

## **Exhibit A - Security Assessment Service - Package 1 - Assessment from the Outside Statement of Work (SOW)**

### *Engagement Overview*

WidgetCo Inc. (Widget) has approached BackGround Software Inc. (BackGround) regarding the potential security issues surrounding Widget's network infrastructure. Widget has asked BackGround to perform the Security Assessment Service - Package 1 - Assessment from the Outside. During this project, BackGround consultants will attempt to discover as much as possible about the Widget's infrastructure and potential security weaknesses, from the outside of the Widget's network (i.e. internet access).

This project is based on BackGround's unique Security Assessment Methodology and during this project the following phases of the Security Assessment Methodology will be performed:

- Phase 1 - Security Assessment Engagement
- Phase 2 - Site Reconnaissance from the Outside
- Phase 3 - Hacking from the Outside
- Phase 7 - Documentation

Based on the requirements gathered through initial review of information provided by Widget, BackGround will help Widget by staffing the following resources for the project:

- System Administrator - Security Specialist for a period of 64 (sixty four) hour(s) at the BackGround site.
- Technical Writer for a period of 16 (sixteen) hour(s) at the BackGround site.
- Project Manager for a period of 48 (fourty eight) hour(s) to oversee all aspects of the project management throughout the duration of the project.

### *Scope of the Engagement*

During this BackGround managed, fixed price, fixed timeline, fixed deliverable engagement, BackGround will assign listed resources to work on a project of Security Assessment Service - Package 1 - Assessment from the Outside.

The following Widget's infrastructure will be examined (based on Widget supplied information):

- One domain name
- Up to 5 (five) machines (one DNS, one web server, one web application server, one database server, one firewall)
- Up to 3 (three) network devices (one router, one switch and one load balancer)

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For general guidance on this assignment, the activities that will be performed by BackGround consultants will be the following:

### **Phase 1 - Security Assessment Engagement**

- Gathering of target site physical address, address (IP number(s) or domain name(s) and/or telephone number(s)
- Project plan outlining tasks to be done

### **Phase 2 - Reconnaissance from the Outside**

#### Process 1 - Public Information

- Gather publicly available information about given IP/ranges and/or domain name(s) such as
  - All domain names for a given customer
  - All blocks of IP addresses for a given customer
  - Network (Internic) information
  - Search results for customer IP(s) and/or domain(s) on newsgroups and www related to any system information (network, system and application)
  - Search results for all email addresses from a given domain on newsgroups and www.
- Gather publicly available information about given telephone number(s) or search for customers telephone numbers in white and yellow pages, newsgroups and www.

#### Process 2 - Site Footprint

- DNS interrogation
- Network route tracing
- Port scanning (TCP and UDP)
- ICMP queries
- Telephone access scanning
- SNMP probing

#### Process 3 - System Footprint

- OS detection
- SNMP probing
- Shared resource enumeration
- Dial-in services probing
- Windows specific actions:
  - TCP 139/445 null session probe
  - NetBIOS probing
  - Registry probing
  - User id enumeration (system, AD and LDAP)
- UNIX specific actions
  - User id enumeration (system and LDAP)

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- Network device specific actions
  - Firewall probing
  - BGP route enumeration

Process 4 - Application Footprint

- Application enumeration (based on known ports and probe responses)
- User id enumeration (application, DB and LDAP)
- HTTP/SSL web site analysis

Process 5 - Wireless LAN Footprint

- Search for Wireless Access Points (WAP) in the proximity of the customer premises (both data centre and user locations)

**Phase 3 - Hacking from the Outside**

Process 1 - Public Information Attacks

- Attempt to perform a public information attack on customer data (i.e. changing the DNS entries, or contact information).

Process 2 - Network Attacks

- Attempt to attack default routers and/or switches
- Denial of Service (DoS) threshold attack (if applicable)
- DNS poisoning attack (limited scope)
- Telephone access exploits
- User id exploits including default and vendor user ids and passwords
- User id exploits including dictionary and brute force user id and password hacking

Process 3 - System Attacks

- Windows specific actions/exploits
- UNIX specific actions/exploits
- User id exploits including default and vendor user ids and passwords
- User id exploits including dictionary and brute force user id and password hacking

Process 4 - Application Attacks

- Various buffer overflow based attacks
- Telnet, ftp, tftp, ssh specific attacks
- SNMP specific attacks
- RIP spoofing
- SMTP/POP/sendmail specific attacks

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- DNS/bind specific attacks
- HTTP/SSL specific attacks (including specific attacks for MS IIS, Apache, NES, Cold Fusion, PHP, Perl, SSI, WebSphere and WebLogic)
- Database specific attacks
- Data based attacks (malformed data, data validation attacks, etc.)
- xterm based attacks (UNIX)
- User id exploits including default and vendor user ids and passwords
- User id exploits including dictionary and brute force user id and password hacking

Process 5 - Wireless LAN Attacks

- Various WAP and WEP attacks (if applicable)
- Any other activity as deemed necessary by BackGound Project Manager, within the length of the engagement;

### *Deliverables*

Following documentation will be delivered to Widget either at the end of the project or as the discovery is made, in case of the finding critical for the Widget security:

Phase 7 - Documentation

- Results of the attempt to perform a public information attack on customer data (i.e. changing the DNS entries, or contact information).
- Results of the attempt to attack default routers and/or switches
- Results of the effects of the Denial of Service (DoS) threshold attack (if applicable)
- Results of the DNS poisoning attack (limited scope)
- Results of the Telephone access exploits
- Results of the User id exploits including default and vendor user ids and passwords
- Results of the User id exploits including dictionary and brute force user id and password hacking
- Results of the Windows specific actions/exploits
- Results of the UNIX specific actions/exploits
- Results of the various buffer overflow based attacks
- Results of the telnet, ftp, tftp, ssh specific attacks
- Results of the SNMP specific attacks
- Results of the RIP spoofing
- Results of the SMTP/POP/sendmail specific attacks
- Results of the DNS/bind specific attacks
- Results of the HTTP/SSL specific attacks (including specific attacks for MS IIS, Apache, NES, Cold Fusion, PHP, Perl, SSI, WebSphere and WebLogic)
- Results of the database specific attacks
- Results of the various data based attacks (malformed data, data validation attacks, etc.)
- Results of the various xterm based attacks (UNIX)
- Results of the various WAP and WEP attacks (if applicable)

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### *Widget's Responsibilities*

Widget will assign a Project Manager to act as a single point of contact for all issues related to the engagement, and be responsible for:

- ensuring availability of information and other resources needed by the BackGround team to complete their assignments;
- receiving BackGround deliverables created as a result of this engagement.

### *BackGround's Responsibilities*

BackGround will manage the project and work with the Widget Project Manager to ensure completion of all deliverables as defined in this SOW, and:

- resolve all issues relating to this engagement in a timely and professional manner;
- secure and coordinate all BackGround resources required to meet BackGround's obligations under the terms of this SOW.

### *Change Control*

Should Widget determine that additional Time & Materials or different resources are required to achieve additional or different results than those described above, BackGround will implement the BackGround Change Order process where the BackGround Project Manager submits a Change Order Request to the Widget Project Manager for approval. The Change Order Request will describe any changes to project resources, schedule, and cost. Widget will authorize any such changes in writing to BackGround prior to BackGround implementing the changes.

### *Assumptions*

The following assumptions were made to create this SOW:

- Widget will provide BackGround's project staff with adequate workspace, including office desk, access to telephone, copier, fax, conference room, and printing facilities;
- Widget will provide BackGround's project staff with Widget's standard desktop workstation for office related work and network access to the Internet;
- Widget will assign a Project Manager for the duration of this engagement;
- All BackGround project deliverables will be received by Widget Project Manager and deemed as accepted upon delivery;
- BackGround project work will be performed at BackGround facilities (except for the initial meeting and final presentation);
- The engagement will begin up to two weeks after receipt of a valid purchase order and signed agreement, or at on another, mutually acceptable date.

Should any of these assumptions prove to be incorrect or incomplete, BackGround reserves the right to modify the rates or schedules described in this SOW.

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*Project Start Prerequisites*

- Customer signed Security Assessment Consulting Services Agreement (CSA)
- Customer signed Limitation of Liability (LOL)
- Consultant signed Non-Disclosure Agreement (NDA)
- Consultant signed Letter of Action Intent (LOI)
- Consultant signed Code of Ethical Conduct (CEC)
- Customer supplied target site physical address, address (IP number(s) or domain name(s) and/or telephone number(s)
- Customer and Consultant signed Statement of Work (SOW) outlining expected deliverables
- Customer issued Purchase Order in the full amount of the service to be performed