Department of Homeland Security

U.S. Federal Government

DNSSEC .GOV Uptake

17 October 2012

Val Stoyanov

Federal Network Security
*Compliance and Assurance
Program*
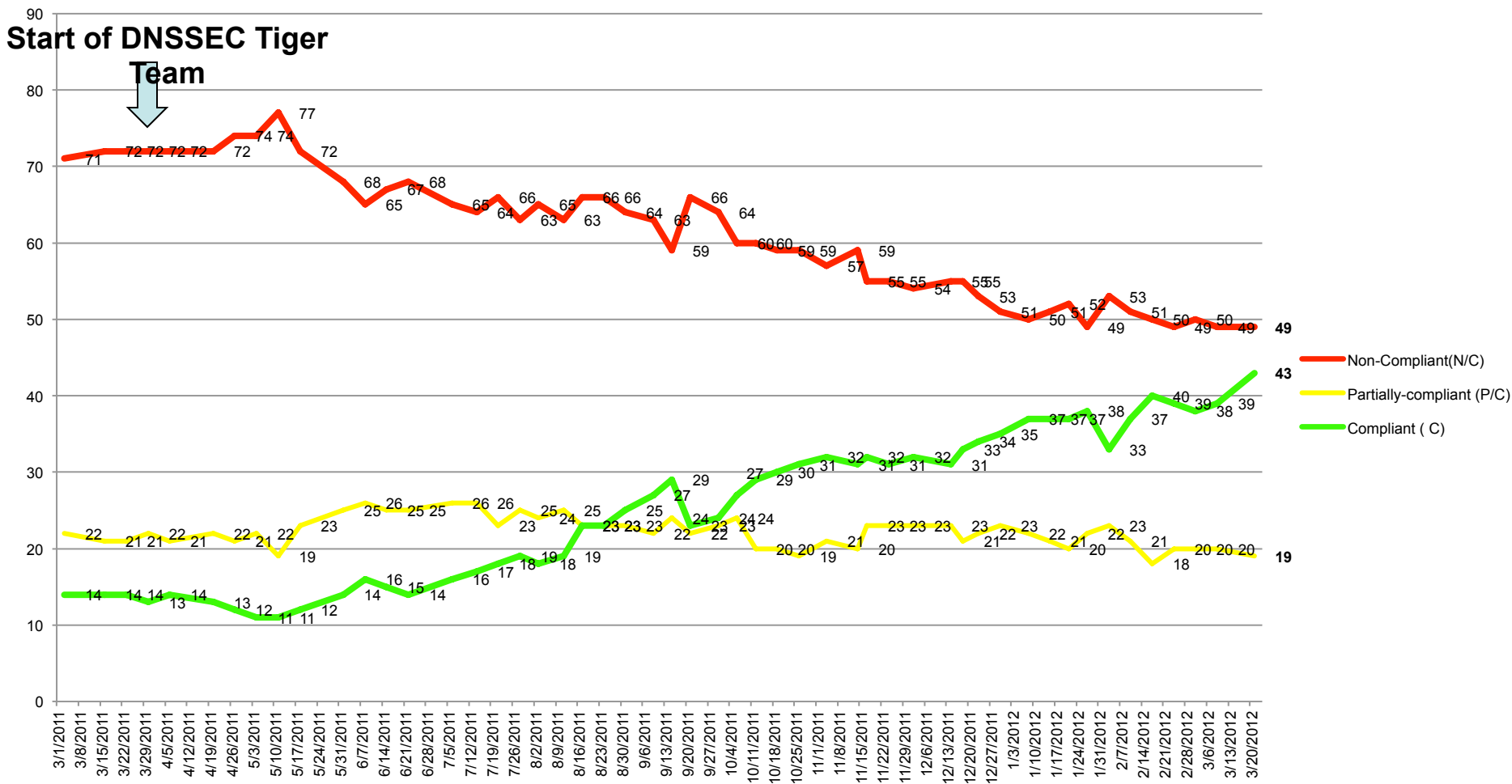
Homeland
Security

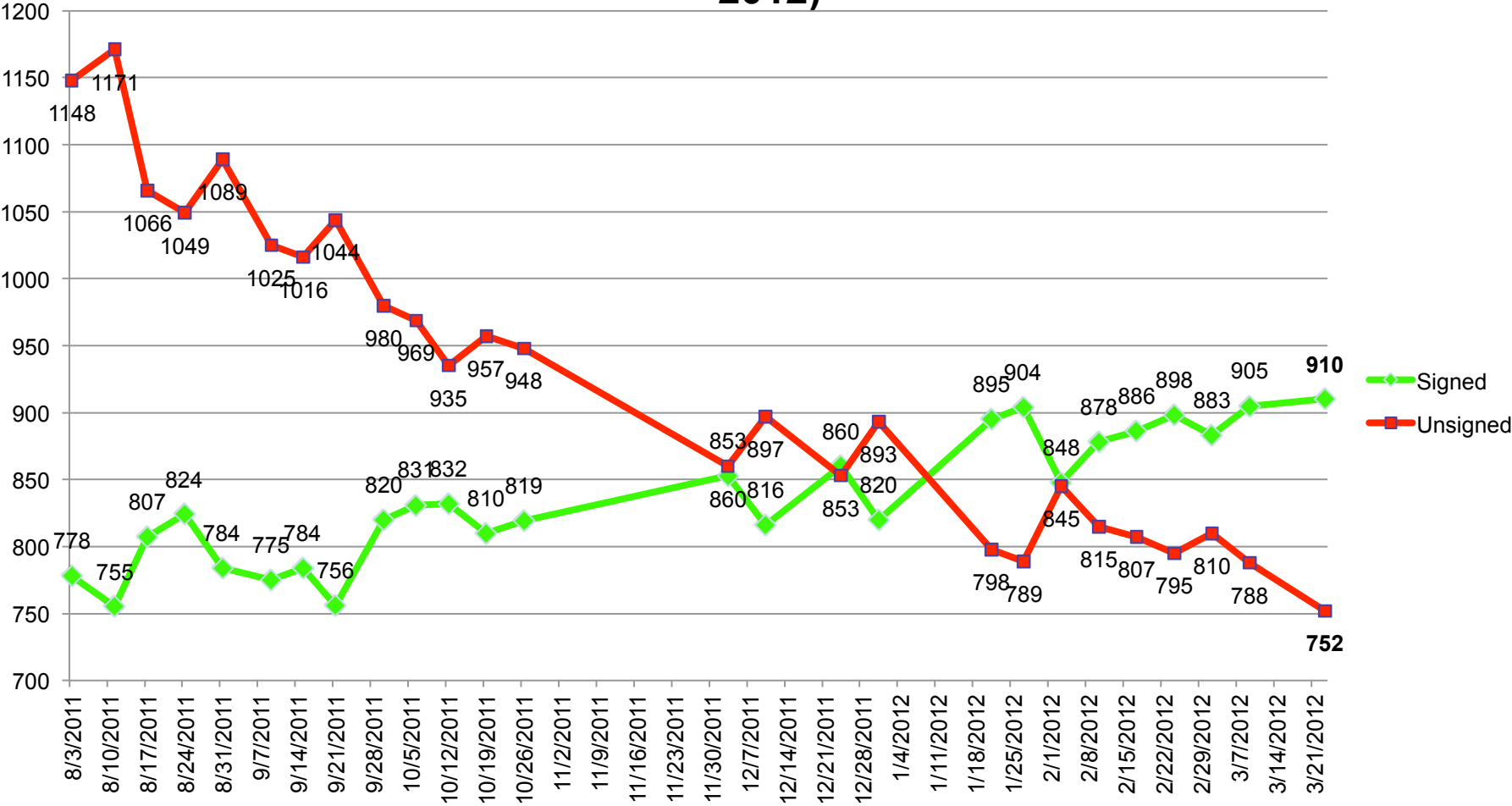**Federal Network Security**
Connecting Vision to Strategy

DNSSEC Compliance Trend for all <u>Federal Agencies</u> (March 2011 – March 2012)

Start of DNSSEC Tiger Team

Legend:
- Non-Compliant(N/C)
- Partially-compliant (P/C)
- Compliant (C)

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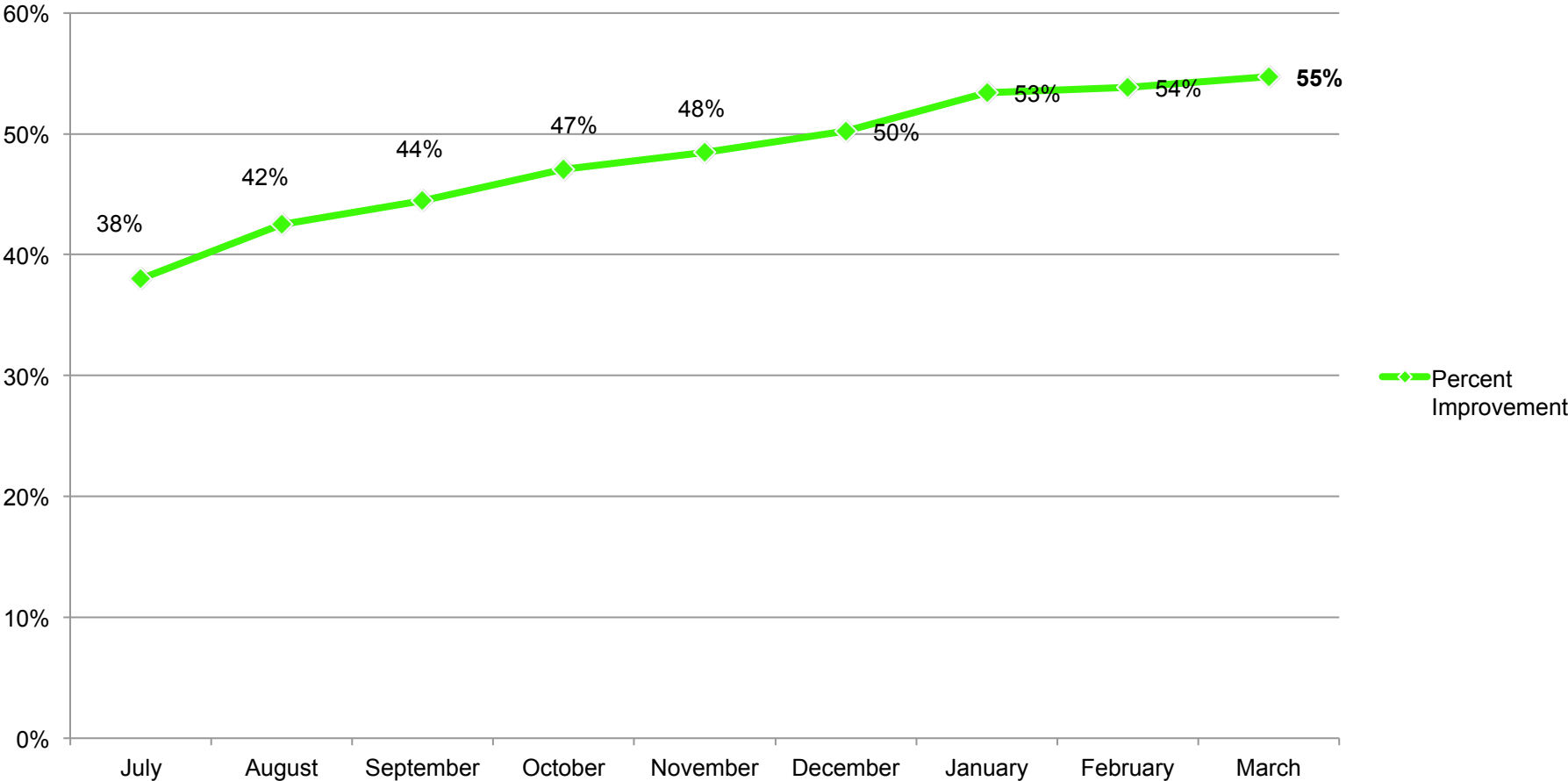*Connecting Vision to Strategy*

DNSSEC .GOV UPTAKE

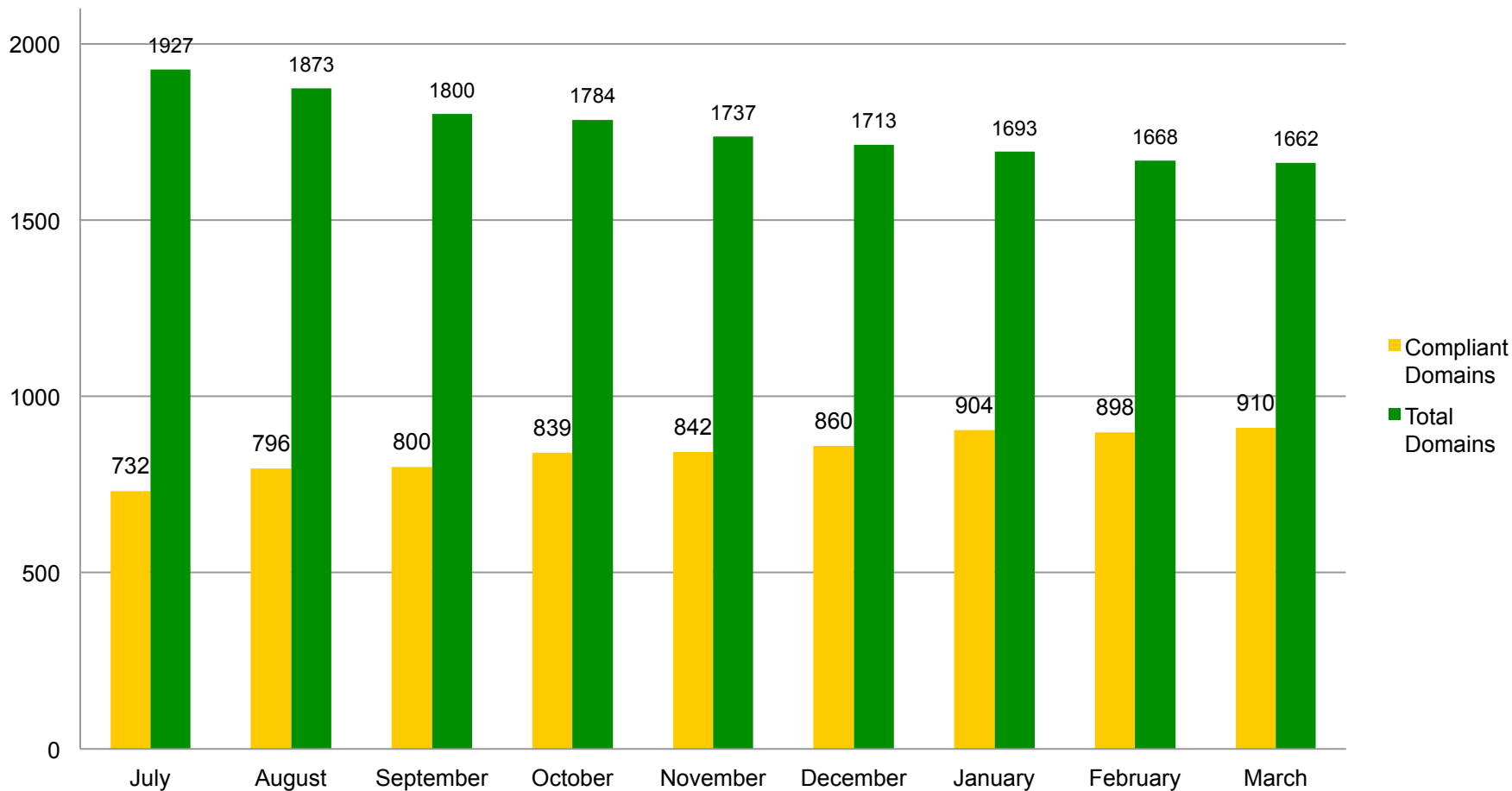**DNSSEC Compliance Trend for all Federal <u>.GOV Domains</u> (August 2011 – March 2012)**

DNSSEC .GOV UPTAKE

DNSSEC Improvement Trend (July 2011- March 2012)
Number of Compliant vs. Total Number of Domains

Line chart showing Percent Improvement by month: July 38%, August 42%, September 44%, October 47%, November 48%, December 50%, January 53%, February 54%, March 55%.

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DNSSEC VALIDATION

Total vs. Compliant DNSSEC Domains (July 2011 – March 2012)

Legend:
- Compliant Domains (yellow)
- Total Domains (green)

Month	Compliant Domains	Total Domains
July	732	1927
August	796	1873
September	800	1800
October	839	1784
November	842	1737
December	860	1713
January	904	1693
February	898	1668
March	910	1662

Summary of DNSSEC .GOV Uptake
(April 2011 – March 2012)

- **36% increase** in the number of **compliant Agencies**.

- **40% increase** in the number of **compliant domains**.

- **43% decrease** in the number of **non-compliant domains**.

- **$25,625 saved** due to elimination of 205 **unused domains**.

DNSSEC Tiger Team
An example of DHS continuous monitoring initiative which demonstrated the advantages of enhanced visibility, accountability, continuous monitoring and remediation.

QUESTIONS?