Virginia Tech Security Questions for Technology-Based Procurements

Name of Technology

Name of Company

Contact Information

Printed Name of Person Completing Questionnaire

Signature of Person Completing Questionnaire

If purchased, Virginia Tech reserves the right to conduct an IT security assessment on the product(s), system(s) and/or service(s) once delivered to validate the answers to the questions below. If evaluation copies or instances are available for testing, they should be provided to the IT Security Office prior to purchase. Please contact the IT Security Office at itso@vt.edu.

Documentation		Internal Use
Do you have a completed Shared Assessments full SIG questionnaire?		
Have you undergone a SAS 70 or SSAE 16 audit?		
Do you have a documented change management process?		
Do you have a formal Incident Response plan?		
Application/Service/Data Security		
Describe the permissions granted to each role in your application/system?		

Describe the level to which the roles and permissions can be customized by Virginia Tech.		
What specific encryption algorithms are employed for your product(s), system(s) and/or service(s)?		
Is all sensitive data (i.e. Social Security Numbers, Credit Card Numbers, Health Information, etc.) encrypted in transit and at rest? If not, please explain? (NOTE: Please see the Sensitive Information page at http://www.security.vt.edu/sensitiveinfo.html for specifics).		
Will Virginia Tech data be encrypted at rest? (Whole Disk Encryption, DB encryption, column level encryption inside a DB)		
Describe the mechanism for transferring data from Virginia Tech to your organization. Are these transfers logged?		
Is login information such as user name and password encrypted during transmission from the client to the server? NOTE: Base-64 encoding is not acceptable.		
Are passwords hashed, so they cannot be decrypted? (SHA-1, SHA-256, MD5, …) Please describe.		
Does your product(s), system(s) and/or service(s) prevent the use of shared credentials or accounts including administrative accounts?		
Describe how your product(s), system(s) and/or service(s) authenticate and authorize users?		
Does your product(s) and/or system(s) facilitate compliance with Federal and State laws, such as FERPA, HIPPA and PCI?		

Is all access, including administrative accounts, controlled and logged (i.e. firewalls, file system permissions, ACLs, database table permissions, packet logs, etc.)? If not, please explain.		
Will Virginia Tech data be used in test or development environments?		
Does your company own the physical data center where Virginia Tech's data will reside?		
Do any of your servers reside in a co-located data center?		
If you are using a co-located data center, does this data center operate outside of the United States?		
If this co-located data center operates outside of the United States, will any of Virginia Tech's data ever leave the United States?		
If Virginia Tech data will leave the United States, please list all countries where it will be stored.		
Is there a contract in place to prevent data from leaving the United States?		
If you are using a co-located data center, please describe how networks and systems are separated.		
Are intrusion detection technologies and firewalls utilized on the hosted system(s)?		
Describe how your facility is physically secured?		
Third Parties		
Will Virginia Tech data be shared with or hosted by any third parties?		
If so, list all 3rd parties that will host or have access to Virginia Tech data.		
Do you perform security assessments of third party companies?		
If you do assess third parties, please describe assessment methodology.		
How often do you reassess third party companies?		

Briefly explain why each of these third parties will have access to Virginia Tech data.		
Have you experienced a breach?		
Password/Passphrase Management		
Can you enforce password / passphrase aging requirements?		
Can you enforce password / passphrase complexity requirements?		
Are user account passwords / passphrase visible in administration modules?		
Are stored user account passwords / passphrases hashed?		
What algorithm is used to hash passwords?		
Vulnerability Assessment/Mitigation		
The OWASP 10 identifies the most critical web application security flaws. How does your organization address and mitigate the common application risk identified by the OWASP Top 10. Information about the OWASP Top Ten can be found at https://www.owasp.org/index.php/OWASP_Top_Ten_Project.		
Are your applications scanned for vulnerabilities by a qualified 3rd party?		
Are your systems scanned for vulnerabilities by a qualified 3rd party?		
Are your applications scanned for vulnerabilities prior to new releases?		
What application and operating system vulnerability scanning companies do you use?		
How often are operating systems and applications scanned?		

Are updates to your product released on a regular schedule?		
How are critical security patches applied to your systems and applications?		
Will we be notified of major changes to your environment that could impact our security posture?		
Disaster Recovery/Backups		
Do you have a disaster recovery plan?		
Are components of your disaster recovery plan located outside of the United States?		
When was the last time you tested your disaster recovery plan?		
Are you performing backups?		
What type of media is used for backups?		
How long are these backups kept?		
How is backup media destroyed?		
Are you encrypting your backups?		
Will you be willing to encrypt backups of Virginia Tech data?		
Are these backups taken offsite?		
Where are all the locations that will store Virginia Tech backup data? Please list by country if located outside of the United States.		
Employee Policies/Security Awareness		
Do you perform background screenings on employees?		
Do you have an information security awareness program?		
Is the security awareness training mandatory for all employees?		
How frequently are employees required to undergo the security awareness training?		

Do your employees hold Information Technology Security certifications and/or secure coding? If so, which ones?		