

Mature PSIRTs Need Mature Tools

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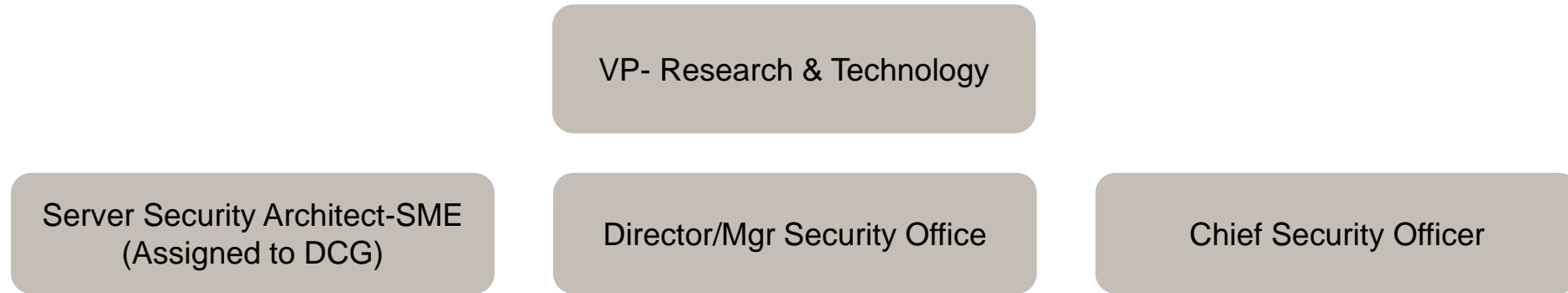
PSIRT Program Manager, Product Security Office
Lenovo USA, Morrisville, North Carolina

Bio: Beverly Finch

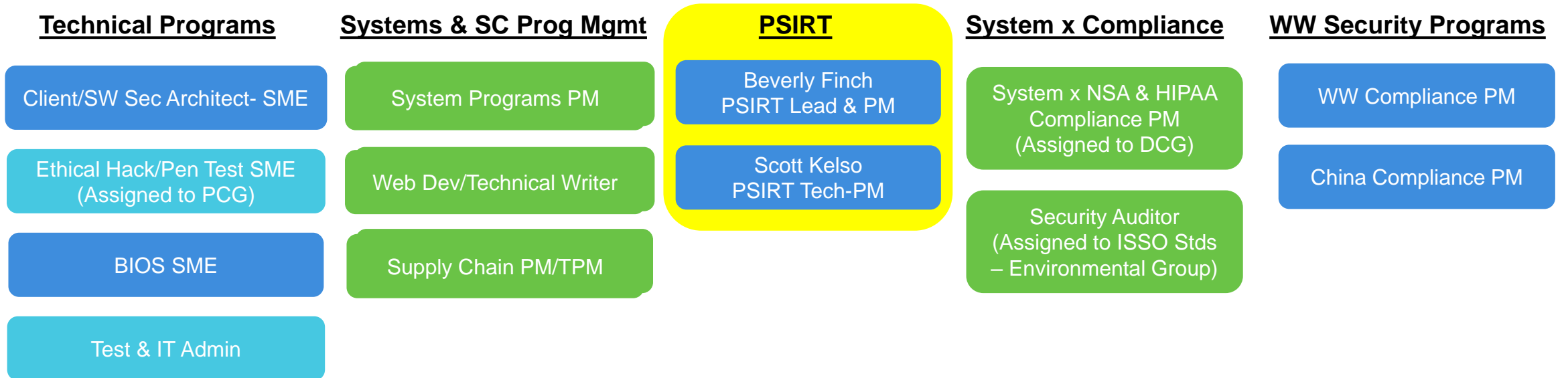
PSIRT Program Manager

- Executive Project Manager (20+ years PMI Certified)
- Lean Six Sigma
- Launched Lenovo PSIRT, 2014
- MITRE CVE Board
- FIRST.org Member
- FIRST PSIRT Framework Working Group
- Chair, Vendor SIG

Product Security Organization



Security Office



Product Security Incident Response Team (PSIRT)

Milestones

- 2014: Established, permanently staffed
- 2015: Admitted to FIRST
 - Sponsored by Cisco, Intel
- 2016: CVE Numbering Authority



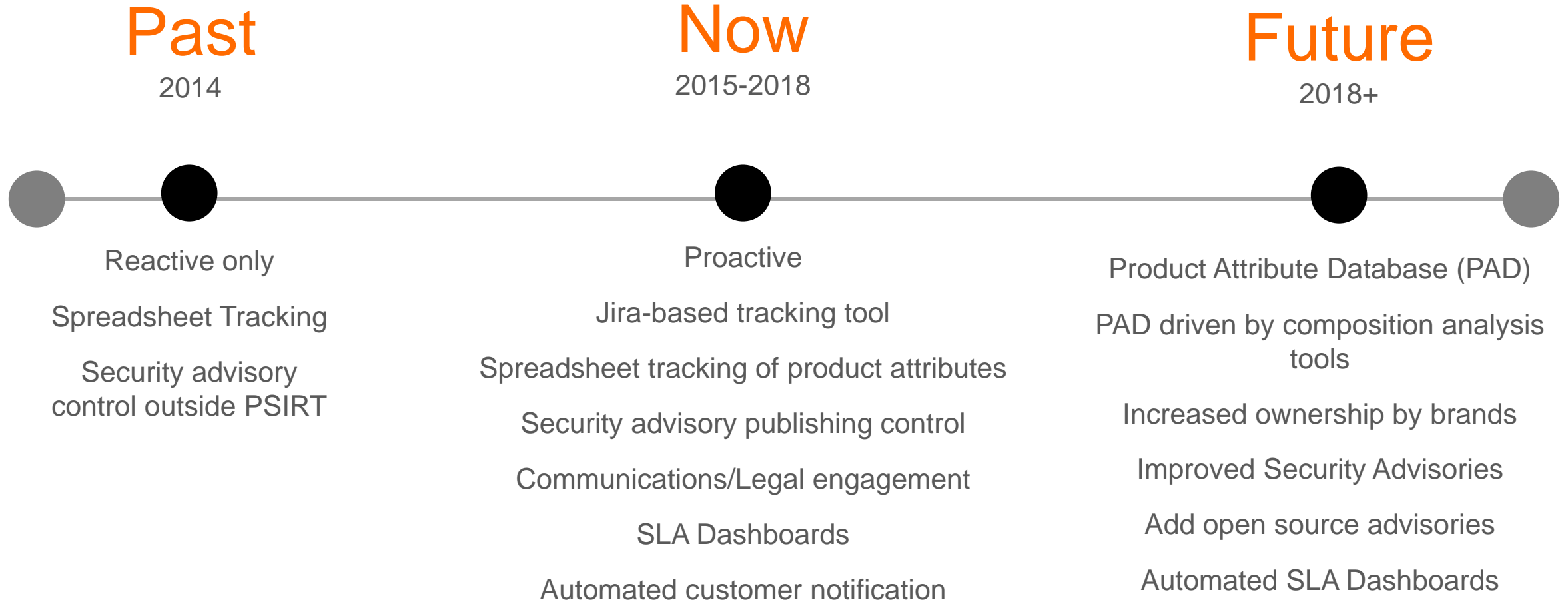
Objectives

- Respond to product vulnerability reports
- Coordinate with business units and industry to ensure clear direction and communication
- Negotiate disclosure timelines and plans with researchers and coordination centers
- Drive remediation
- Support customers by publishing product security advisories
- Engage with external PSIRTs to establish and promote best practices around security vulnerability handling

Resource:
PSIRT

- Contact: psirt@lenovo.com
- Advisories: https://support.lenovo.com/us/en/product_security/home

Lenovo PSIRT Evolution



Tooling Concerns

What products do we support?

What is included in our products?

What open source do we use?

Targeted case assignment

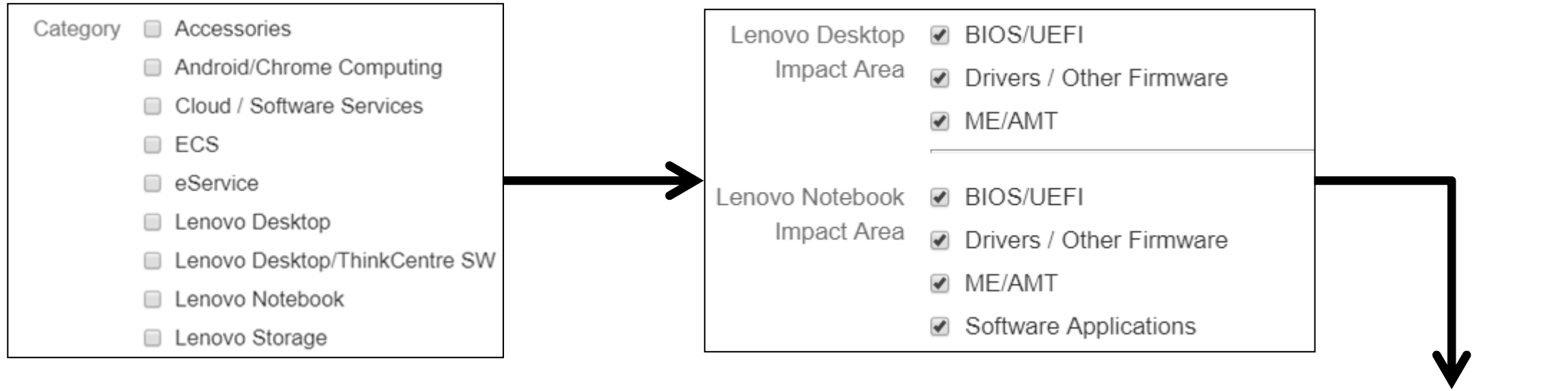
Advisory preparation

SLA Tracking

Customer notification



Current – Creating a Case



Sub-Tasks	Progress
1. Test - Lenovo Desktop BIOS/UEFI	 CLASSIFY
2. Test - Lenovo Desktop - Drivers / Other Firmware task	 CLASSIFY
3. Test - Lenovo Desktop - ME/AMT task	 CLASSIFY
4. Test - Lenovo Notebook - BIOS/UEFI task.	 CLASSIFY
5. Test - Lenovo Notebook- Drivers / Other Firmware task	 CLASSIFY
6. Test - Lenovo Notebook - ME/AMT task	 CLASSIFY
7. Test - Lenovo Notebook Software Applications - Lenovo task	 CLASSIFY

Future – Creating a Case

Summary*

CVSS

Priority ↓ Medium

Attributes

Attributes

glibc bios ME Linux_kernel Nvidia graphics

BMC fingerprint Phoenix openssl

Intel graphics AMI System Update audio

Solution

1

Product Attribute Database

Inventory of all supported products and their attributes

Links products to supported components and open source/third party code to components

2

Improved Jira Workflows

SLAs built in

3

Automated Product tables for Security Advisories

Filters generate product tables for advisories

4

'Button Push' SLA Metrics and Notifications

Improved SLA reporting capabilities

thanks.

Different is better

Lenovo™