. Port density for 1,000 Mbps fiber interfaces;
i. Port density for 1000Base-T ports; and
j. The method of interconnect between modules that use different backplanes within the same chassis.

2. Backbone Link Capacity

Specify the capacity of the proposed backbone links. If less than 10 Gbps, describe the firm’s plan to upgrade the University’s equipment in the future to 10 Gbps links. Be explicit when describing the per-slot capacity of the switch. Discuss the current state of the standards process for 10 Gbps Ethernet.

3. Layer-3 QoS

Describe the capability of the switch to use the IP Precedence bits in the Type-of-Service (ToS) field of the IP packet header. This description should include (a) the number of hardware queues available, (b) a description of the queuing strategies available for use, and (c) capabilities of the switch to remap the ToS bits based on higher level protocol content in the packet headers.

4. Layer-2 QoS

Describe the switch’s capability to support 802.11Q and 802.11p and its ability to map 802.11p tags to IP Precedence.
5. Non-switched Protocol Support
Describe, in excruciating detail, the plan to support protocols such as AppleTalk and SNA that are not handled directly by the proposed switch. Plans to reuse existing routers and switches may be acceptable but must be well documented.

6. Traffic Shaping Support
Describe any traffic shaping capabilities provided by the proposed switching equipment.

7. Routing Support
Identify the list of supported unicast and multicast routing protocols. Provide information on any available route filtering capabilities.

8. Filtering Capability
Describe the packet filtering capabilities of the switch. Explain how the switch’s forwarding rate degrades with an increase in the number or complexity of the filters.

9. Enterprise Policy Management Support
Describe available tools for enterprise QoS policy management using the switches proposed for the network core and the University’s wiring closet switch stacks consisting of Nortel 450T switches with a single Nortel Business Policy Switch.

10. Security Features
A description of any integrated security features or available options. For example, this would include Integrated Intrusion Detection (IDS) signature generation but not external IDS probes.

11. Port Mirroring
Describe any port mirroring capabilities of the proposed switches.

12. Network Management
Recommend tools for managing the network and collecting statistics.
13. **Line Power**

Specify any equipment requiring other than standard 110 volt power. Specify the type of power supply redundancy for all proposed equipment.

**B. Relationship Factors**

1. **Manufacturer Account Team**

   Describe the relationship that the University will have with the equipment manufacturer. Specify how the University will receive direct manufacturer sales support, technical support, and non-disclosure-type briefings as needed.

2. **Plan for Close Working Relationship**

   Discuss the firm’s plan to achieve a close working relationship with the University which is consistent with the University’s goals and objectives described in this RFP.

3. **Additional Discounts and/or Donations**

   Describe the firm’s plan for any special one-time discounts or donations of equipment to support the initiatives of the University’s central networking groups in ITC and HS/CS. Any planned donations of training should also be specified here.

**C. Operations**

1. **Describe how the firm plans to provide an upgrade to the University’s network backbone which is the primary goal of this RFP.**

2. **Describe how the firm will work with the University to ensure a close working relationship.**

**D. Firm Information, Personnel, References**
1. Provide a brief history of the firm and its experience in providing similar network backbone upgrades. Reference site information where similar equipment is in use.

2. Provide information on those individuals assigned to work with the University including a description of their experience in providing similar network backbone upgrades.

3. Provide a list of all of the firm's clients comparable to the University indicating the length of service of each account. The University may contact and/or visit any of these accounts.

4. Provide a list of all clients lost within the last three years which includes:
   a. A contact name and telephone number
   b. Length of service at the account
   c. Reason for the loss

5. Provide a copy of the firm's most recent audited financial statements.

E. Financial Proposal

1. Describe the fees the firm will charge for the Goods and Services. (Firms are not expected to produce an actual network design as part of their response to this RFP. The equipment and software list for the network backbone upgrade purchase will be developed during the negotiation process.) The University will evaluate the firm’s financial proposal based on the answers to these sections:
   a. Standard Discount
      Specify the discount off of list price that the University will receive on orders placed via any Agreement resulting from this RFP. Firms may specify different discount levels for different classes of equipment if necessary. Firms must clearly specify the price list against which discounts are proposed to be taken.

   b. Specific Configuration
Provide pricing for ten Layer-3 core switching center switches. Each switch should be configured with three backbone links, 8 Gigabit Ethernet modules with single-mode fiber GBICs, 32 100BaseFx fiber ports, redundant power, and all of the software and modules needed to implement the protocols and QoS services previously specified. All Ethernet modules must be capable of VLAN trunking.

c. Maintenance

Provide pricing for hardware and software maintenance for the specific configuration described in item 1b above. The University always maintains a local spare parts inventory. This generally means that the most effective service contract typically provides one to two day cycle for swapping failed modules.

F. Contractual Arrangements

1. Provide the University with any form or contract the University may be requested to sign.

2. State the firm's acceptance of Attachment 1, Mandatory Contractual Provisions.

3. State the firm's acceptance, with any proposed modifications, of Attachment 2, Preferred Contractual Provisions.

G. Site Visits

It may be necessary or desirable for the University's evaluation team of less than ten people to travel to a site chosen jointly by the firm and the University to view its operation. Each firm will indicate whether it will reimburse the University for the reasonable and actual expenses (travel, lodging, meals, etc.) incurred by the University for its travel.
H. Minority Business

Specify whether the firm is a minority firm. The Commonwealth of Virginia’s definition of a minority firm is a firm that is at least 51% owned, operated, and controlled by a minority; or in cases of a publicly-owned business, at least 51% of the stock must be owned by a minority. Such minorities include, but are not limited to, African Americans, Hispanic Americans, Asian Americans, Native Americans, Eskimos, and Aleuts. If the firm is not a minority firm, describe the firm’s partnering relationships with minority firms and how it plans to support the University’s goal to award 5% of its business to minority firms.

I. Other Information

Provide any other information which the University should consider in evaluating the firm's proposal.

VI. Information about this RFP

A. Procurement Schedule

Here is a brief schedule for this procurement, specifying the important dates and milestones:

- Issue Date of RFP: 04/24/01
- Preproposal Conference: 05/04/01
- Deadline for Receipt of Proposals: 05/21/01
- Oral Presentations/Negotiations: 05/31/01 – 06/04/01
- Contract Award: 06/22/01

B. Issuance of RFP and Questions

The Issuing Office for this RFP is:
Procurement Services
University of Virginia
1001 North Emmet Street
P.O. Box 400202
Charlottesville, Virginia 22904-4202
Attention: Steve Heldreth, Senior Purchasing Analyst  
Telephone: (804) 924-4217  
Fax: (804) 982-2690  
TDD: (804) 982-HEAR  
Email: heldreth@virginia.edu

Any questions concerning this RFP will be directed to Steve Heldreth as listed above and not to any other person at the University. The University will determine whether any addenda should be issued as a result of any question or other matters raised.

C. Preproposal Conference
A conference for firms receiving this RFP will be held on Friday, May 4, 2001 at 1:30 p.m. EDT in Carruthers Hall Conference Room #6, Charlottesville, Virginia (map viewed at this web site: [http://www.virginia.edu/Map/](http://www.virginia.edu/Map/)). Attendance at this conference is advised if your firm wishes to raise any questions in connection with this RFP. The University intends to present general information which may be helpful in the preparation of proposals and to offer firms the opportunity to ask questions concerning this RFP. No firm may have more than two representatives present at the Preproposal Conference.

Firms planning to attend the Preproposal Conference should notify Becky Sims, (804) 924-1346, no later than 4:00 p.m. p.m. EST on Wednesday, May 2, 2001 of the names and titles of the individuals who will attend.

D. Proposal Deadline
All proposals must be received at the Issuing Office by 3:00 p.m., Monday, May 21, 2001. Ten copies of each proposal must be provided in individual, bound volumes.
E. Oral Presentations and Negotiations

An oral presentation by two or more firms may be required after written proposals are received by the University. If the University requires such a presentation, the Issuing Office will schedule a time and place. Each firm should be prepared to discuss and substantiate any of the areas of the proposal it submitted, its own qualifications for the services required and any other area of interest relative to its proposal. Oral presentations and negotiations are tentatively scheduled for May 31, 2001; June 1, 2001; and June 4, 2001.

F. Communications Between the University and the firms Regarding This Request for Proposal

Informal Communications

From the date of receipt of this Request for Proposal by each firm until a binding contractual agreement exists with the Selected Firm and all other firms have been notified, or when the University rejects all proposals, informal communications regarding this procurement will cease. Informal communications will include but not be limited to:

1. Requests from the firms to any department at the University, with the exception of Procurement Services for information, comments, speculation, etc.;

2. Requests from any department at the University, or any employee of the University, with the exception of Procurement Services for information, comments, speculation, etc.

Formal Communications

From the date of receipt of this Request for Proposal by each firm until a binding contractual agreement exists with the Selected Firm and all other firms have been notified, or when the University rejects all proposals, all communications between the University and the firms will be formal, or as provided for in this Request for Proposal,
or as requested by Procurement Services. Formal communications will include but not be limited to:

1. Preproposal Conference
2. Oral presentations
3. Site visits, Interviews, etc.

Any failure to adhere to the provisions set forth in Informal Communications and the Formal Communications sections above may result in the rejection of any firm's proposal or cancellation of this RFP.

G. Formation of the Agreement with the Selected Firm

All proposals received will be carefully evaluated by the University. The University will then select two or more firms deemed to be fully qualified and best suited among those submitting proposals, on the basis of evaluation criteria described in this RFP. The University will then conduct negotiations with each of these firms. After negotiations have been conducted, the University will select the firm which, in its opinion, has made the best proposal. The University will award the agreement to the Selected Firm by either of these methods:

1. Accept the proposal as written by issuing a written notice to the Selected Firm which refers to this RFP and accepts all or part of the proposal submitted in response to it and/or any addenda submitted during the negotiation process; or
2. Execute a mutually satisfactory written agreement based on this RFP, the proposal submitted, and the negotiations concerning these.
3. If the University determines in writing and in its sole discretion that only one firm is fully qualified, or that one firm is clearly more highly qualified than the others under consideration, it may decide to negotiate and award an agreement to that firm.

Because the University may use alternative (1) above, each firm must include in its written proposal all requirements, terms or conditions it may have, and
should not assume that an opportunity will exist to add such matters after the proposal is submitted.

Firms should also note that, as described in Section H, Provisions Deemed Included in the Proposal, certain matters will automatically be deemed part of the proposal.

H. Provisions Deemed Included in the Proposal

The University will consider each proposal to include not only the matters expressly stated in the proposal as requested in Section V, Contents of the Proposal, but also other provisions which consist of two different types: those which are "mandatory" and cannot be changed by a firm in its proposal; and those which are "preferred" by the University, but which a firm may wish to alter by expressly and specifically so stating in its proposal.

The University includes mandatory provisions so that all proposals will be governed by the same basic contractual terms. The University encourages any firm which feels that a mandatory provision is unreasonable to contact the University before proposals are due so the University can consider amending the provision. The University includes preferred provisions so that any difference between the firm and the University's preferred contractual provisions can be considered during the University's evaluation of proposals.

1. Mandatory Provisions

Each proposal received by the University in response to this RFP will automatically be deemed to include the firm's agreement to the provisions of (a) and (b) below. Although such provisions will govern the firm's proposals as submitted, the University and one or more firms may later mutually agree to amend such provisions, such as when additional time is needed to consider proposals, or when contractual negotiations or performance indicate that such amendments are appropriate.
a. The proposal constitutes an offer by the firm which will remain open and 
irrevocable for a period of 120 days from the deadline for submitting 
proposals as stated in Section C, Proposal Deadline.

b. If selected by the University, the provisions governing the firm's 
performance will include all the provisions of Attachment 1, Mandatory 
Contractual Provisions.


Unless a firm expressly and specifically provides otherwise in its written 
proposal, the proposal received by the University in response to this RFP will 
automatically be deemed to include the firm's agreement to these provisions:

a. The firm consents to the University contacting and obtaining any 
information relevant to this RFP from the references and others 
identified by the firm in its proposal, as well as from any other persons, 
firms, or organizations which the University wishes to contact; and

b. If selected by the University, the provisions governing the firm's 
performance will include all the provisions of Attachment 2, Preferred 
Contractual Provisions.

I. Rejection of Proposals

The University reserves the right to reject any or all proposals received. 
Nonacceptance of a firm's proposal will mean that one or more proposals were deemed 
more advantageous to the University or that all proposals were rejected. Firms whose proposals are not accepted will be notified after a binding contractual agreement 
between the University and the Selected Firm exists, or when the University rejects all proposals.

J. Virginia Freedom of Information Act
Except as provided below, once an award is announced, all proposals submitted in response to this RFP will be open to the inspection of any interested person, firm or corporation, in accordance with the Virginia Freedom of Information Act. Trade secrets or proprietary information submitted by firms as part of its proposal will not be subject to public disclosure under the Virginia Freedom of Information Act; however, the firm must invoke the protections of this section prior to or upon submission of its proposal, and must identify the specific data or other materials to be protected and state the reasons why protection is necessary. Firms may not request that its entire proposal be treated as proprietary information.
Mandatory Contractual Provisions

A. Nondiscrimination
During the performance of this Agreement, the Selected Firm will comply with the contract provisions contained in Section 11-51 (1) & (2) of the Code of Virginia or any successor provisions which may be applicable to this Agreement.

B. Conflict of Interests
The Selected Firm represents to the University that its entering into this Agreement with the University does not entail any violation of the Virginia State and Local Government Conflict of Interests Act.

C. Assignment
Neither party to this Agreement will have the right to assign this Agreement in whole or in part without the prior written consent of the other.

D. Amendments
No amendment of this Agreement will be effective unless it is reduced to writing and executed by the University's Director of Procurement Services and by the individual signing the Selected Firm's proposal or by other individuals named by either party as specified in Section E, Notices below. If the Selected Firm deviates from the terms of this Agreement without a written amendment, it does so at its own risk.

E. Notices
All notices will be given in writing and deemed given when delivered to, or deposited in the U.S. Postal Service mail, certified mail return receipt requested, and addressed to the other party as shown below.
If to the University:
Eric N. Denby, C. P. M.
Director of Procurement Services
Carruthers Hall
University of Virginia
1001 North Emmet Street
P.O. Box 400202
Charlottesville, Virginia 22904-4202

If to the Selected Firm:
The person signing the Selected Firm's proposal in response to the University's RFP, at the
Selected Firm's address indicated in such proposal; or to such other person or address as either
may designate for itself in writing and provide to the other.

F. Independent Contractor
Selected Firm is not an employee of the University, but is engaged as an independent
contractor. The Selected Firm will indemnify and hold harmless the Commonwealth of Virginia,
the University, and its employees and agents, with respect to all withholding, Social Security,
unemployment compensation and all other taxes or amounts of any kind relating to the Selected
Firm's performance of this Agreement. Nothing in this Agreement will be construed as authority
for the Selected Firm to make commitments which will bind the University, or to otherwise act
on behalf of the University, except as the University may expressly authorize in writing.

G. Worker's Compensation and Employers Liability
The Selected Firm will comply with all federal or state laws and regulations pertaining to
Worker's Compensation Requirements for insured or self-insured programs.

H. Drug-Free Workplace
The Selected Firm, its agents and employees are prohibited, under the terms of this Agreement
and the Commonwealth of Virginia, Department of Personnel and Training Policy Number 1.02
executed by Governor Lawrence Douglas Wilder on July 1, 1991, from manufacturing,
distributing, dispensing, possessing, or using any unlawful or unauthorized drugs or alcohol while on University property.

During the performance of this Agreement, the Selected Firm agrees to 1) provide a drug-free workplace for the Selected Firm's employees; 2) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Selected Firm's workplace and specifying the actions that will be taken against employees for violations of such prohibition; 3) state in all solicitations or advertisements for employees placed by or on behalf of the Selected Firm that it maintains a drug-free workplace; and 4) include the provisions of the foregoing clauses in every subcontract or purchase order of over $10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific agreement awarded to a Selected Firm, the employees of whom are prohibited from engaging in the unlawful manufacturing, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the agreement.

I. Information Technology Access Act

In accordance with §§ 2.1-811 of the Code of Virginia, the following will apply to all information technology Agreements:

NON-VISUAL ACCESS TO TECHNOLOGY: All information technology (the "Technology") which is purchased or upgraded by the University will comply with the following non-visual access standards from the date of purchase or upgrade until the expiration of the Agreement:
• Effective, interactive control and use of the Technology will be readily achievable by non-visual means;
• Technology equipped for non-visual access will be compatible with information technology used by other individuals with whom any blind or visually impaired user of the Technology interacts;
• Non-visual access technology will be integrated into any networks used to share communications among employees, program participants or the public; and
• Technology for non-visual access will have the capability of providing equivalent access by non-visual means to telecommunications or other interconnected network services used by persons who are not blind or visually impaired.

Compliance with the foregoing non-visual access standards will not be required if the Director of Procurement Services, University of Virginia determines that 1) the Technology is not available with non-visual access because the essential elements of the Technology are visual and 2) non-visual equivalence is not available.

Installation of hardware, software, or peripheral devices used for non-visual access is not required when the Technology is being used exclusively by individuals who are not blind or visually impaired, but applications programs and underlying operating systems (including the format of the data) used for the manipulation and presentation of information will permit the installation and effective use of non-visual access software and peripheral devices.

If requested, the Agreement must provide a detailed explanation of how compliance with the foregoing non-visual access standards is achieved and a validation of concept demonstration.
Attachment 2
Preferred Contractual Provisions

A. Goods and Services
During the term of this Agreement, the Selected Firm will provide for the University the goods and services offered to the University by the firm in its proposal and/or any addenda to its proposal and as specified by the University when it selected the firm.

B. Term of Agreement
The term of this Agreement will be for two years, with an option for renewal by the University, if agreeable to the Selected Firm on the same terms and conditions, for two additional one-year terms. The Selected Firm and the University will mutually agree at least 180 days prior to each renewal option whether to renew the terms of the Agreement.

C. Contract Administrator
The University will identify a Contract Administrator for any Agreement which results from this RFP. The individual will be the point of contact at the University for day-to-day operations, but cannot approve amendments to the Agreement or price changes.

D. Waiver
No waiver of any right will be deemed a continuing waiver, and no failure on the part of either party to exercise wholly or in part any right will prevent a later exercise of such or any other right.

E. Indemnification
The Selected Firm will indemnify and hold harmless The Commonwealth of Virginia, The Rector and Visitors of the University of Virginia, and their agents, employees and officials from any and all costs, damage or loss, claims, liability, damages, expenses (including, without limitation, attorneys' fees and expenses) caused by or arising out of the performance or non performance
of the Agreement by the Selected Firm or its agents or subcontractors, including the provision of any services or products. The Selected Firm warrants that the products, goods and services provided the University may be used by the University without being in violation of any copyright, patent or similar property right or claim by others and will defend, indemnify and save the University (its employees and agents) from and against any such claim.

F. Governing Law
This Agreement will be governed in all respects by the laws of the Commonwealth of Virginia.

G. Termination
If the Selected Firm fails to provide quality services in a professional manner, solely as determined by the University, and, upon receipt of notice from the University, does not correct the deficiency, to the University's satisfaction within a reasonable period of time, not to exceed 30 calendar days unless otherwise agreed to by both parties, the University reserves the right to terminate this Agreement by giving written notice to the Selected Firm.

H. Non-Appropriation
Funding for any Agreement between the University and a Selected Firm is dependent at all times upon the appropriation of funds by the Virginia General Assembly and/or any other organization of the Commonwealth authorized to appropriate such funds. In the event that funding to support this Agreement is not appropriated, whether in whole or in part, then the Agreement may be terminated effective the last day for which appropriated funding is available.

I. Right of Audit
The University reserves the right to audit or cause to be audited the Selected Firm's books and accounts regarding the University's account at any time during the term of this Agreement and for five years thereafter.

J. Contractual Claims
This Agreement is subject to the University's policy on Contractual Claims which is provided as Attachment 3, Procedure for Resolution of Contractual Claims.

K. Insurance

Listed below is the insurance which the Selected Firm must maintain under any Agreement resulting from this RFP. Each Firm will propose insurance which meets or exceeds the needs of the University. No Agreement will be executed by the University until the Firm satisfies the insurance requirements of the University. The Selected Firm may be required to provide the University with a valid Certificate of Insurance before providing any goods or services to the University. The University reserves the right to approve any insurance proposed by the Selected Firm.

Commercial/Comprehensive General Liability:
The Selected Firm and any Subcontractor will maintain, at a minimum, a minimum Limit of Liability for bodily injury and property damage of $500,000 per person/occurrence, with coverage for:
Premises - Operations
Product - Completed Operations

Automobile Insurance
The Selected Firm and Subcontractor will provide a minimum Limit of Liability for bodily injury of $100,000/$300,000 per person/occurrence and property damage $100,000 per occurrence, with coverage for:
Owned and non-owned automobiles operated by their employees.

Additional Insured*
Additional Insured:

If the University requests to be named as an Additional Insured, the proper name is: "The Commonwealth of Virginia, and the Rector and Visitors of the University of Virginia, its officers, employees and agents."

L. Use of Agreement by Third Parties

If agreeable with the Selected Firm, these organizations may have access to any Agreement resulting from this RFP: 1) Any University related foundation, and 2) Any institution of higher education which is a member of the Virginia Association of State College and University Purchasing Professionals (VASCUPP). A current list of VASCUPP members can be found on Procurement Services web site at: http://www.virginia.edu/~pams/Links.htm, and 3) City of Charlottesville and County of Albemarle. The Selected Firm will respond promptly to a request from any of these organizations for access to the Agreement, but is NOT required to enter into an equivalent agreement with the organization. A Firm's willingness to provide this access to these organizations will not be a consideration in awarding this RFP. Although the organizations may have access to the Agreement, their entry into any equivalent agreement with the Selected Firm is strictly optional.

If an organization chooses to enter into an equivalent agreement, it will so notify the Selected Firm in writing, and will proceed to execute such an agreement. The University will have no responsibility whatsoever for payment of invoices rendered to the organization, resolution of problems, or administration of contractual claims. The Selected Firm, at the request of the University, will provide usage reports for all VASCUPP members accessing the Agreement. The University anticipates requiring such reports quarterly. The University's sole intent is to provide other organizations with access to the University's Agreements and to provide Selected Firms with opportunities to do business with other organizations. It is understood and agreed that the University is not responsible for the acts or omissions of any VASCUPP member, and will not be considered in default of the Agreement no matter the circumstances.

M. Favored Nations
The Selected Firm represents that the prices, terms, warranties, and benefits specified in its proposal are comparable to or better than the equivalent terms being offered by the firm to any present customer.

N. The University's Authorized Representatives
The only persons who are or will be authorized to speak or act for the University in any way with respect to this Agreement are those whose positions or names have been specifically designated in writing to Selected Firm by the University's Director of Procurement Services.

O. Purchasing Manual
This Agreement is subject to the provisions of the Commonwealth of Virginia "Purchasing Manual for Institutions of Higher Education and Their Vendors" and any subsequent revisions, which is available on Procurement Services website at: http://www.virginia.edu/~pams/Purman.htm

P. Copyrights
Unless expressly agreed to the contrary in writing, all documents, reports, writings, video images, photographs or papers of any nature prepared by the Selected Firm (or its subcontractors) in performing an Agreement will not be disclosed to any other person or entity without the written permission of the University, and the University will own all copyrights thereto.

Q. Minority Business Reporting
The Selected Firm will identify and fairly consider minority firms for subcontracting opportunities when qualified minority firms are available to perform a given task in performing for the University under the resulting Agreement. The Selected Firm will submit a quarterly minority business report to the University by the 15th of the month following each calendar quarter, specifically the months of April, July, October, and January. The Selected Firm will submit the quarterly minority business reports to:
Contracts Administrator
University of Virginia
The quarterly minority business reports will contain this information:

- Minority firms name, address and phone number with which the Selected Firm has contracted over the specified quarterly period.
- Contact person at the minority firm who has knowledge of the specified information.
- Type of goods and/or services provided over the specified period of time.
- Total amount paid to the minority firm as it relates to the University’s account.

R. Project Manager

The Selected Firm agrees to provide a named individual, (“Project Manager”) to implement, perform, and manage provision of all Goods and Services. The University must approve the appointment of the Project Manager prior to execution of any Agreement with the Selected Firm resulting from this RFP. The Project Manager will be the University’s primary contact, although the Project Manager will be assisted by other members of the Selected Firm’s staff in completing key activities.

In the event that the Project Manager or any other individual responsible for the University’s account, is no longer employed by the Selected Firm, is unavailable for any reason, or is performing in an unsatisfactory manner as determined by the University’s Contract Administrator, Selected Firm will propose a replacement for that individual within a reasonable time frame, so as not to significantly delay the provision of the Goods and Services to the University. The University reserves the right to approve the replacement, or to cancel the Agreement. If a proposed replacement is accepted by the University, the replacement will provide the Goods and Services at rates no higher than the rates of the original individual and in accordance with all terms and conditions specified in this Agreement.
Attachment 3

Procedure for Resolution of Contractual Claims

Section 11-69 of the Virginia Public Procurement Act requires contractors with the University to submit any claims, whether for money or other relief, in writing no later than 60 days after final payment, however, written notice of the contractors intention to file such a claim will have been given at the time of the occurrence or beginning of the work upon which the claim is based.

The University’s procedure for deciding such contractual claims is:

A. The Selected Firm must provide the written claim to:
   Assistant Director of Procurement Services
   University of Virginia
   1001 North Emmet Street
   P. O. Box 400202
   Charlottesville, Virginia  22904-4202

B. Although the Selected Firm may, if it chooses, attempt to resolve its claim by dealing with a University department other than the one stated in Section A above, the Selected Firm must submit any unresolved claim in writing no later than 60 days after final payment to the Assistant Director of Procurement Services if it wishes to pursue its claim.

C. Upon receiving the written claim, the Assistant Director of Procurement Services will review the written materials relating to the claim and decide whether to discuss the merits of the claim with the Selected Firm. If such discussion is to be held, the Assistant Director of Procurement Services will contact the Selected Firm and arrange such discussion. The manner of conducting such discussion will be as the Assistant Director and the Selected Firm mutually agree.
D. The Assistant Director of Procurement Services will mail his or her decision to the Selected Firm within 60 days after receipt of the claim. The decision will state the reason for granting or denying the claim.

E. The Selected Firm may appeal the decision to:

   Director of Procurement Services  
   University of Virginia  
   Carruthers Hall  
   1001 North Emmet Street  
   P.O. Box 400202  
   Charlottesville, Virginia  22904-4202

   by providing a written statement explaining the basis of the appeal, within 15 days after the Selected Firm's receipt of the decision.

F. Upon receiving the written appeal, the Director of Procurement Services will review the written materials relating to the claim and decide whether to discuss the merits of the claim with the Selected Firm. If such discussion is to be held, the Director of Procurement Services will contact the Selected Firm and arrange such discussion. The manner of conducting such discussion will be as the Director of Procurement Services and the Selected Firm mutually agree.

G. The Director of Procurement Services will mail his or her decision to the Selected Firm within 60 days after the Director of Procurement Services receipt of the appeal. The decision will state the reasons for granting or denying the appeal.