



BALABIT
CONTEXTUAL SECURITY INTELLIGENCE

SHELL CONTROL BOX

Best-of-breed Privileged User Monitoring

AGENDA

ABOUT BALABIT

SECURITY THREATS BY HUMANS

USER MONITORING BY BALABIT

USE CASES

TARGET CUSTOMERS

BENEFITS

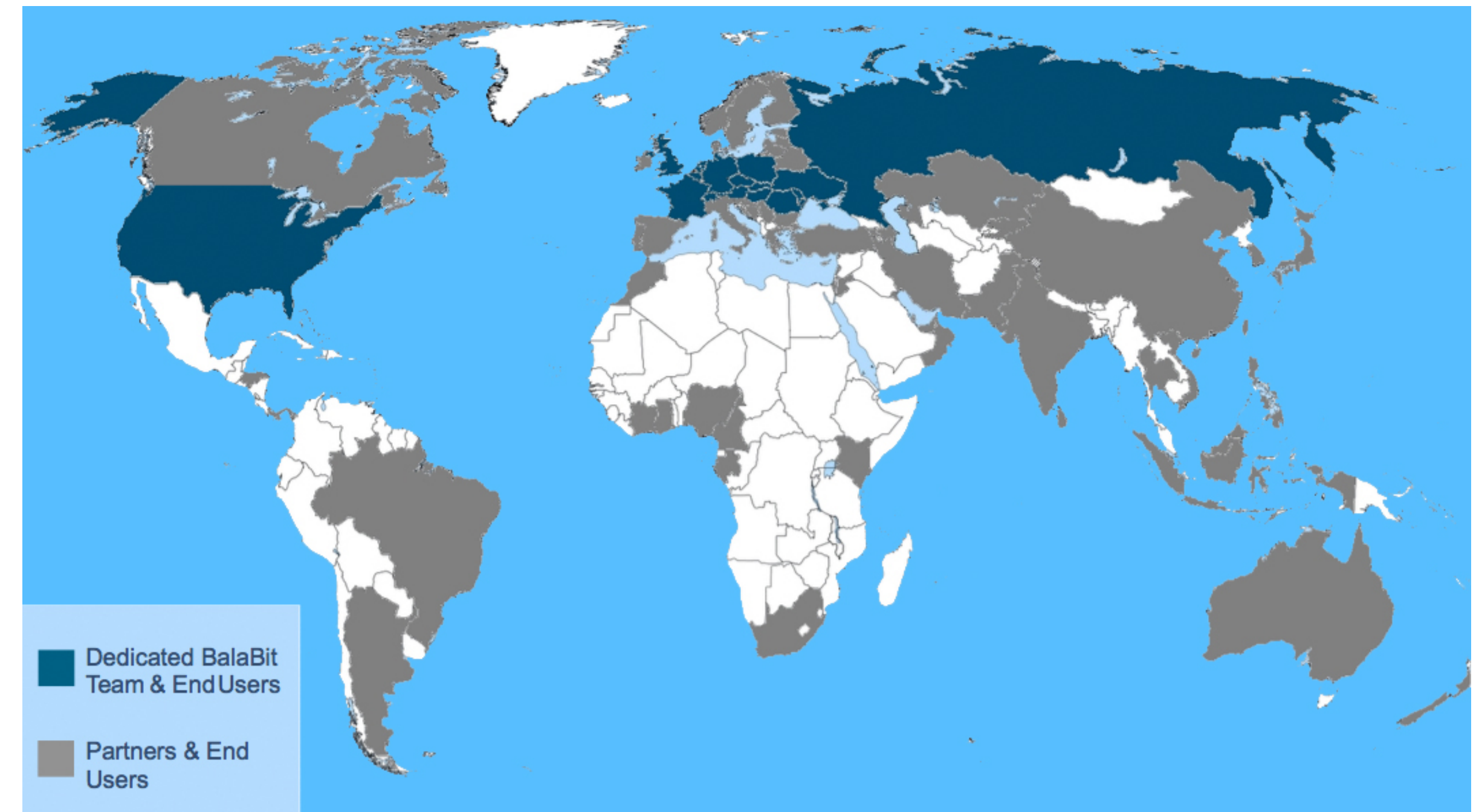


BALABIT

Leading Provider of Contextual Security Intelligence

Global technology lead in

- Log Management
syslog-ng
- Privileged User Monitoring
Shell Control Box
- User Behavior Analytics
Blindspotter



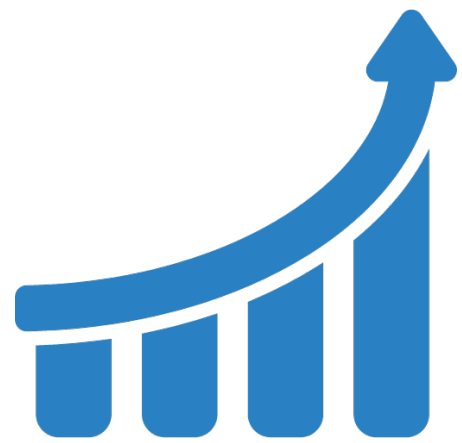
BALABIT

Key Facts



EXPERTISE

- 15 years in IT security



GROWTH

- 30% avg. revenue increase



RECOGNITION

- More than 1 Million installations



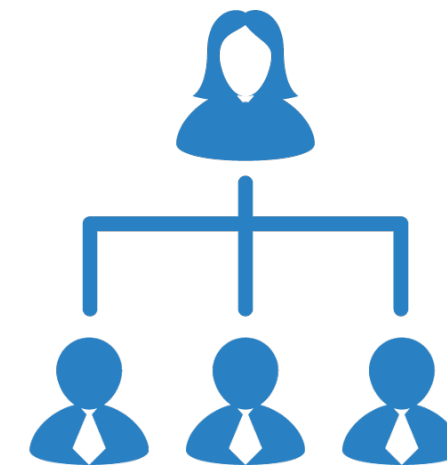
CLIENTS

- More than 1300 clients



REFERENCES

- 23 of Fortune100



CHANNEL

- More than 100 partners

REFERENCE CUSTOMERS

TELCO



IT



FINANCE



OTHER INDUSTRIES



PARTNERSHIPS



AWARDS & CERTIFICATIONS

Blindspotter

Shell Control Box

CSI Suite



ENTERPRISES IN INCREASING TROUBLE

Cyber-threats Caused by Humans

BREACHES CONTINUE...

Success for APT depends
on **privileged account**
hijacking

Retail giant Target confirmed that credit and debit card information for 40 million of its customers had been compromised. ” – [New York Times](#)

The CEO and CIO left the company

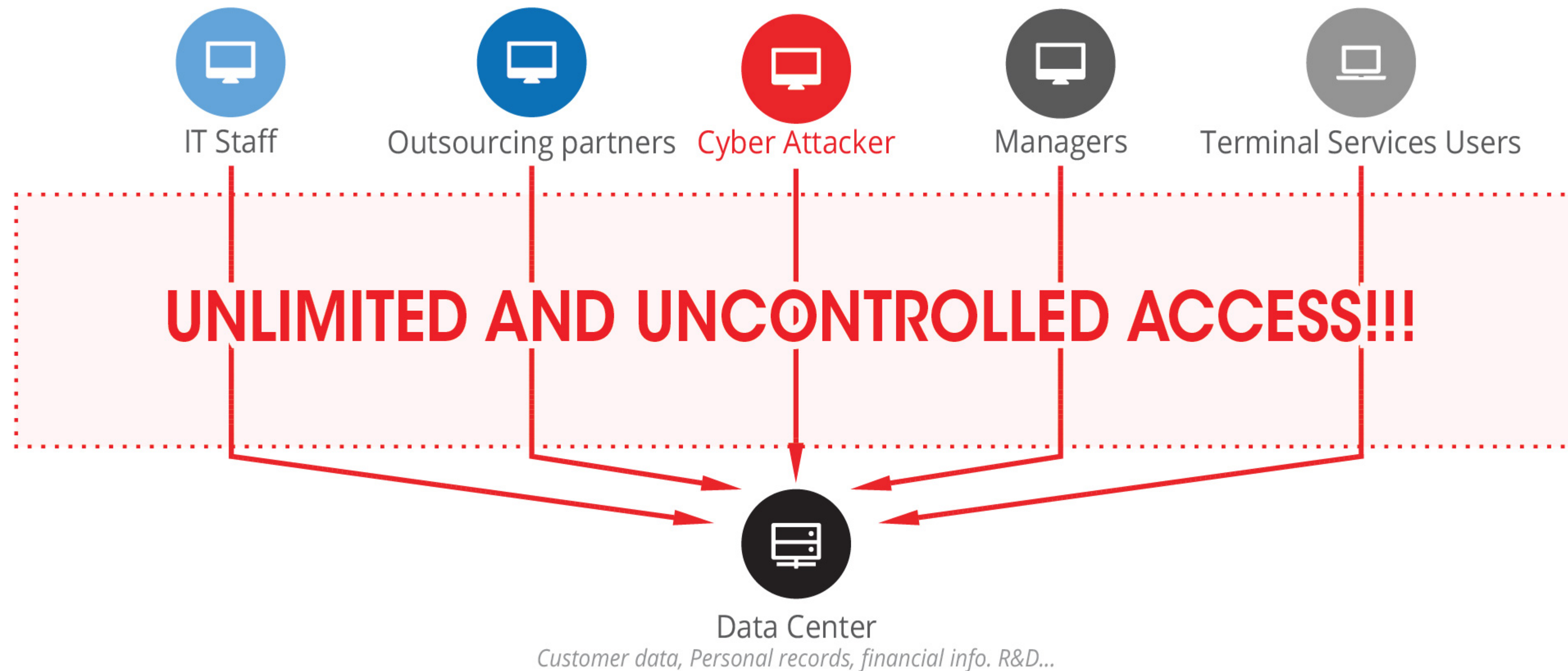
Sony Pictures Entertainment has been targeted by computer hackers in an attack which reports say forced it shut down its systems... – [BBC](#)

Costs estimated at \$15-35 M and growing

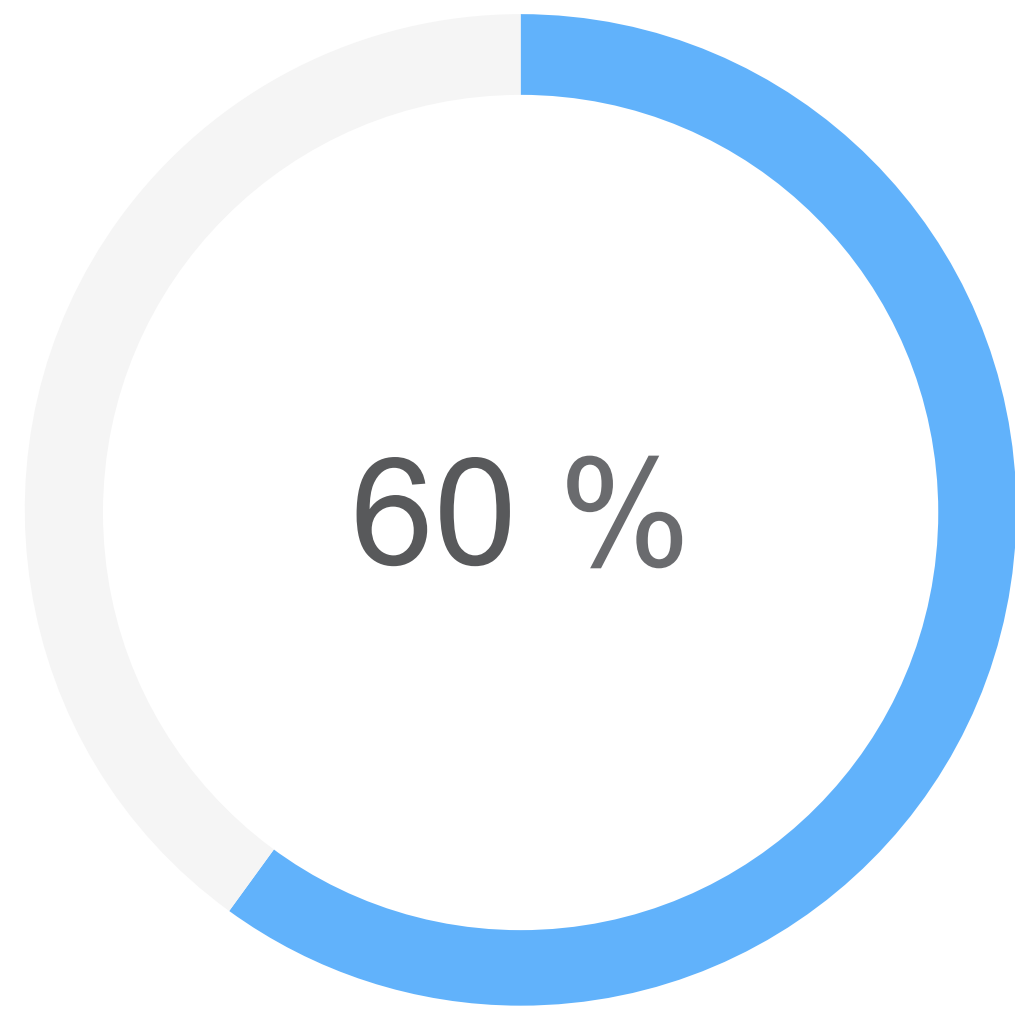
Office on Personnel Management government data breach impacted 21.5 million people – [CNN](#)

Director resigned

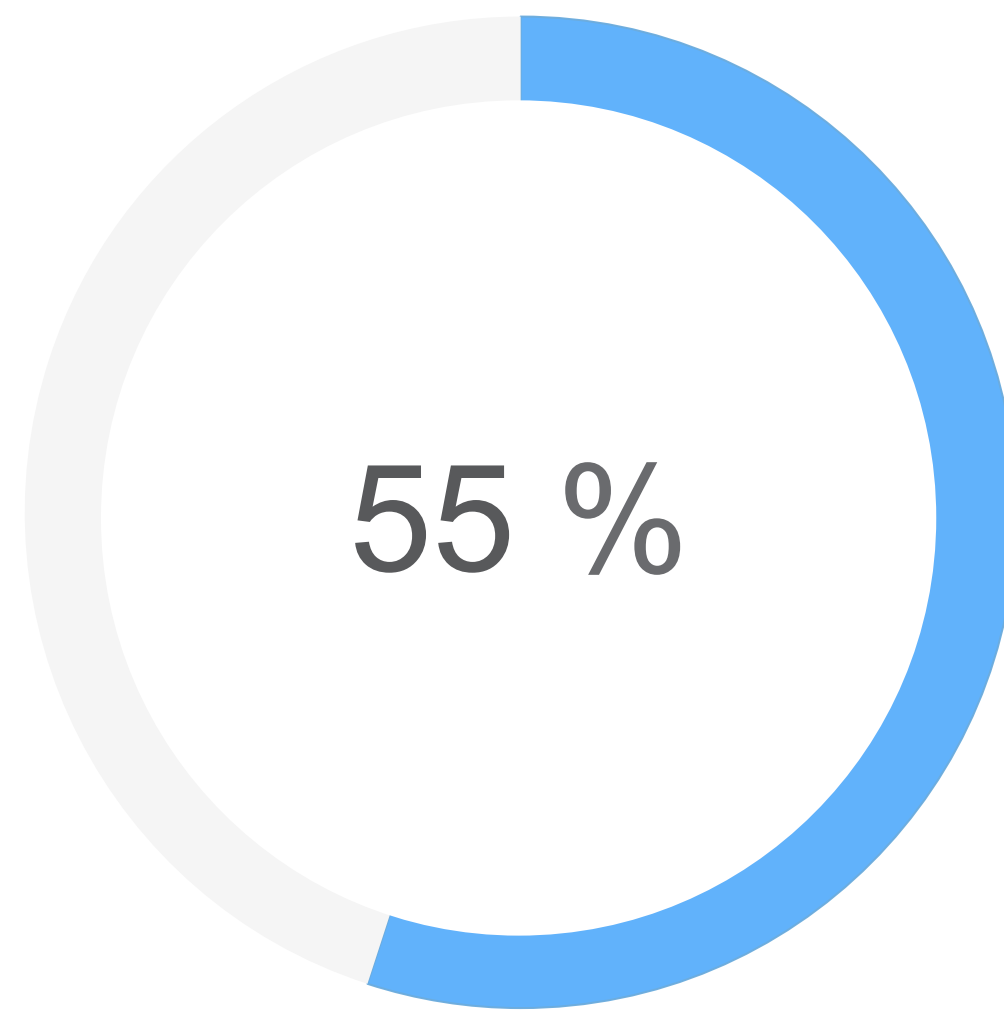
UNFETTERED ACCESS OF PRIVILEGED USERS...



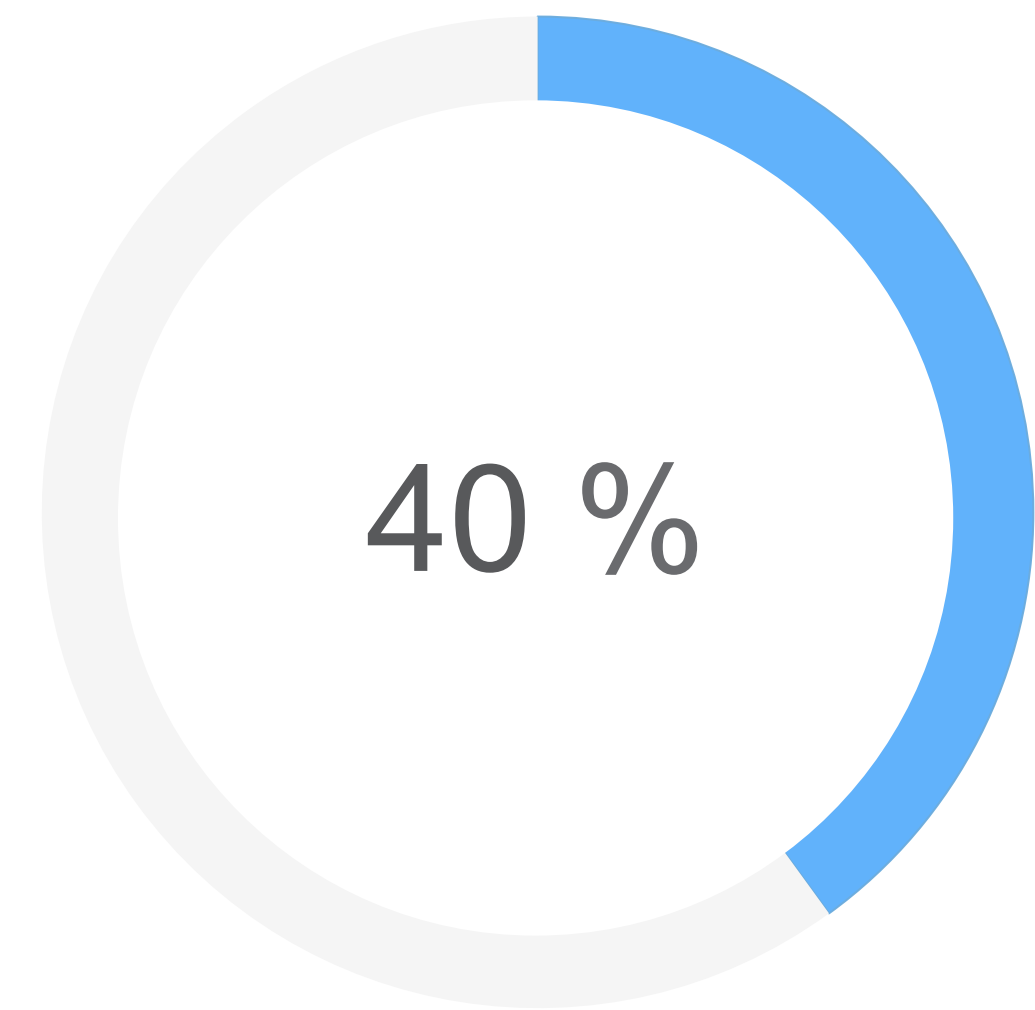
PRIVILEGED ACCOUNT MISUSE



Incidents
by
SYSTEM ADMINS



Internal misuse
by
PRIVILEGE ABUSE



Top threat actions
by
STOLEN CREDENTIALS

COMPLIANCE PRESSURE FOR MONITORING USERS

ISO 2700X

PCI DSS

**SOX/
COBIT**

**ISAE 3402
/ SAS 70**

**LOCAL
LAWS**

**EU
DIRECTIVES**

**GPG,
FISMA,
HIPAA,
JSOX,
etc**

The background is a solid blue color with a complex network of thin, light blue lines and dots, resembling a molecular or data network structure. On the right side, there are several geometric shapes, including a large triangle and a circle, with some lines extending from them. A small white plus sign is visible in the bottom right corner.

LIMITATIONS OF „TRADITIONAL” APPROACHES

CONVENTIONAL APPROACHES TO IT SECURITY

- Build layers of access controls, policies and walls
- Use predefined patterns and rules to prevent access
- Restrict users and business agility



TRADITIONAL SOLUTIONS' BOTTLENECKS

1

FIREWALLS

No granular access control

Admins & APTs* can bypass FWs

2

LOGGING/SIEM* PRODUCTS

Several types of events are not logged!

Difficult to understand

Admins (or attackers) can delete the logs!

3

Password managers

Complex and costly systems

No answer to „who did what?“

...These solutions are NOT Enough!

CONTEXTUAL SECURITY INTELLIGENCE (CSI)

Prevent data breaches without constraining business

MOVE FROM PREVENTATIVE TO CONTEXTUAL SECURITY

- Monitor User Activity
- Baseline business-as-usual using machine learning
- Discover unknown threats based on deviation from the norm and risk in real-time
- Investigate and Respond immediately

Trust, but verify!



CONTEXTUAL SECURITY INTELLIGENCE SUITE

The Problem

Vast amount of data

Access and monitoring

Not asked and not known

CSI.DATA

CSI.USER

CSI.RISK

Enriched Data Platform

The User Perspective

Behavioural Analytics

The Solution

- Instant access to activity data
- Transparent session monitoring
- Real-time data delivery
- Centralized data collection
- Filtering, normalization & enrichment

- Drill down into CSI.DATA for deeper understanding
- Video replay & search in user recordings
- Integrate contextual information into a single profile
- Visualize normal behaviour

- Machine learning of activities
- Risk scoring and alerting
- Discovery of anomalous behavior
- Real-time intervention

BALABIT SHELL CONTROL BOX

Best-of-breed Solution for Privileged User Monitoring

SHELL CONTROL BOX

Privileged User Activity Monitoring

Controls

privileged access to remote servers

Prevents

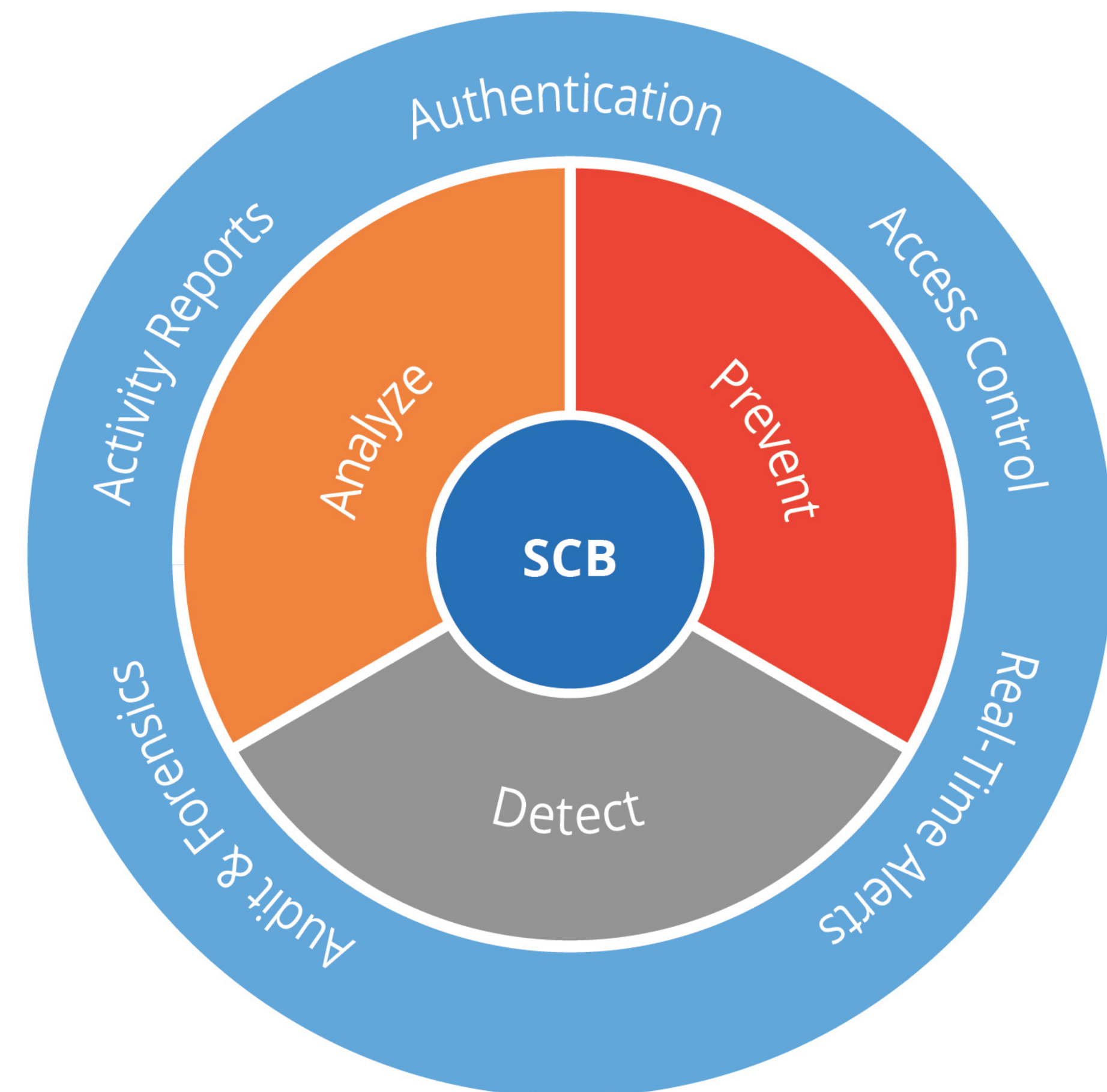
malicious actions

Records

activities into movie-like audit trails

Reports

actions for compliance and/or
decision support reasons



„REAL-LIFE” EXAMPLES



Access Control

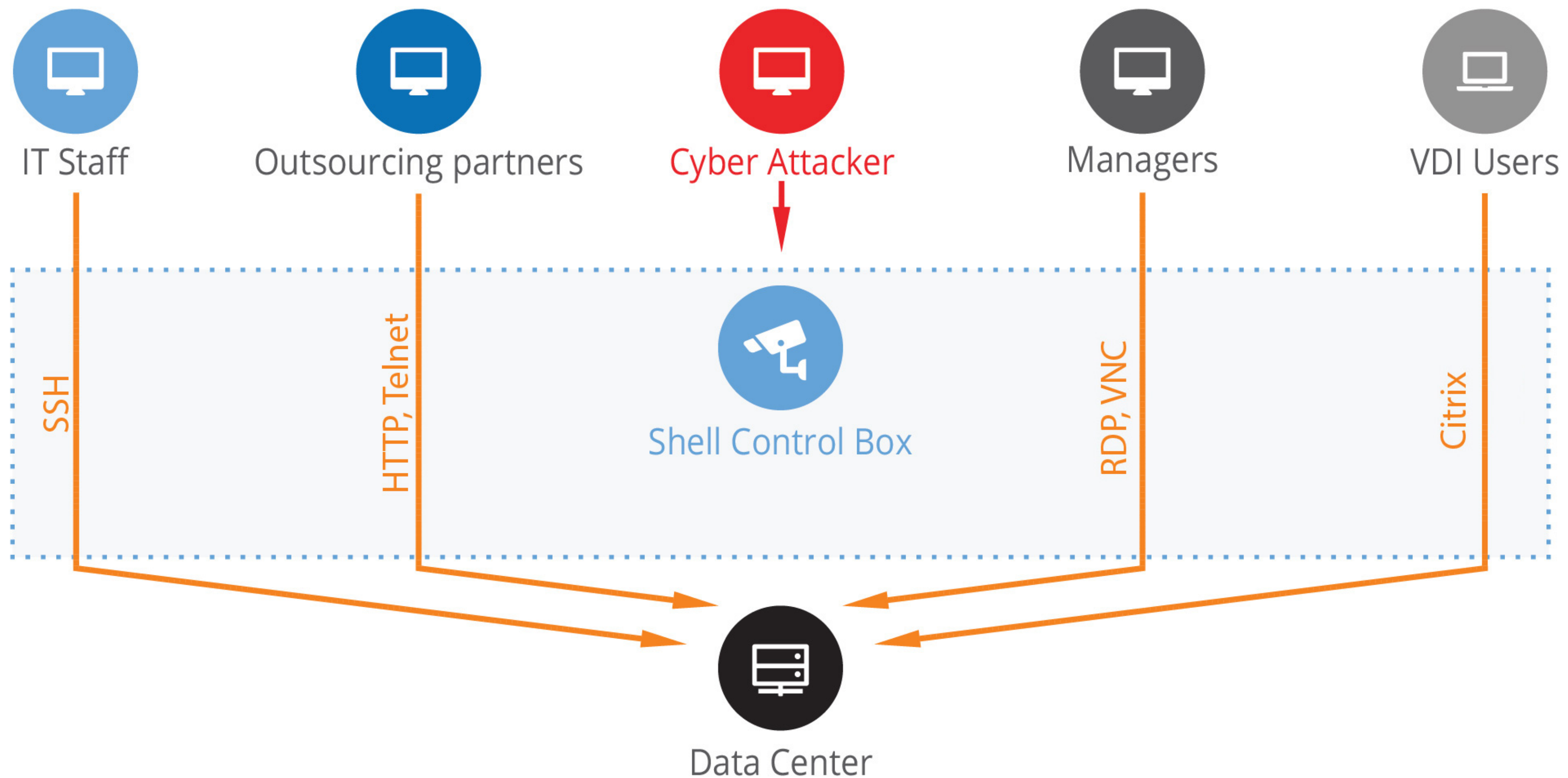


Monitoring

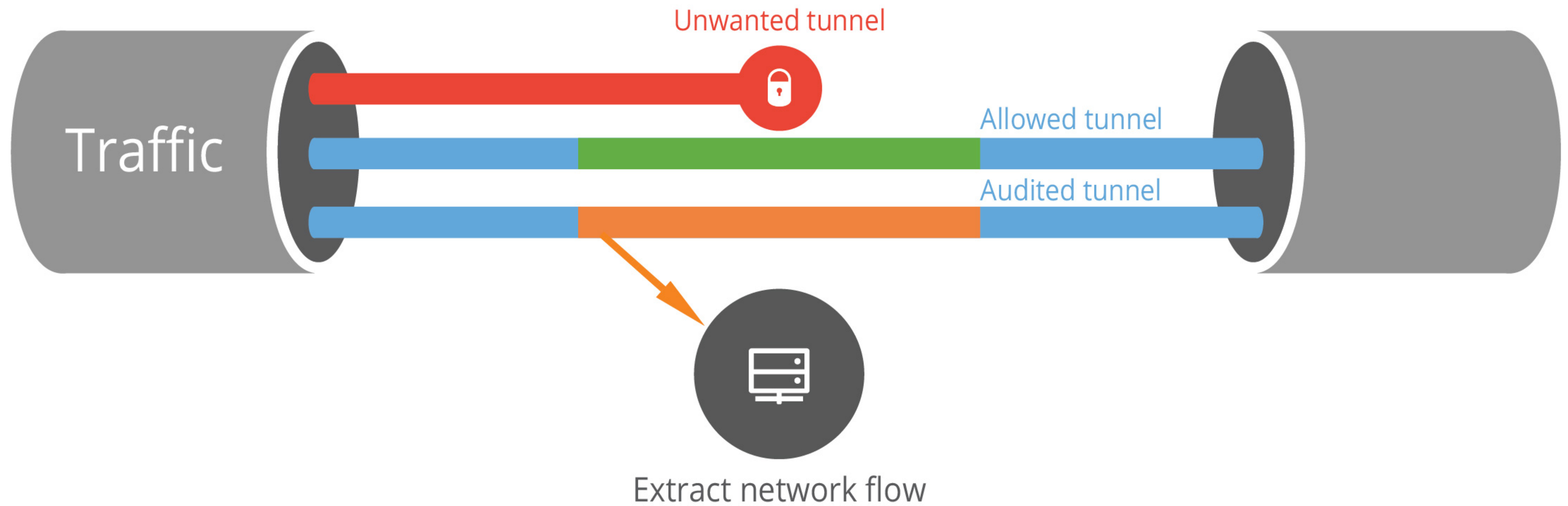


Tamper-proof Recording

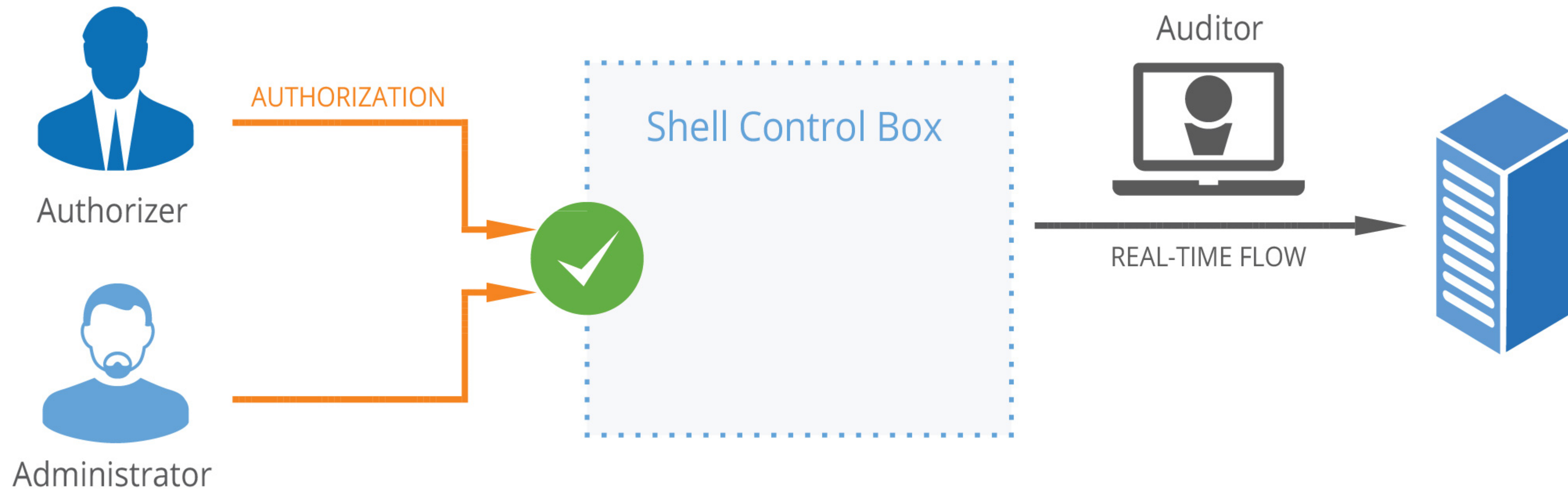
TURNKEY, INDEPENDENT AND TRANSPARENT AUDITING



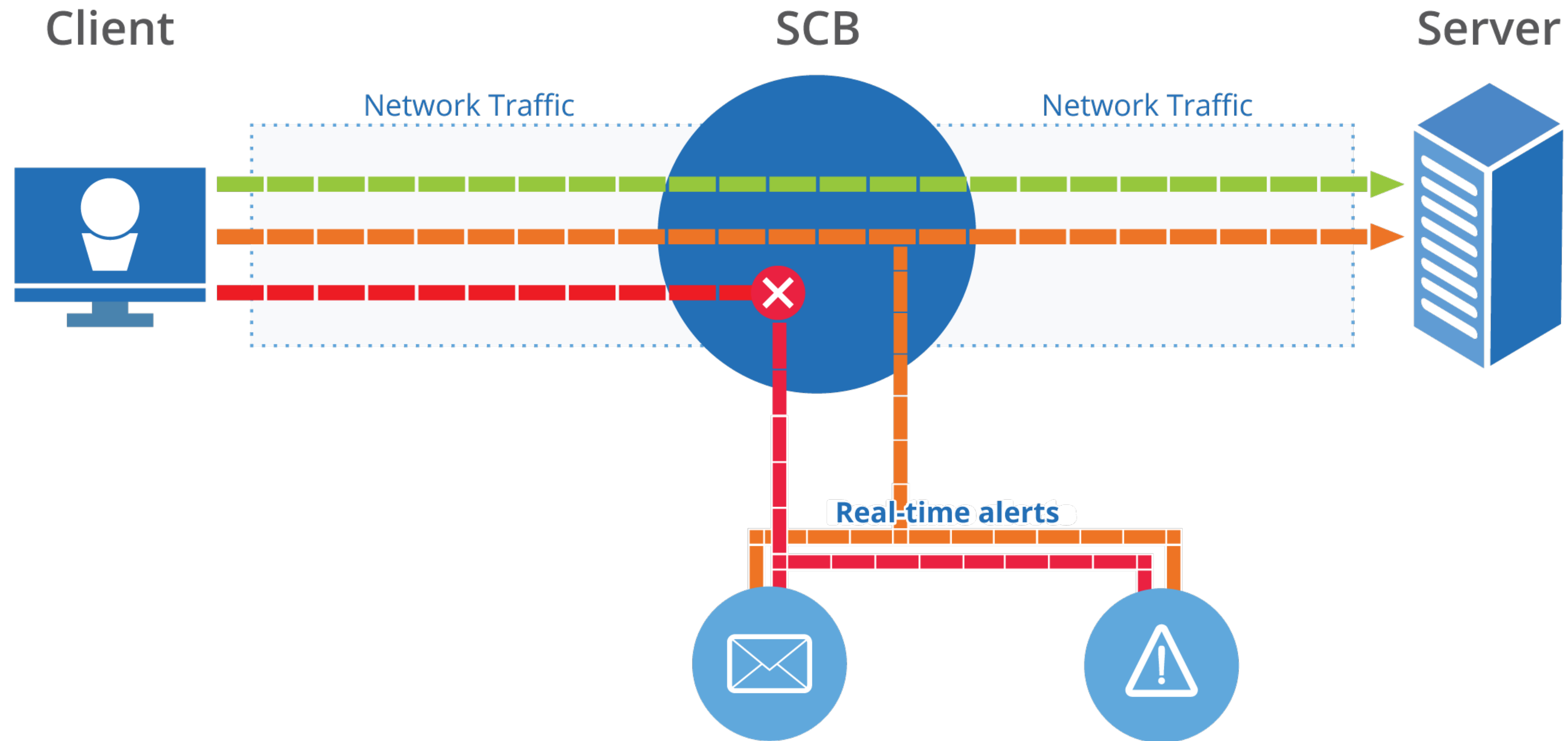
GRANULAR ACCESS CONTROL



4-EYES AUTHORIZATION & REAL-TIME MONITORING



REAL-TIME PREVENTION OF MALICIOUS ACTIVITIES



Prevent malicious actions not just record!

FAST IT TROUBLESHOOTING & FORENSICS

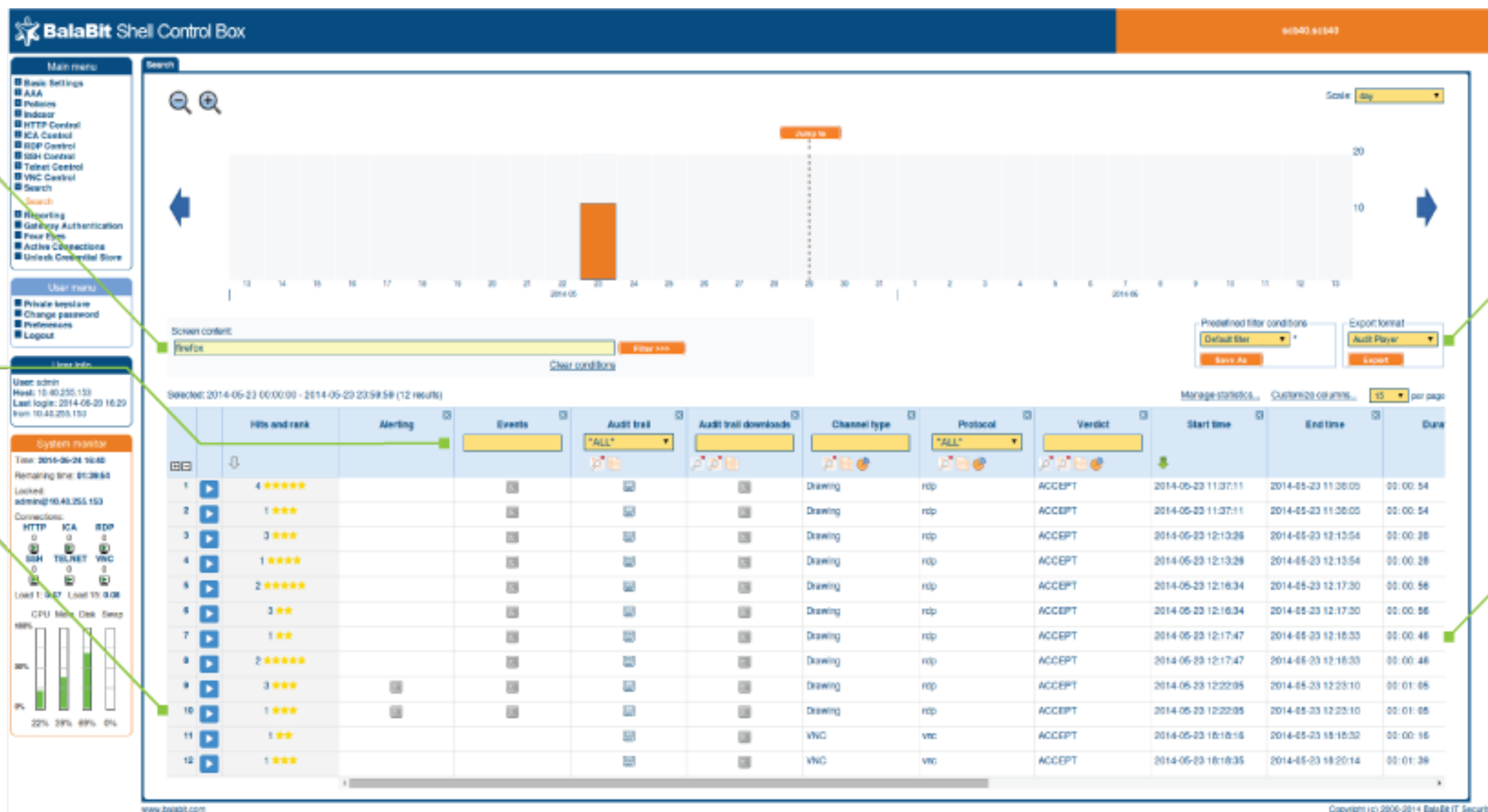
Free-text search in audited data

Quick Filtering to find incidents

Hits count & ranking

Export data for further analysis

Full metadata about connections



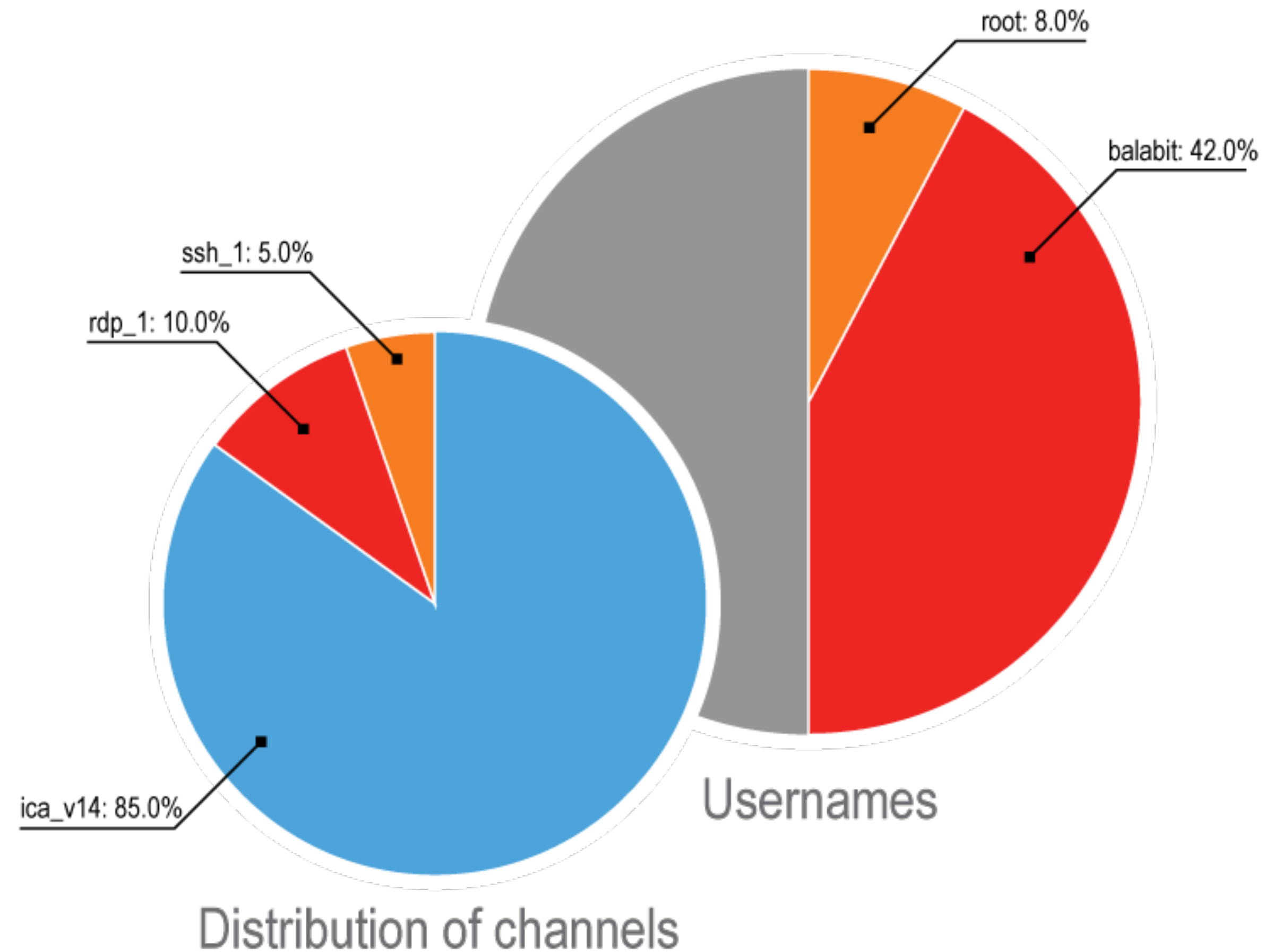
MOVIE-LIKE PLAYBACK OF RECORDED SESSIONS



HOST INDEPENDENT REPORTING

REPORTS ON:

- Usernames,
- Configuration changes,
- Most used commands,
- Privilege escalations,
- Source & destination hosts,
- Access channels,
- Failed logins,
- PCI DSS status, etc.



SEAMLESS ENTERPRISE INTEGRATION

Microsoft Azure

SailPoint

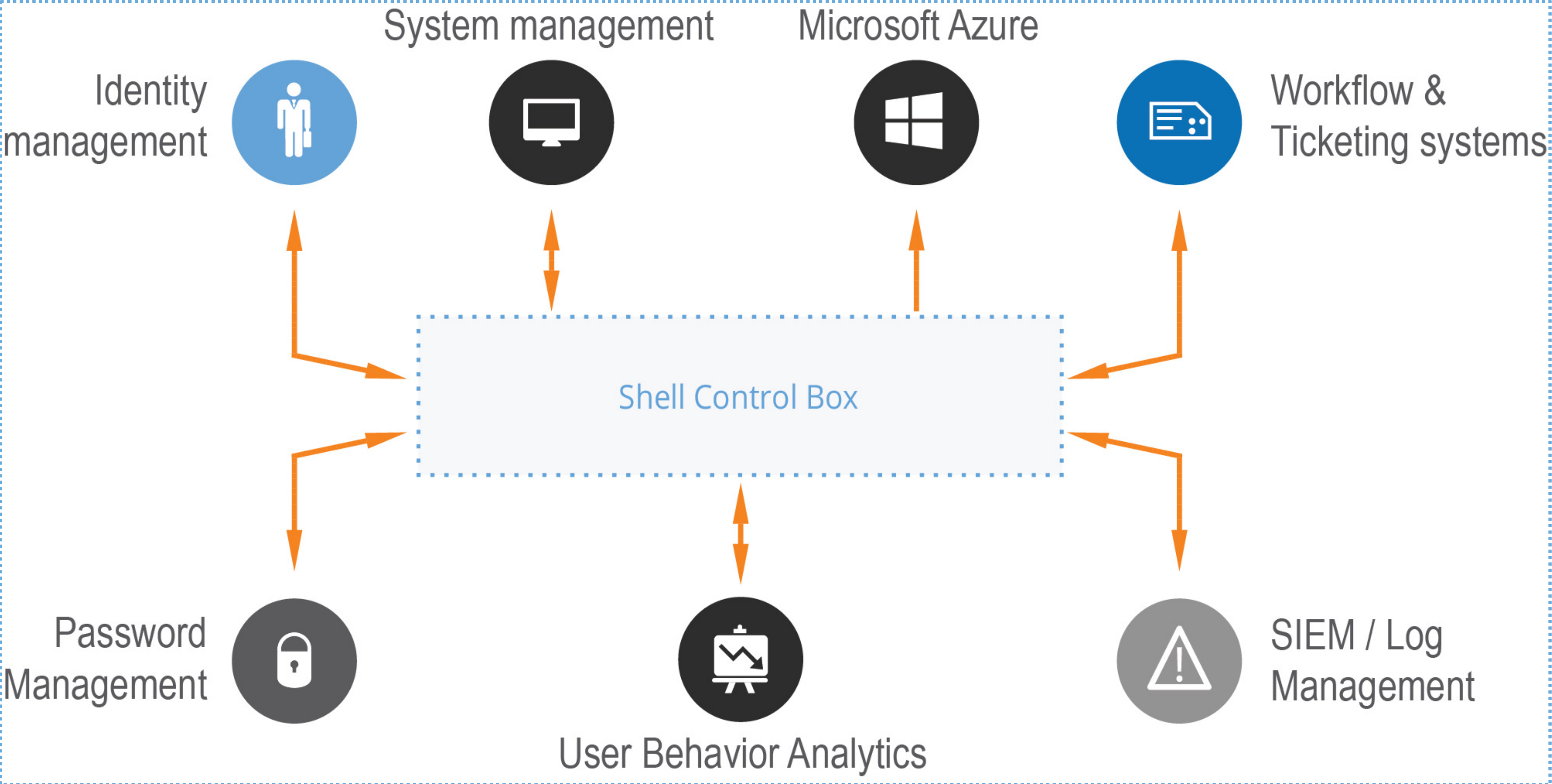
Omada

LIEBERMAN SOFTWARE™

DELL Software

thycotic

BALABIT



BLINDSPOTTER

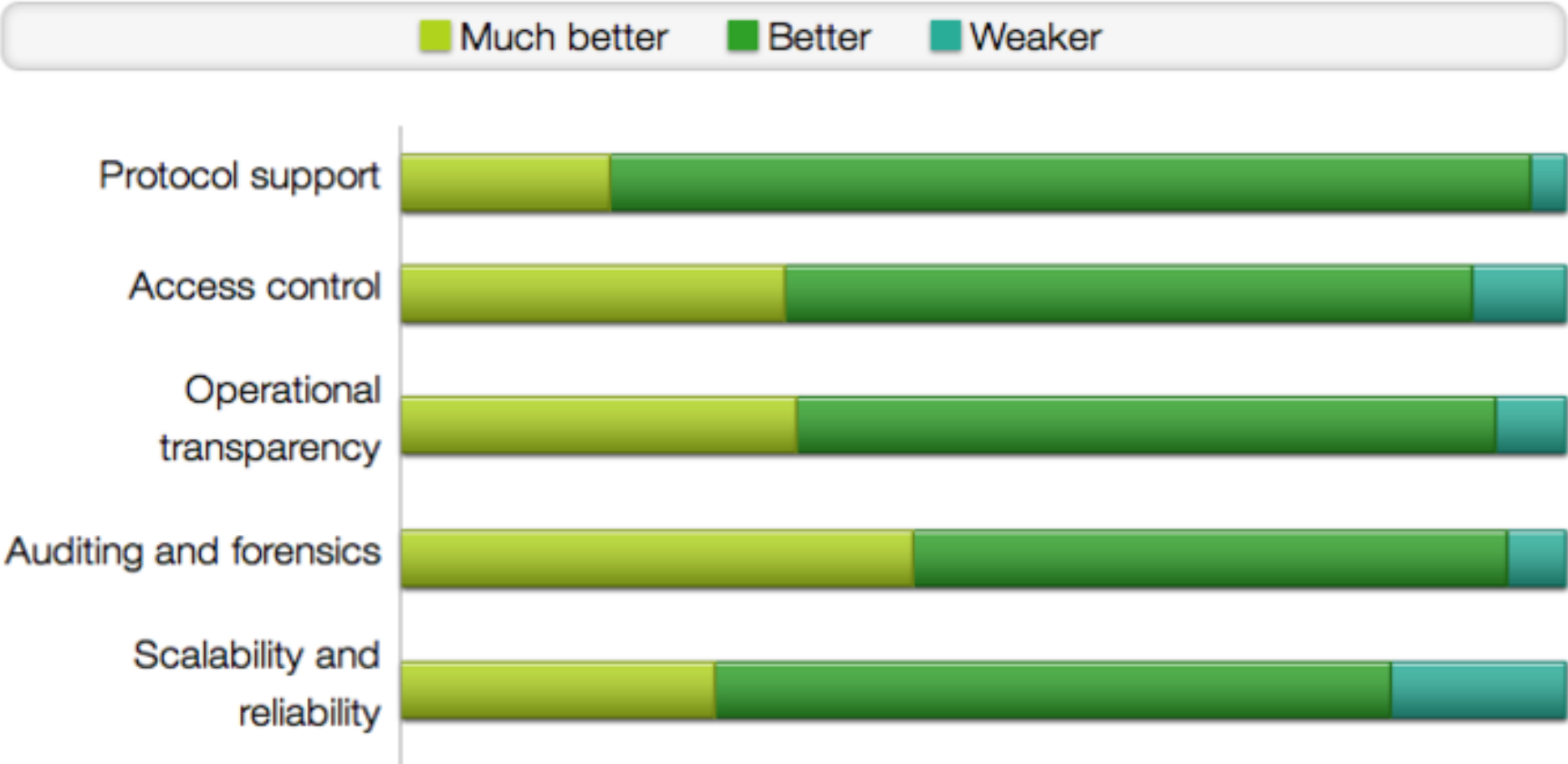
UNIQUE CAPABILITIES



Research by TechValidate

Key Differentiators

Please rate the following Shell Control Box capabilities in terms of how differentiated they are compared to the competition.



Source: Survey of 58 users of BalaBit Privileged Access Management

www.techvalidate.com/product-research/balabit-privileged-access-management

TVID: 3DC-1DE-ED0



BALABIT SHELL CONTROL BOX

Appliances

LICENSING AND IMPLEMENTATION

- **Pricing based on the number of protected hosts**
- **Provided as an appliance, or a virtual image** (Support of Vmware, MS Hyper-V and Azure)
- **3 HW configurations** (Scalable up to 10TB for auditing „unlimited” hosts)
- **Fast deployment, low OPEX** (Implementation and training: 3-5 days)
- **High Availability option**
- **3 support packages** (Base, Extended, Privileged)
- **Direct, 7/24 vendor support** (option)



APPLIANCES

| T1 | T4 | T10 | VA VMware / HyperV |
|----------------------------|-----------------------------|-----------------------------------|----------------------------------|
| Single QuadCore CPU | Single QuadCore CPU | Dual 6-Core CPU | n/a |
| 8 GB | 8 GB | 32 GB | n/a |
| 1 TB Software RAID | 4 TB Hardware RAID | 10 TB Hardware RAID | n/a |
| | Redundant PSU | Redundant PSU Spare disk | n/a |
| HA | HA | HA | by virtual infrastructure |
| 10 → 500 Protected Host | 10 → 5000 Protected Host | 100 → Unlimited Protected Host | 10 → Unlimited Protected Host |

BALABIT SHELL CONTROL BOX

Use Cases

MARKET DRIVERS



COMPLIANCE

International standards

Local legislation

Company policy



SECURITY

Monitor IT staff

Control outsource & cloud admins

Audit terminal services users



OPERATIONAL EFFICIENCY

Fast Troubleshooting & Forensics

Quick audits

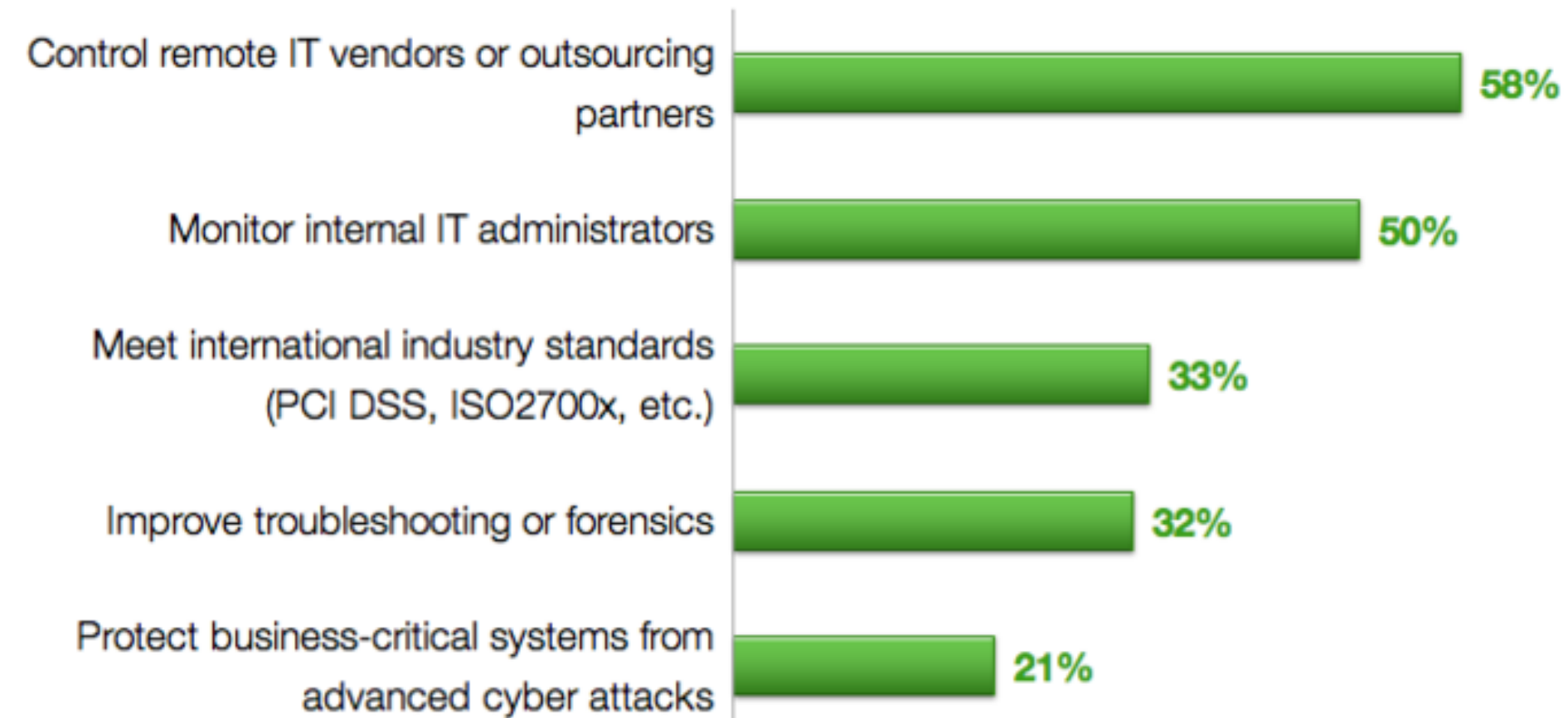
KEY CUSTOMER DRIVERS



Research by  TechValidate

Why customers buy Shell Control Box?

What were the top purchasing drivers for buying your BalaBit Shell Control Box?



USE CASES - COMPLIANCE

Fiducia IT AG

financial IT services provider, Germany

CHALLENGE

Audit admins' access to private banking information to comply with BaFin requirements

SOLUTION

SCB monitors all internal & external administrative access to data center (8,000 UNIX/ Linux servers)

BENEFITS

Smoothly passing supervisory audits

SIA SSB Group

financial provider, Italy

CHALLENGE

Audit access of 200 administrators' to credit card data for PCI DSS compliance

SOLUTION

SCB controls and monitors the administrators' sessions to sensitive servers

BENEFITS

Full compliance with PCI DSS w/o business disruption

Major telecom provider

Major telecommunication provider, Taiwan

CHALLENGE

Audit remote accesses to the 3G network infrastructure for ISO 27011 compliance

SOLUTION

SCB monitors remote access of internal and external network operators

BENEFITS

Full compliance with ISO 27011 and with company access policies.

USE CASES - SECURITY

Bouygues Telecom

CHALLENGE

Centralize & secure administrative access to 18,000 network devices

SOLUTION

Control and monitor SSH and RDP sessions by SCB

BENEFITS

Advanced security of privileged access to critical assets

Central Bank of Hungary

CHALLENGE

Enhancing the protection of the mission-critical currency-system

SOLUTION

SCB to audit IT operators working in VMware View (thin-client) environment

BENEFITS

Increased accountability of the banking IT staff

Ankara University Turkey

CHALLENGE

Prevent another data loss on externally managed servers

SOLUTION

SCB to control and monitor remote desktop (RDP) and SSH connections of externally supported servers

BENEFITS

Mitigated risk of data loss in IT outsourcing processes

USE CASES - OPERATIONAL EFFICIENCY

Leading IT services provider

Germany

CHALLENGE

Database update failed due to wrong IT vendor instructions

SOLUTION

Record all actions of database admins by SCB

BENEFITS

By searching & replaying the relevant working session, the provider identified and troubleshooted the problem in hours.

Major mobile provider

Russia

CHALLENGE

The provider's mobile network partially stopped after a junior operator restarted a critical network server

SOLUTION

Record all actions of network operators by SCB

BENEFITS

By replaying the relevant session, the provider identified the problem and restored the network rapidly.

SCB minimized business disruption, revenue loss and reputation damage!

BALABIT SHELL CONTROL BOX

Target Customers

KEY QUESTIONS TO ANSWER...

01 Are you sure you'd pass audits concerning user monitoring?

02 Can you reliably control your outsourcing partners?

03 Can you monitor the actions of your „superusers“?

04 Can you ensure the accountability of your staff?

05 Do you really know „who did what“ on your key servers?

TELECOMMUNICATIONS

Protecting client and billing data

Several types of sensitive data (e.g. call data records or web traffic)

Great need for business continuity

Thousands of networking devices managed by countless operators

Fast resolution of network problems and accountability issues

Security Risk of Third-parties

Nation-wide impact of cyber-attacks

Critical national infrastructure, as targets of cyber-terrorists



CLOUD- AND MANAGED SERVICE PROVIDERS

Strict measures to keep reputation

Proactive, special security precautions

Accountability issues

Transparent and auditable IT mgt. to prevent „blame-games”

SLA verification

Justify KPIs and billable actions

Compliance challenges

Client data protection - PCI DSS (Cloud Computing Guides), CSA, ISAE 3402, etc.



FINANCE

Increasing risk of fraud & cyber-attacks

Banks as largest targets for cyber-criminals

Great regulatory pressure

Strict internal IT security policies,
Basel III, MiFID II, SOX, PCI DSS...

Complex IT organizations

Large, distributed data centers managed by hundreds of admins

Difficulties of controlling 3rd parties



GOVERNMENT

Cyber espionage & APT attacks

Advanced security to prevent national security incidents

Regulatory pressure

National laws and acts, such as HIPAA or NIST SP 800-53

Managing 3rd parties

Protection of personal records from external providers



OTHER INDUSTRIES

Public utility services

Manufacturing firms

Large retailers

Enterprises with extensive network

Enterprises using IT outsourcing

Enterprises with high security standards



BALABIT SHELL CONTROL BOX

Customer Benefits

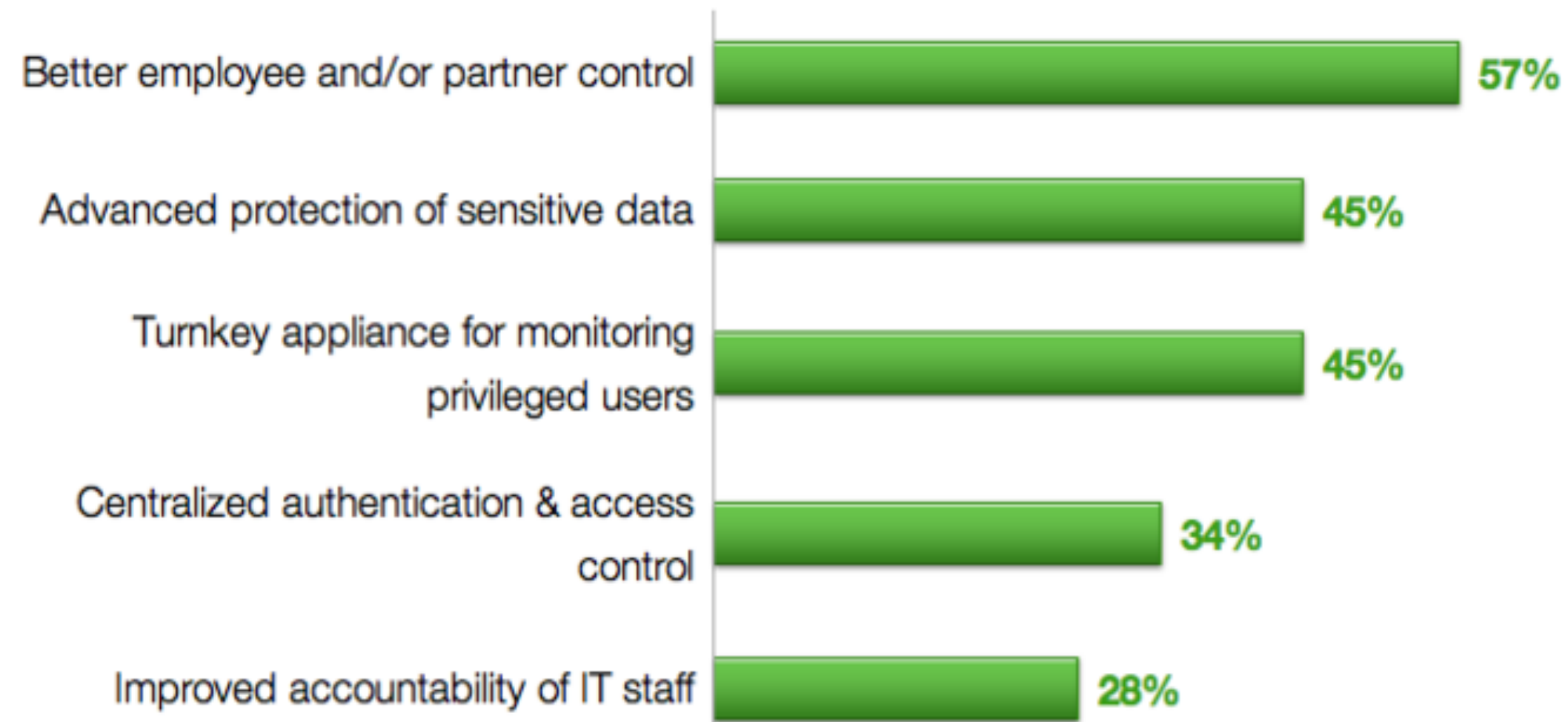
BENEFITS



Research by  TechValidate™

Key Business Benefits

What are the key values Shell Control Box provides for your organization?



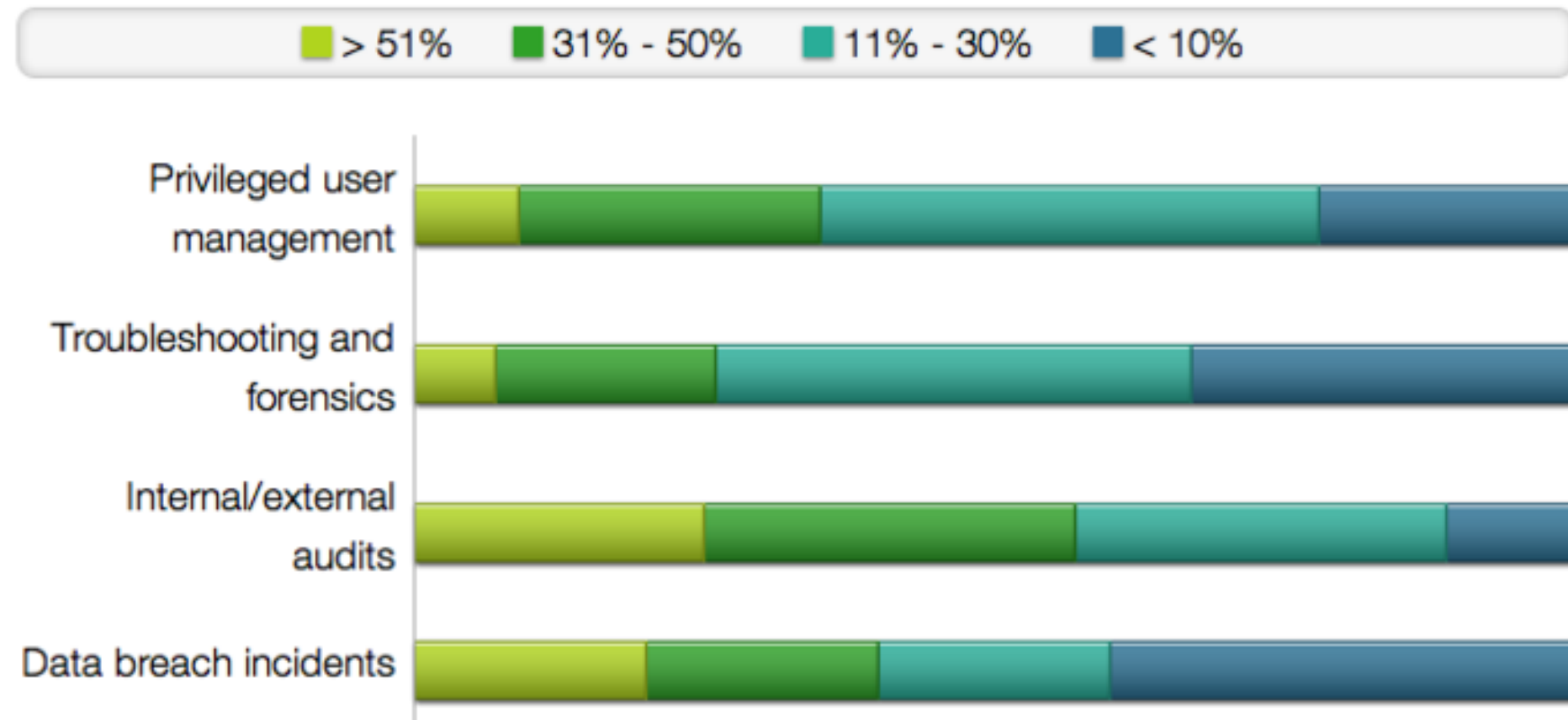
ROI



Research by  TechValidate

Shell Control Box's Return On Investment

By what percentage did SCB reduce the cost of the following activities at your organization?



Source: Survey of 59 users of BalaBit Privileged Access Management

www.techvalidate.com/product-research/balabit-privileged-access-management

TVID: 79E-64B-19B



TESTIMONIALS

„Balabit SCB is the only serious product on the market that is capable of securely monitoring SSH sessions”

Øyvind Gielink, IT security Officer,
Telenor

„ Balabit is the first company in IT business, which provided a solution in promised time...”

Michael Fendt, System & Network
Engineer, Fiducia IT

„ SCB is a core component of Alfa Bank’s new Information Security Strategy.”

Andrey Fedotov, Head of IT
Security, Alfa Bank

ANALYST QUOTES

„ Balabit offers industrial strength session monitoring and recording.”

Andras Cser, Vice President,
Principal Analyst, Forrester
Research

„ Adding third party capabilities such as privileged session management (PSM) can sometimes offer a more suitable solution at a lower price than a suite offering.”

Felix Gaehtgens, Research
Director, Gartner

„ Bringing together [user] monitoring and recording is very important to have the context of when did someone do what.”

Martin Kuppinger, Founder and
Principal Analyst, KuppingerCole



BALABIT
CONTEXTUAL SECURITY INTELLIGENCE

Thank you for your attention!

Contextual security today

More information: www.balabit.com