How to Best Protect Against Future Cyber Incidents

OMB Cyber and National Security Unit

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OMB Cyber Vision and Mission

- **Vision**: Reduce the number of cyber incidents where sensitive government information is compromised.

- **Mission**: Strengthen Federal cybersecurity through:
  1) Data-driven, risk-based oversight of agency and government-wide cybersecurity programs;
  2) Issuance and implementation of Federal policies consistent with emerging technologies and evolving cyber threats; and
  3) Oversight of the government-wide response to major cyber incidents and vulnerabilities to ensure appropriate mitigation measures are effectively implemented.

Recent Highlights

- Cybersecurity Sprint Successes
- 14 CyberStats in FY 2015
- Initiated FISMA Modernization implementation efforts
- Improving Cybersecurity Protections in Federal Acquisitions
- Circular A-130

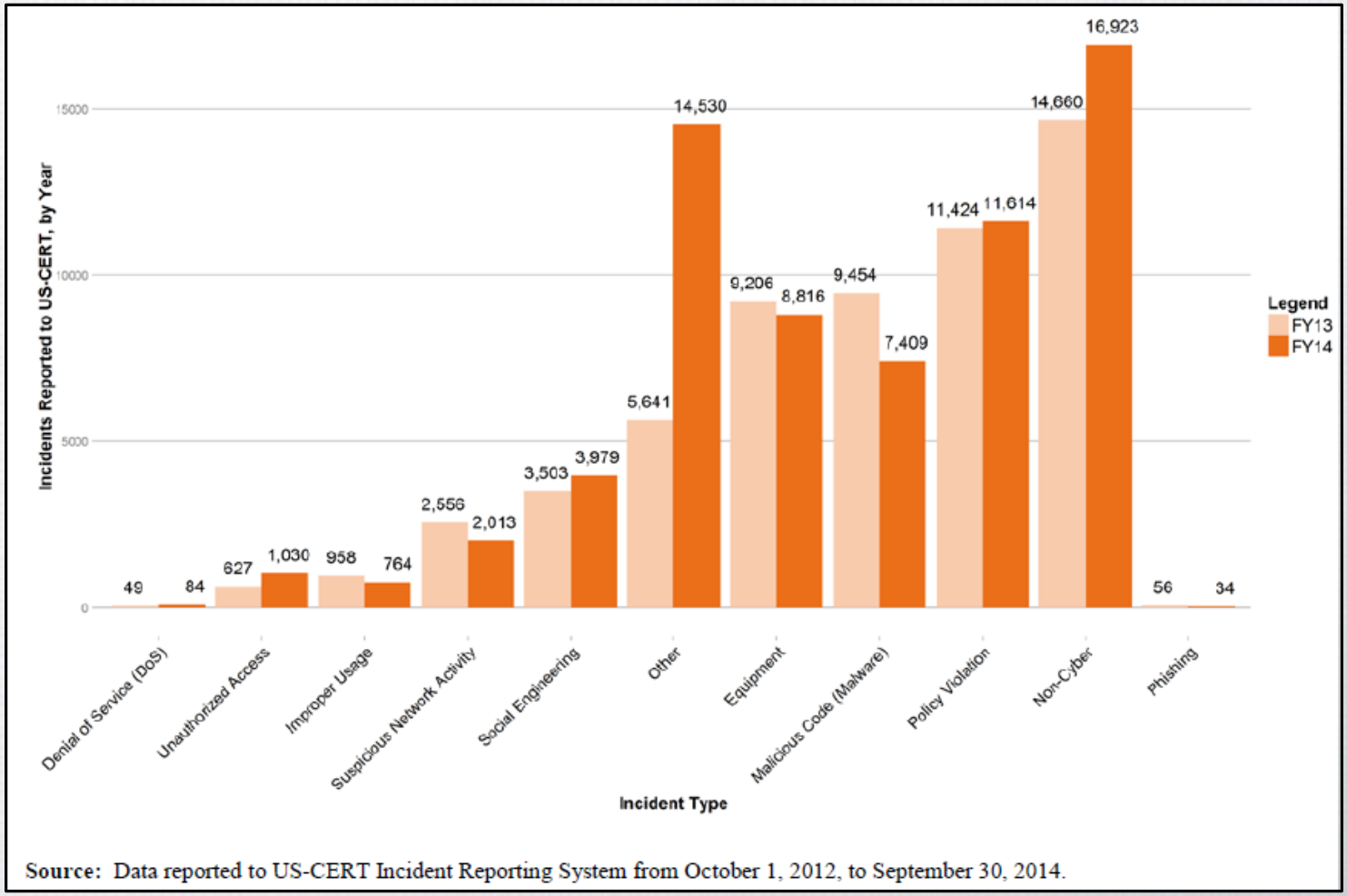
FY 2014 Incidents

- The number of information security incidents reported to US-CERT increased approximately 15% from FY 2013 to FY 2014
- Increase in total information security events as well as enhanced capabilities to identify, detect, respond, and recover from these incidents
- FY 2014: **52%** of Federal civilian cybersecurity incidents **related to or could have been prevented by Strong Authentication implementation**

Reporting Source	Total Number of Incident Reports
Federal Government Total	69,851
Federal Government: CFO Act	67,196
Federal Government: Non-CFO Act	2,655
Non-Federal	570,371
TOTAL	**640,222**

Source: FY 2014 OMB FISMA Report

CFO Act Agency Incidents

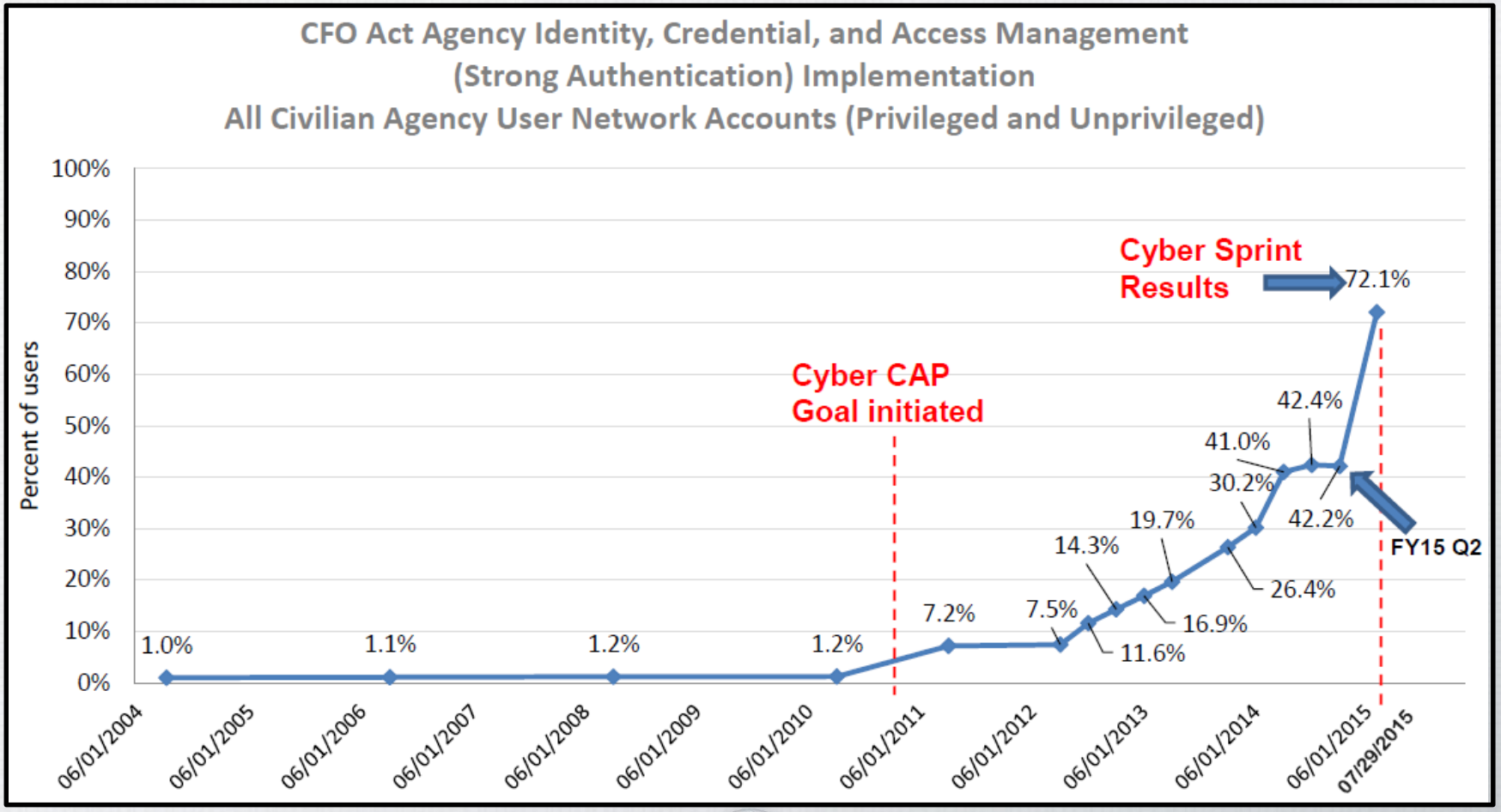


Source: Data reported to US-CERT Incident Reporting System from October 1, 2012, to September 30, 2014.

Cybersecurity Sprint Immediate Actions

- Scan networks for Indicators of Compromise (IOCs)
- Patch critical vulnerabilities without delay
- Tighten policies and practices for privileged users
- Implement Personal Identity Verification (PIV) cards for network access, especially for privileged users
- Identify high value assets and review corresponding security protections

Strong Authentication



Source: Agency reported data via CyberScope

Cybersecurity Sprint Strategy and Implementation Plan (CSSIP)

- **Prioritized Identification** and **Protection** of high-value information and assets
- **Timely Detection** and **Rapid Response** to cyber threats
- **Rapid Recovery** from incidents when they occur and accelerated adoption of lessons learned from these events
- **Retention** and **Recruitment** of the most highly-qualified cybersecurity workforce talent the Federal government can bring to bear
- **Efficient and Effective Acquisition** and **Deployment** of **Existing** and **Emerging Technology**

NIST CSSIP Collaboration

- OMB/NIST work on Cyber Sprint Strategy and Implementation Plan (CSSIP)
  - Existing and Emerging Technology (NCCOE)
  - Recovery Guidance
  - Cyber workforce mapping (NICE)
  - Assist agencies with standards/guidelines implementation

Upcoming Policies

- Cybersecurity Sprint Strategy and Implementation Plan (CSSIP)
- FY 2016 FISMA Guidance
- FY 2016 FISMA Metrics
- Improving Cybersecurity Protections in Federal Acquisitions
- Circular A-130
- ICAM Policy Updates

Questions?