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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Air Force **DATE:** February 2011

| <b>APPROPRIATION/BUDGET ACTIVITY</b>   |                |                |                     | <b>R-1 ITEM NOMENCLATURE</b>                  |                      |                |                |                |                |                         |                   |
|--|----------------|----------------|---------------------|---|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> |                |                |                     | PE 0305103F: <i>Cyber Security Initiative</i> |                      |                |                |                |                |                         |                   |
| <b>COST (\$ in Millions)</b>   | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b>                            | <b>FY 2012 Total</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
| Total Program Element  | 1.992          | 2.030          | 2.026               | -   | 2.026                | 2.051          | 2.048          | 2.049          | 2.085          | Continuing              | Continuing        |
| 671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i>  | 1.992          | 2.030          | 2.026               | -   | 2.026                | 2.051          | 2.048          | 2.049          | 2.085          | Continuing              | Continuing        |

**A. Mission Description and Budget Item Justification**

The DoD Cyber Crime Center (DC3) was created as a DoD center of excellence to efficiently organize, equip, train, and employ scarce resources to more effectively address the proliferation of computer crimes affecting the DoD. DC3 has a digital forensics laboratory, training program, institute, and National Cyber Investigative Joint Task Force Analytical Group. To enable its operations, through the Defense Cyber Crime Institute (DCCI), DC3 will remain on the leading edge of computer technologies and techniques through research, development, testing and evaluation applied to digital evidence processing and computer forensic analysis; and by conducting liaison and by partnering with governmental, university, and private industry computer security officials. DC3 will develop imaging tools, steganalysis and stegextraction tools, and password over-ride tools. These software tools will enable DC3 to increase the probability of data recovery that would otherwise remain undetected. The Intrusions/Intruders Signature Program (IISP) provides for the R&D of products and technologies that detect trace and profile hostile cyber adversaries. This capability provides network monitoring and the framework for sharing and automating reverse engineering techniques. Computer Incident Batch Oriented Recursive Examination (CIBORE) is used to aid the counterintelligence and law enforcement communities to respond to computer intrusions. It is also a data reduction tool that takes a large volume of data, identifies the known "good" and "bad" files and eliminates them from consideration, leaving several GBs of files as candidate malicious code files. This program is categorized in Budget Activity (BA) 7 because it supports the development efforts of operational systems.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b> | <b>FY 2012 Total</b> |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 2.065          | 2.030          | 2.033               | -                  | 2.033                |
| Current President's Budget                        | 1.992          | 2.030          | 2.026               | -                  | 2.026                |
| Total Adjustments                                 | -0.073         | -              | -0.007              | -                  | -0.007               |
| • Congressional General Reductions                |                | -              |                     |                    |                      |
| • Congressional Directed Reductions               |                | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              |                | -              |                     |                    |                      |
| • Congressional Directed Transfers                |                | -              |                     |                    |                      |
| • Reprogrammings                                  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -0.073         | -              |                     |                    |                      |
| • Other Adjustments                               | -              | -              | -0.007              | -                  | -0.007               |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force  |         |         |              |   |               |         |         | DATE: February 2011                               |              |                  |               |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 7: Operational Systems Development   |         |         |              | R-1 ITEM NOMENCLATURE<br>PE 0305103F: Cyber Security Initiative |               |         |         | PROJECT<br>671931: TECH SURVEIL COUNTER MEAS EQPT |              |                  |               |
| COST (\$ in Millions)   | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO   | FY 2012 Total | FY 2013 | FY 2014 | FY 2015   | FY 2016      | Cost To Complete | Total Cost    |
| 671931: TECH SURVEIL COUNTER MEAS EQPT  | 1.992   | 2.030   | 2.026        | -   | 2.026         | 2.051   | 2.048   | 2.049   | 2.085        | Continuing       | Continuing    |
| Quantity of RDT&E Articles  | 0       | 0       | 0            | 0   | 0             | 0       | 0       | 0   | 0            |                  |               |
| A. Mission Description and Budget Item Justification  |         |         |              |   |               |         |         |   |              |                  |               |
| The DoD Cyber Crime Center (DC3) was created as a DoD center of excellence to efficiently organize, equip, train, and employ scarce resources to more effectively address the proliferation of computer crimes affecting the DoD. DC3 has a digital forensics laboratory, training program, institute, and National Cyber Investigative Joint Task Force Analytical Group. To enable its operations, through the Defense Cyber Crime Institute (DCCI), DC3 will remain on the leading edge of computer technologies and techniques through research, development, testing and evaluation applied to digital evidence processing and computer forensic analysis; and by conducting liaison and by partnering with governmental, university, and private industry computer security officials. DC3 will develop imaging tools, steganalysis and stegextraction tools, and password over-ride tools. These software tools will enable DC3 to increase the probability of data recovery that would otherwise remain undetected. The Intrusions/Intruders Signature Program (IISP) provides for the R&D of products and technologies that detect trace and profile hostile cyber adversaries. This capability provides network monitoring and the framework for sharing and automating reverse engineering techniques. Computer Incident Batch Oriented Recursive Examination (CIBORE) is used to aid the counterintelligence and law enforcement communities to respond to computer intrusions. It is also a data reduction tool that takes a large volume of data, identifies the known “good” and “bad” files and eliminates them from consideration, leaving several GBs of files as candidate malicious code files. This program is categorized in Budget Activity (BA) 7 because it supports the development efforts of operational systems. |         |         |              |   |               |         |         |   |              |                  |               |
| B. Accomplishments/Planned Programs (\$ in Millions)  |         |         |              |   |               |         | FY 2010 | FY 2011   | FY 2012 Base | FY 2012 OCO      | FY 2012 Total |
| Title: Digital Forensic Tools   |         |         |              |   |               |         | 1.992   | 2.030   | 2.026        | -                | 2.026         |
| Description: Digital Forensic Tools   |         |         |              |   |               |         |         |   |              |                  |               |
| FY 2010 Accomplishments:<br>Develop and validate tools.   |         |         |              |   |               |         |         |   |              |                  |               |
| FY 2011 Plans:<br>Develop and validate tools.   |         |         |              |   |               |         |         |   |              |                  |               |
| FY 2012 Base Plans:<br>Continue to develop and validate tools.  |         |         |              |   |               |         |         |   |              |                  |               |
| FY 2012 OCO Plans:<br>Not applicable  |         |         |              |   |               |         |         |   |              |                  |               |
| Accomplishments/Planned Programs Subtotals  |         |         |              |   |               |         | 1.992   | 2.030   | 2.026        | -                | 2.026         |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force  |   |   | <b>DATE:</b> February 2011 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305103F: <i>Cyber Security Initiative</i> | <b>PROJECT</b><br>671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i> |                            |

**C. Other Program Funding Summary (\$ in Millions)**

| <u>Line Item</u>    | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u><br><u>Base</u> | <u>FY 2012</u><br><u>OCO</u> | <u>FY 2012</u><br><u>Total</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>Cost To</u><br><u>Complete</u> | <u>Total Cost</u> |
|---------------------|----------------|----------------|-------------------------------|------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|-------------------|
| • O&M: (PE 0305103) | 14.626         | 14.675         | 14.703                        | 0.000                        | 14.703                         | 14.964         | 14.951         | 15.001         | 0.000          | Continuing                        | Continuing        |

**D. Acquisition Strategy**

All contracts will be awarded based on full and open competition.

**E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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|--|-----------------------------------|---|-------------------------------|---|-------------------|---------------------|-------------------|---|-------------------|----------------------|----------------------------|-------------------|---------------------------------|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force   |                                   |   |                               |   |                   |                     |                   |   |                   |                      | <b>DATE:</b> February 2011 |                   |                                 |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> |                                   |   |                               | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305103F: <i>Cyber Security Initiative</i> |                   |                     |                   | <b>PROJECT</b><br>671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i> |                   |                      |                            |                   |                                 |  |
| <b>Product Development (\$ in Millions)</b>  |                                   |   |                               | <b>FY 2011</b>  |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b>  |                   | <b>FY 2012 Total</b> |                            |                   |                                 |  |
| <b>Cost Category Item</b>  | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |  |
| Digital Forensic Tools   | C/FFP                             | General Dynamics:Lithicum, MD             | 1.992                         | 2.030   | Dec 2011          | 2.026               | Dec 2012          | -   |                   | 2.026                | Continuing                 | Continuing        | TBD                             |  |
| <b>Subtotal</b>  |                                   |   | 1.992                         | 2.030   |                   | 2.026               |                   | -   |                   | 2.026                |                            |                   |                                 |  |
| <b>Support (\$ in Millions)</b>  |                                   |   |                               | <b>FY 2011</b>  |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b>  |                   | <b>FY 2012 Total</b> |                            |                   |                                 |  |
| <b>Cost Category Item</b>  | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |  |
| <b>Subtotal</b>  |                                   |   | -                             | -   |                   | -                   |                   | -   |                   | -                    | 0.000                      | 0.000             | 0.000                           |  |
| <b>Test and Evaluation (\$ in Millions)</b>  |                                   |   |                               | <b>FY 2011</b>  |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b>  |                   | <b>FY 2012 Total</b> |                            |                   |                                 |  |
| <b>Cost Category Item</b>  | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |  |
| <b>Subtotal</b>  |                                   |   | -                             | -   |                   | -                   |                   | -   |                   | -                    | 0.000                      | 0.000             | 0.000                           |  |
| <b>Management Services (\$ in Millions)</b>  |                                   |   |                               | <b>FY 2011</b>  |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b>  |                   | <b>FY 2012 Total</b> |                            |                   |                                 |  |
| <b>Cost Category Item</b>  | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>   | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |  |
| <b>Subtotal</b>  |                                   |   | -                             | -   |                   | -                   |                   | -   |                   | -                    | 0.000                      | 0.000             | 0.000                           |  |
|  |                                   |   | <b>Total Prior Years Cost</b> | <b>FY 2011</b>  |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b>  |                   | <b>FY 2012 Total</b> | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |  |
| <b>Project Cost Totals</b>   |                                   |   | 1.992                         | 2.030   |                   | 2.026               |                   | -   |                   | 2.026                |                            |                   |                                 |  |
| <b>Remarks</b>   |                                   |   |                               |   |                   |                     |                   |   |                   |                      |                            |                   |                                 |  |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Air Force  |   | <b>DATE:</b> February 2011                                      |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305103F: <i>Cyber Security Initiative</i> | <b>PROJECT</b><br>671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i> |
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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force   |   |   | <b>DATE:</b> February 2011 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0305103F: <i>Cyber Security Initiative</i> | <b>PROJECT</b><br>671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i> |                            |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| Develop software tools                              | 1       | 2010 | 2       | 2014 |
| Evaluate software using digital evidence processing | 1       | 2010 | 2       | 2013 |

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