NMAP TECHNOLOGY LICENSE AGREEMENT

THIS NMAP TECHNOLOGY LICENSE AGREEMENT (together with all exhibits and other attachments hereto, the "Agreement") is entered into and effective as of the last signature date set forth below, or 14 days after the first signature on the fully executed contract, whichever is earlier ("Effective Date"), by and between _________ ("Licensee") and Insecure.Com, LLC, a California company located at 113 Cherry St #1337, Seattle, WA 98104-2205 ("Insecure").

1. COVERED PRODUCTS

Insecure licenses its technology for use in specific products. This Agreement covers the following product(s): ___________ ("Covered Products").

2. NMAP TECHNOLOGY SELECTIONS

For the purposes of this Agreement, Nmap Technology describes the permitted Nmap integration methods and scanning techniques chosen for this license. They are marked in the next two subsections. All integration methods and scanning techniques are described in Schedule 1.

2.1 Permitted Integration Methods. This Agreement permits Licensee to integrate Nmap Technology using either or both of these integration methods (described in Schedule 1):

- Bundle Nmap executable with Covered Products.
- Integrate Nmap source code and/or data files into Covered Products.

2.2 Permitted Scanning Techniques. Insecure offers licenses for a wide variety of network scanning technology. This is divided into five scanning techniques to best accommodate Licensees’ needs. Permitted scanning techniques for this Agreement are marked with XX below.

XX Host Discovery
XX Port Scanning
XX OS Detection
XX Service Detection
XX Nmap Scripting Engine (NSE)

Licensee covenants that Covered Products will only use the scanning technique(s) marked above as described in Schedule 1.

2.3 Licensed Versions. Licensee may use Nmap Technology from the Nmap Security Scanner version __________ in accordance with this Agreement. Previous versions may be used, though that is not recommended. Later versions may only be used as described in Schedule 1. This set of permitted Nmap versions are herefore known as the Licensed Versions.

3. PAYMENT

3.1 License Fees. In consideration of Insecure’s provision and license of the Nmap Technology hereunder, Licensee shall pay Insecure $XX,XXX ("Annual Fee") annually for use of Nmap Technology in Covered Products in accordance with this Agreement. This fee also includes support and updates as described in Articles 7 and 8. The fee for the first year is due in full thirty (30) days after the Effective Date. Thereafter, Annual Fee payments shall be due on each anniversary of the Effective Date unless Licensee elects to terminate its Nmap distribution, update, and support rights as described in Section 4.3. All amounts are in United States Dollars.

4. TERM AND TERMINATION

4.1 Term. The term of each license granted hereunder ("Term") shall be perpetual, unless terminated as provided for in Sections 4.2, 4.3, or 4.4.

4.2 License Breach. Either party may, without prejudice to any other remedy they may have, terminate this Agreement in the event of
any material breach of this Agreement by the
other party which isn’t remedied within thirty
(30) days after notifying the breaching party.
The notification must fully describe the breach
and declare intent to terminate the Agreement if
not remedied.

4.3 Termination by Licensee for
Convenience. Licensee may terminate this
license and cease paying the Annual Fee by
providing written notice to Insecure. Such
termination will take effect on the Annual Fee
due date following the termination notice, or
when the current paid-up Annual Fee period
ends, whichever is later. After such a
termination becomes effective, Licensee is no
longer entitled to redistribute Nmap Technology
or use any updates made available after
termination. Rights already granted to existing
end user customers are unaffected per Section
4.6. No refunds of previously paid Annual Fees
are provided upon termination, but those license
and support rights continue for their original
duration and no further payments will be due.

4.4 Trial Period Termination with Refund.
Licensee may terminate this Agreement for any
reason during the first six months from the
Effective Date by notifying Insecure of that
election. Insecure will provide a full refund
within 30 days of all money paid by licensee,
including any License Fee and Annual Fee
payments. Licensee may not redistribute Nmap
Technology in any form after electing
termination, though rights already granted to
existing end user customers are unaffected per
Section 4.6.

4.5 Cessation of Use. Upon termination of
this Agreement, Licensee shall cease
distributing the Nmap Technology in Covered
Products.

4.6 End User License Agreements
Unaffected. Upon termination for whatever
reason, except for Licensee or end user breach
of Section 5.2, the end user license agreements
shall remain unaffected.

5. LICENSE SCOPE

5.1 Duplication and Distribution by
Licensee. Subject to the terms and conditions of
this Agreement, Insecure grants Licensee a non-
exclusive, worldwide, non-transferable, license
to use, reproduce, distribute, and display the
Nmap Technology as necessary or desirable to
incorporate and adapt Nmap Technology into
the Covered Products, and to update, market,
and distribute those products to end users.
Licensee may distribute to end users directly, or
through multiple tiers of distribution, including
resellers, distributors, VARS and OEMs.

5.2 License of Nmap Technology to End
Users. Licensee may grant to end users the right
to use Covered Products. Licensee may not
permit end users to sublicense or externally
redistribute Nmap Technology in whole or in
part, except as allowed by copyright provisions
such as the first sale doctrine and principal of
exhaustion.

5.3 Modifications. During the Term,
Licensee shall have the non-sublicensable right
to modify, add-on to, or enhance the Nmap
Technology for the purpose of creating the
Covered Products and shall own all rights
thereto; provided, however, that to the extent
that such a modified product constitutes a
“derivative work” as defined by 17 U.S.C. 101,
Licensee’s rights therein shall remain subject to
this Agreement.

5.4 No Unlicensed Use. Licensee covenants
that it will not redistribute the Nmap
Technology, in whole or in part, except as
expressly permitted under this (or another
existing) Agreement. Any use of Nmap
Technology not expressly granted to Licensee is
prohibited.

6. PROPRIETARY RIGHTS

6.1 Ownership. Licensee acknowledges and
agrees that the copyright, patent, trade secret,
and all other intellectual property rights of whatever nature in the Nmap Technology, and all copies thereof, partial or complete, in all media and whether or not merged into other materials, are and shall remain the property of Insecure, and nothing in this Agreement shall be construed as transferring any aspects of such rights to Licensee or any third party.

6.2 Use of Nmap Trademark. “Nmap” is a registered trademark of Insecure. Licensee may use the Nmap trademark to identify its use of Nmap Technology in the Covered Products.

7. SUPPORT

7.1 Included Support. During the Term, Insecure will provide e-mail and telephone developer support at no extra charge beyond the Annual Fee. This includes troubleshooting and fixing errors in Nmap Technology and/or generating work-arounds, as well as providing advice relating to the use and implementation of Nmap Technology in Covered Products. Custom programming other than to fix errors in Nmap Technology is not included. E-mail to support@nmap.com is the preferred form of support, and Insecure may not have staff available at all times to take calls. Insecure will use commercially reasonable efforts to respond to any and all developer support requests within twenty-four (24) hours and to resolve the requests as quickly as possible.

7.2 Additional Support. Should Licensee require on-site support or support beyond what is outlined herein, a support fee for such required additional support shall be negotiated in good faith by the parties. Licensee is under no obligation to purchase any additional support from Insecure.

8. UPDATES

Insecure shall provide updates such as error fixes and enhancements throughout the Term at no extra charge beyond the Annual Fee. Updates are announced on the Nmap announcement mailing list. Insecure recommends that at least one employee of Licensee subscribe at https://nmap.org/mailman/listinfo/announce.

9. WARRANTY AND DISCLAIMERS

9.1 Authority. Each party warrants and represents to the other party that it has full power and authority to enter into this Agreement and to carry out its obligations hereunder.

9.2 Non-Infringement. Insecure warrants and represents to Licensee that Nmap Technology does not infringe upon the U.S. copyright, trademark, or trade secret rights of any other person or entity. Insecure represents and warrants that it holds the copyrights necessary to extend the licenses described by this Agreement.

9.3 Functionality. For the period of one (1) year following the Effective Date, Insecure represents and warrants to Licensee that the unmodified Nmap Technology shall operate in the manner documented, and covenants that upon notification to Insecure of any errors, Insecure will, during its normal business hours and at no cost to Licensee, use reasonable efforts to correct such errors which are reproducible and verifiable by Insecure. To ensure that Nmap Technology meets Licensee’s needs, Insecure has made it freely available for testing at http://nmap.org/. Licensee is encouraged to test it before executing this Agreement.

9.4 Warranty Disclaimer. THE WARRANTY SET FORTH BY SECTION 9.3 IS A LIMITED WARRANTY AND IS THE ONLY FUNCTIONAL OR OPERATIONAL WARRANTY MADE BY INSECURE. EXCEPT AS SPECIFICALLY PROVIDED BY SECTION 9.3, INSECURE EXPRESSLY DISCLAIMS, AND LICENSEE HEREBY EXPRESSLY WAIVES, ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. INSECURE DOES NOT WARRANT THAT THE NMAP TECHNOLOGY WILL MEET LICENSEE’S REQUIREMENTS OR THAT THE OPERATION OF THE NMAP TECHNOLOGY WILL BE UNINTERRUPTED OR ERROR-FREE, OR THAT ERRORS IN THE NMAP TECHNOLOGY WILL BE CORRECTED. INSECURE’S LIMITED WARRANTY IS IN LIEU OF ALL LIABILITIES OR OBLIGATIONS OF INSECURE FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE INSTALLATION, USE OR PERFORMANCE OF THE NMAP TECHNOLOGY.

9.5 Adverse Reactions. Nmap Technology is not designed to crash systems and should not pose any problems for standards-conformant network equipment. However, some systems, devices, and applications have occasionally been reported to react adversely to port scans, OS detection, service detection probes, and NSE scripts. This is an error in the network device in question, and not in Nmap Technology. Nmap Technology should not be used against mission-critical systems without careful monitoring.

9.6 Accuracy. Nmap attempts to provide quick, accurate results even in the face of occasional dropped or delayed packets and unfamiliar devices. But there are limits as to what Nmap can compensate for. In addition, techniques such as version and operating system guessing are an inexact science. So Nmap Technology will not always result in 100% accurate results, though Insecure will attempt to understand and correct for any reported misidentifications.

9.7 Warranties to Third Parties. Any warranty granted by the Licensee to any end users shall be that of Licensee alone, and Insecure shall not be liable to any such person on any cause of action or theory of recovery whatsoever. Insecure shall not be liable to any third party as express or implied third party beneficiary under this Agreement.

10. Third-Party Libraries

The Nmap Security Scanner can be configured to use a number of open source programming libraries. These libraries all have BSD-style licenses which allow royalty-free redistribution within other software (including commercial/proprietary software) as long as certain minimal terms are met. For example, some require an acknowledgment or warranty disclaimer in the product documentation of any software which includes them. These third party libraries are not prepared by or owned by Insecure, and do not comprise part of Nmap Technology. However, some are included with the Nmap Security Scanner as a convenience. We maintain a list of these libraries along with their license requirements and how they may be used and/or excluded from Nmap. The latest version of the list is available at https://svn.nmap.org/nmap/docs/Nmap-Third-Party-Open-Source.pdf. The version of the file applicable to a specific Nmap release can be found in source code package we distribute for each release at docs/Nmap-Third-Party-Open-Source.pdf. Licensee is responsible for complying with the licenses for any libraries it uses.

11. Delivery

Insecure shall make the Nmap Technology and the corresponding Documentation available for download from http://nmap.org, or at such other address as Insecure may designate.

12. Assignment

Except as provided herein, neither party may assign this Agreement or its rights hereunder without the prior written consent of the other Party. Either party may, without consent of the other party, assign this Agreement or its rights hereunder to any successor succeeding to the assigning party’s business to which this Agreement relates, provided that such successor
assumes all obligations of the assignor under this Agreement. In the event of such an assignment by Licensee, Covered Products (Section 1) status and rights are not conferred to all products of the successor, but only to existing Covered Products and direct derivatives (such as new versions or editions of those products). These Covered Products may be rebranded and/or further developed by the successor.

13. INDEMNITY AND LIABILITY

13.1 Indemnification. Subject to Article 14 and the balance of this Article 13, as Licensee’s sole and exclusive remedy for any breach of Section 9.2, or claim relating to infringement matters of any kind, Insecure hereby agrees to indemnify Licensee against any settlement, judgment and reasonable defense costs resulting from a third party claim that the Nmap Technology, furnished and used within the scope of this Agreement, infringes any copyright, trademark, or trade secret provided that as conditions of indemnification each of the following is met: (a) Insecure is given written notice of the claim within thirty (30) days of its receipt; (b) Insecure is given immediate and complete control over the defense and/or settlement of the claim, and Licensee fully cooperates with Insecure in such defense and/or settlement; (c) Licensee does not prejudice in any manner Insecure’s conduct of such claim; and (d) the alleged infringement is not based upon the use of the Nmap Technology in a manner prohibited under this Agreement, or in a manner for which Nmap Technology was not designed; and (e) Licensee shall render to Insecure a full accounting of any amounts for which indemnification is sought.

13.2 Altered Version. Notwithstanding Section 13.1, Insecure shall have no liability for any claim of infringement based on (a) the use of a superseded or altered version of the Nmap Technology if infringement would have been avoided by the use of a current or unaltered version of Nmap Technology which Insecure made available to Licensee, provided that Insecure notified Licensee that superseded version contained a possible infringement, or (b) the combination, operation or use of the Nmap Technology with software, hardware or other materials not furnished by Insecure, if infringement would have been avoided but for such combination, operation, or use.

13.3 Modification and Replacement. Notwithstanding Section 13.1, if any third party asserts that the Nmap Technology infringes a third party copyright, trademark, or trade secret, or if Insecure determines that claim of infringement by a third party is possible, it may, at its election and at no additional license fee to Licensee (a) obtain a license from such third party, (b) modify the Nmap Technology so that it is not infringing, or (c) refund the applicable License Fee payment. Upon its election of any such alternative Insecure shall incur no further indemnity to Licensee for any continued use by Licensee of the Nmap Technology in prior form.

14. LIMITATION OF LIABILITY

14.1 High Risk Use. The Nmap Technology is not designed, manufactured, or intended for use in hazardous environments requiring fail-safe performance where the failure of the software could lead directly to death, personal injury, or significant physical or environmental damage (“High Risk Activities”). Use of Nmap Technology in High Risk Activities is not authorized.

14.2 Force Majeure. Neither of the Parties shall be liable for any loss or for any failure to perform any obligation hereunder due to causes beyond its control including without limitation industrial disputes of whatever nature, power loss, telecommunications failure, acts of God, or any cause beyond its reasonable control.

15. GENERAL

15.1 Headings. The headings and captions used in this Agreement are for convenience only
and are not intended to be used as an aid to interpretation.

15.2 Section References. Except as stated otherwise, all references to a “Section” shall mean sections of the main body of this Agreement and not of a Schedule.

15.3 Severability. The provisions of this Agreement are severable, and if any part of this Agreement is held to be illegal or unenforceable, the validity or enforceability of the remainder of this Agreement shall not be affected.

15.4 Binding. This Agreement will be binding upon and inure to the benefit of the Parties hereto, their respective successors and assigns.

15.5 No Waiver. Failure by either party to exercise any right or remedy under this Agreement does not signify acceptance of the event giving rise to such right or remedy.

15.6 No UCITA. The parties “opt out” of UCITA in the event that any performance of this Agreement would implicate the laws of a jurisdiction which has adopted UCITA.

15.7 Choice of law and disputes. This Agreement will be governed by and construed in accordance with the laws of the State of Washington, as if performed wholly within the state and without giving effect to the conflicts of law principles of any jurisdiction or the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded. Any legal action or proceeding arising under this Agreement will be brought exclusively in the federal or state courts located in Washington, and the parties hereby consent to personal jurisdiction and venue therein.

15.8 Notices. Notices required or permitted to be given or delivered under this Agreement shall be given in writing and either (a) hand delivered, (b) delivered by mail or courier service with delivery confirmation, or (c) sent by email, as long as the recipient responds to acknowledge receipt.

15.9 Relationship of the Parties. Each of the parties expressly acknowledges that the relationship intended to be created by this Agreement is a business relationship based entirely on and circumscribed by the express provisions of this Agreement and that no joint venture, agency, fiduciary or employment relationship is intended or created by reason of this Agreement.

15.10 Survival. Sections 5.2 (License to End Users), 4.5 (Cessation of Use), 4.6 (End User License Agreements); and Articles 6 (Proprietary Rights), 14 (Limitations of Liability), and 15 (General) shall survive the termination of this Agreement for any reason, and continue for such time as they may remain applicable. Articles 9 (Warranty and Disclaimers) and 13 (Indemnity and Liability) shall survive for one (1) year following termination of the Agreement or termination of updates and support.

15.11 Amendments. The parties further agree that any amendment, waiver, or other matter relating hereto shall require a document signed by both parties. All amendments or modifications of this Agreement shall be binding upon the parties despite any lack of consideration. When one party is granting a right to the other without any consideration, a document signed by the granting party is valid and binding.

15.12 Entire Agreement. This document, when taken with any Schedules, comprise the entire agreement between the Parties regarding the subject matter hereof and supersede and merge all prior proposals, understandings and all other agreements, oral and written, between the Parties relating to the Agreement.

15.13 Counterparts and Electronic Signature. This Agreement may be executed in
two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. The counterparts of this Agreement and all ancillary documents may be executed and delivered by facsimile or other electronic signature by any of the parties to any other party and the receiving party may rely on the receipt of such document so executed and delivered by facsimile or other electronic means as if the original had been received.

The parties have duly executed this Agreement by the authorized signatures below.

Licensee

By: __________________________
Name: __________________________
Title: __________________________
Email: __________________________
Date: __________________________

Insecure.Com LLC ("Insecure")

By: __________________________
Name: __________________________
Title: __________________________
Email: __________________________
Date: __________________________
This document is a schedule for integrating Nmap Technology with Covered Products, based on the selections made in Article 2 of this Agreement.

### Bundle Nmap Executable with Product

Licensee may include Licensed Versions of the Nmap Security Scanner with Covered Products. Covered Products may execute Nmap and interpret the output directly, or by reading an Nmap output file. While Licensee is permitted to bundle the whole Nmap Security Scanner with Covered Products for convenience, only a subset of functionality may be authorized for Licensee use depending on the selections made in Article 2. Whenever Nmap is executed, option flags are specified that direct Nmap what to do. Licensee may use any combination of the General Options specified in the table below.

In addition to these option flags, the target host or network addresses or names may be specified. Licensee may also use any combination of Nmap flags allowed by the specific scan technique sections appearing later in this schedule. Any arguments may be given to the flag options which take them. Any other flags may only be used with the consent of Insecure. Note that, depending on which Nmap Technology selections were made in Article 2, Licensee may be required to pass certain options to Nmap at all times. Those cases are discussed later in this Schedule.

### Permitted General Option Flag(s) and Description

<table>
<thead>
<tr>
<th>Flag(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-6</td>
<td>Enable IPv6 operation</td>
</tr>
<tr>
<td>--append-output, -d, --log-errors, --open, --packet-trace, --reason, --v</td>
<td>These verbosity and debugging-related options control what information is included in Nmap output.</td>
</tr>
<tr>
<td>--badsum, -D, --data-length, -f, -g, --ip-options, --mtu, --ttl</td>
<td>Firewall and IDS evasion options (rarely used)</td>
</tr>
<tr>
<td>--datadir</td>
<td>Obtain Nmap data files from custom location</td>
</tr>
<tr>
<td>--dns-servers, -n, -R, --system-dns</td>
<td>DNS-related options</td>
</tr>
<tr>
<td>-e, -S, --spoofo-mac</td>
<td>Specify a network interface, IP address, or MAC address to use</td>
</tr>
<tr>
<td>--exclude, --excludefile</td>
<td>Exclude specified hosts/networks from the scan</td>
</tr>
<tr>
<td>--defeat-icmp-ratelimit, --defeat-rst-ratelimit, --host-timeout, --initial-rtt-timeout, --max-hostgroup, --max-parallelism, --max-rate, --max-retries, -max-rtt-timeout, --min-hostgroup, --min-parallelism, --min-rate, --min-rtt-timeout, --scan-delay, -T&lt;0-5&gt;</td>
<td>Scan performance related options</td>
</tr>
<tr>
<td>-iL, -iR</td>
<td>Take list of targets from a text file or choose them at random</td>
</tr>
<tr>
<td>--noninteractive</td>
<td>Currently does nothing, but should be set whenever Nmap is called by a program or script.</td>
</tr>
<tr>
<td>--no-stylesheet, --stylesheet, --webxml</td>
<td>Specify the XSL stylesheet for converting XML output to other formats such as HTML.</td>
</tr>
<tr>
<td>-oA, -oG, -oN, -oS, -oX</td>
<td>Specifies where to save output file(s) and which formats to use. We generally recommend that licensees use the XML format (-oX).</td>
</tr>
</tbody>
</table>
### Upgrading Bundled Nmap Executable

During the Term of this Agreement (and only while licensee is current with all due Annual Fee payments), Licensee may update a bundled Nmap Security Scanner as described in this Agreement. Regular updating is recommended for reliable and accurate operation, particularly if OS detection, service detection, or Nmap Scripting Engine (NSE) were selected in Section 2.2.

Licensee may update to any newer version of the whole Nmap Security Scanner available from the Nmap download page unless Insecure notifies Licensee that certain versions are ineligible due to license incompatibility. In such a case, Insecure will make available a custom version of the Nmap Security Scanner which contains the latest material bug fixes and feature enhancements to the Nmap Technology. If an allowed option name changes to use different flag characters, Licensee may use the new option name instead. For example, if –packet-trace became --ptrace, Licensee could use --ptrace even though that spelling of the option is not explicitly listed in this Schedule.

Updates are announced on the nmap-partners mailing list. Insecure recommends that at least one employee of Licensee subscribe at [http://cgi.insecure.org/mailman/listinfo/nmap-partners](http://cgi.insecure.org/mailman/listinfo/nmap-partners). We also recommend subscribing to the public low-volume nmap-hackers announcement list at [http://cgi.insecure.org/mailman/listinfo/nmap-hackers](http://cgi.insecure.org/mailman/listinfo/nmap-hackers). Updates can also be found on the Nmap download page ([http://nmap.org/download.html](http://nmap.org/download.html)).

While we recommend updating Nmap as a whole rather than individual data files, Licensee is permitted to update files (such as the version detection or OS detection databases, or NSE scripts) individually. Nmap’s data files are described at [http://nmap.org/book/data-files.html](http://nmap.org/book/data-files.html).

### Host Discovery w/Bundled Nmap

Host discovery, sometimes called “ping scanning” or “host enumeration”, is a way to learn what hosts on a target network are up and available. If Host Discovery is not marked in Section 2.2, Licensee must specify the -Pn option in every execution of Nmap within Licensees products. If Host Discovery is marked in Section 2.2, Licensee may use the following Nmap option flags, in addition to any allowed elsewhere in this Schedule.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-p</td>
<td>Specify the port(s) to be scanned. Note that unless Port Scanning was licensed, you must include either this option, -sL, or --sn. And if you go with -p, you may only specify up to 5 ports (see the port scanning options section later in this Schedule).</td>
</tr>
<tr>
<td>-Pn</td>
<td>Disable host discovery (assume all target hosts are online). This option must be specified if Host Discovery is not licensed.</td>
</tr>
<tr>
<td>--privileged, --unprivileged</td>
<td>Tell Nmap whether to use options which generally require special privileges (e.g. root or administrator).</td>
</tr>
<tr>
<td>-r</td>
<td>Tells Nmap not to randomize the order in which ports are scanned</td>
</tr>
<tr>
<td>--randomize-hosts, --rH</td>
<td>Randomize the host scan order of the target network.</td>
</tr>
<tr>
<td>--resume</td>
<td>Resume an aborted scan</td>
</tr>
<tr>
<td>--send-eth, --send-ip</td>
<td>Send using raw Ethernet frames or IP packets</td>
</tr>
<tr>
<td>-sL</td>
<td>Execute a list scan (lists target hosts)</td>
</tr>
<tr>
<td>-sn</td>
<td>Skip the port scanning phase</td>
</tr>
<tr>
<td>-V, --version</td>
<td>Obtain Nmap version number</td>
</tr>
<tr>
<td>Host Discovery flag</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>-PA, -PE, -PM, -PO, -PP, -PR, -PS, -PU, -PY</td>
<td>Specify the type(s) of ping probes Nmap should use</td>
</tr>
<tr>
<td>--traceroute</td>
<td>Gather information on intermediate network hops used to reach the target</td>
</tr>
</tbody>
</table>

### Port Scanning w/Bundled Nmap

Port scanning is a way to determine which TCP, UDP, or SCTP ports are active (“open”) on remote systems. Protocol scanning (determining which IP protocols a system supports) is also included in this Nmap Technology. If Port Scanning is not marked in Section 2.2, Licensee must prevent Nmap’s port scanner from running by always executing Nmap in distributed products with the -sL, -sn, or -p options. If the -p option is chosen in that case, it may not be used to specify more than 5 ports. So “-p 21,22,23,80” is OK, but Port Scanning must be licensed to execute “-p 1-65535” or to run Nmap without the -sL, -sP, or -p options. If Port Scanning is marked in Section 2.2, Licensee may use the following Nmap option flags, in addition to any allowed elsewhere in this Schedule.

<table>
<thead>
<tr>
<th>Port Scanning flag(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-b, -sA, -sF, -sI, -sM, -sN, -sO, -sS, -sT, -sU, -sW, -sX, -sY, -sZ</td>
<td>Specify the type(s) of scan to perform</td>
</tr>
<tr>
<td>-F, --port-ration, --top-ports</td>
<td>Alternatives to -p for specifying the port numbers to scan</td>
</tr>
<tr>
<td>--scanflags</td>
<td>Specify custom TCP flags for the scan</td>
</tr>
</tbody>
</table>

### OS Detection w/Bundled Nmap

OS Detection is a way to remotely guess the operating system running on a remote machine by fingerprinting its network behavior. For details, see [http://nmap.org/book/osdetect.html](http://nmap.org/book/osdetect.html). If OS Detection is marked in Section 2.2, Licensee may use the following Nmap option flags, in addition to any allowed elsewhere in this Schedule.

<table>
<thead>
<tr>
<th>OS Detection flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-O</td>
<td>Enable OS detection</td>
</tr>
<tr>
<td>--osscan-guess</td>
<td>Make aggressive OS guesses, even if no perfect match found</td>
</tr>
<tr>
<td>--osscan-limit</td>
<td>Only perform an OS scan if conditions are good (e.g. at least one open and one closed port are found)</td>
</tr>
</tbody>
</table>

### Service Detection w/Bundled Nmap

Service detection interrogates open UDP and TCP ports in an effort to determine what application protocol (and ideally the application name and version number) is listening on the open port. For details, see [http://nmap.org/book/vscan.html](http://nmap.org/book/vscan.html). If Service Detection is marked in Section 2.2, Licensee may use the following Nmap option flags, in addition to any allowed elsewhere in this Schedule.

<table>
<thead>
<tr>
<th>Service Detection flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flag</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>--allports</td>
<td>Version scan all ports, ignoring any Exclude directives in nmap-service-probes</td>
</tr>
<tr>
<td>-sR</td>
<td>Sun RPC scanning</td>
</tr>
<tr>
<td>-sV</td>
<td>Enable service/version scanning</td>
</tr>
<tr>
<td>--version-intensity, --version-light, --version-all</td>
<td>Specify intensity of version scan</td>
</tr>
<tr>
<td>--version-trace</td>
<td>Debug version detection</td>
</tr>
</tbody>
</table>

**Nmap Scripting Engine (NSE) w/Bundled Nmap**

The Nmap Scripting Engine is an infrastructure and library of hundreds of scripts and libraries for automating a wide variety of networking tasks. The feature is described and documented at [http://nmap.org/book/nse.html](http://nmap.org/book/nse.html), and the individual scripts and libraries are all documented at [http://nmap.org/nsedoc/](http://nmap.org/nsedoc/). If Nmap Scripting Engine (NSE) is marked in Section 2.2, Licensee may use the following Nmap option flags, in addition to any allowed elsewhere in this Schedule.

<table>
<thead>
<tr>
<th>Nmap Scripting Engine (NSE) flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>--script, -sC</td>
<td>Enable the Nmap Scripting Engine</td>
</tr>
<tr>
<td>--script-args</td>
<td>Specify arguments to selected scripts</td>
</tr>
<tr>
<td>--script-trace</td>
<td>Debug NSE</td>
</tr>
<tr>
<td>--script-updatedb</td>
<td>Update the NSE script database to reflect new scripts you may have written or added</td>
</tr>
</tbody>
</table>

**Integrate Nmap Source Code and/or Data Files into Product**

Most licensees integrate Nmap by shipping an Nmap executable with their products. During runtime, their products generally execute Nmap and then read and parse Nmap’s XML results. This is the preferred integration approach because it preserves the separation between Nmap and the Licensee’s products and it makes upgrading Nmap to the latest version a trivial affair. It is also very easy to implement and avoids the burden of maintaining their own scanning engine.

Other licensees prefer to integrate Nmap by writing their own engine and parsing Nmap’s data files (such as the OS detection or version detection databases). Some even incorporate code from Nmap in their engines. This approach is permitted too, provided that Licensee only uses code and data files appropriate for the Nmap Technology they have chosen to license in Article 2.

Licensees who have selected any technology to license may use code and data files from the libnetutil, nbase, and nssock directories, as well as the files charpool.*, global_structures.h, nmap.*, tcpip.*, and utils.*. The asterisks used here are wildcards, so tcpip.* includes tcpip.cc, tcpip.h, and any other file starting with “tcpip.”.

Licensees who have selected the host discovery and/or port scanning technologies in Article 2 may also use code and data from the files MACLookup.*, nmap-mac-prefixes, nmap-payloads, nmap-protocols, nmap-services, payload.*, scan_engine.*, services.*, Target.*, TargetGroup.*, targets.*, and traceroute.*.
Licensees who have selected the OS detection technology in Article 2 may also use code and data from the files FingerPrintResults.*, nmap-os-db, osscan.*, and osscan2.*.

Licensees who have selected the service detection technology in Article 2 may also use code and data from the files nmap-rpc, nmap_rpc.*, nmap-service-probes, and service_scan.*.

Licensees who have selected the Nmap Scripting Engine (NSE) technology in Article 2 may also use code and data from the files in the nselib and scripts directories, as well as files with names starting with “nse_”.

If Licensee wishes to use different Nmap source code or data files than those described above, please mail the request to sales@nmap.com. Permission will be granted as long as the code or data files relate to the technologies licensed by Licensee.

**Updating Nmap Source Code and Data Files**

During the Term of this Agreement (and only while licensee is current with all due Annual Fee payments and has not terminated Maintenance and Support), Licensee may update Nmap code and data files to those from newer versions of Nmap Security Scanner as described in this Agreement. Licensee may also use code and data files from Nmap’s source code repository (see https://nmap.org/book/install.html#inst-svn), from the web repository at https://svn.nmap.org, or from releases on Nmap’s download page (https://nmap.org/download.html). Regular updating is recommended for reliable and accurate operation, particularly if OS detection, service detection, or Nmap Scripting Engine (NSE) were selected in Article 2.

If newer versions of Nmap have license incompatibilities which prevent normal Nmap releases from being used this way, Insecure will make available a custom version of the Nmap Security Scanner to Licensees which contains the latest material bug fixes and feature enhancements to the Nmap Technology as well as the functionality Licensee selected in Article 2 while omitting the problematic third party code.