



APP & CLOUD SECURITY CONTROLS FRAMEWORK

COMMUNITY

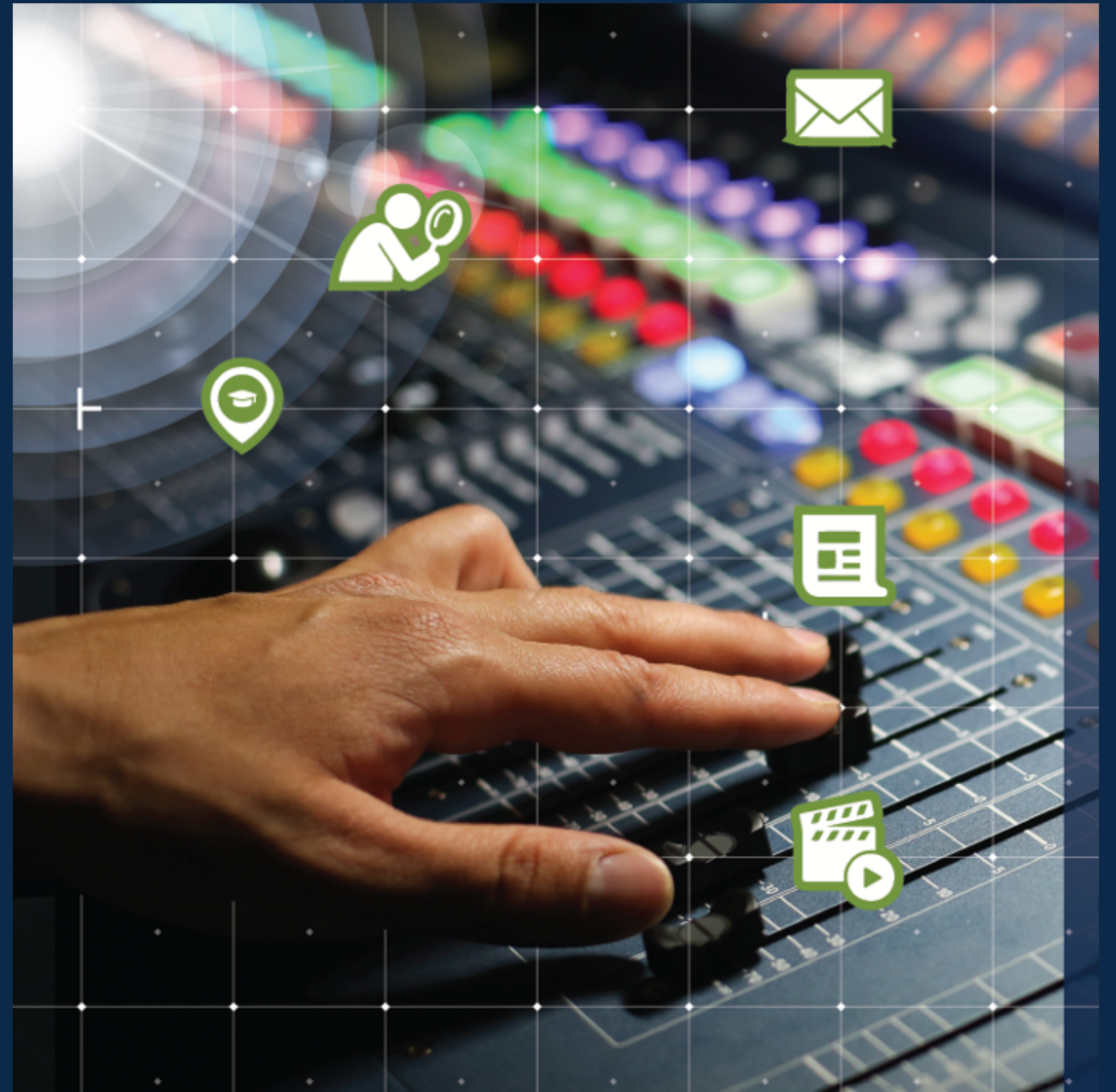
BUILDING ACROSS AN ECOSYSTEM OF CONTENT, SOFTWARE, AND CLOUD

- MAJOR CONTENT OWNERS, CREATORS AND BRANDS
- MAJOR CLOUD PLATFORMS AND SOFTWARE VENDORS
- PRODUCTION, POST, DISTRIBUTION SERVICES
- NATIVE CLOUD SOFTWARE VENDORS AND INTEGRATORS
- AUTOMATED COMPLIANCE AND GOVERNANCE TOOLS

OVERALL TPN AIMS

IMPROVED CONTENT SECURITY IN STUDIO SUPPLY CHAIN

- COMMON CONTROL SET
- EFFICIENT OPERATIONS
- SHARED AUDIT REPORTS FOR STUDIOS
- REDUCED COSTS FOR VENDORS
- GLOBAL TALENT POOL FOR AUDITORS



NEW CHALLENGES

PARADIGM SHIFT IN MEDIA & ENTERTAINMENT

- AUDIENCE AND REVENUES MOVING ONLINE
- CONSOLIDATION OF DIGITAL PRODUCTION, POST AND DISTRIBUTION
- RAPID SHIFT TO CLOUD-BASED WORKFLOWS
- BROADER CONSTITUENCY ACROSS M&E SUPPLY CHAIN
- NEW SKILLS AND SECURITY CULTURE REQUIRED

THE EVOLVING M&E INDUSTRY APPROACH

GUIDELINES, PROGRAMS & COMPLIANCE

GUIDANCE



- Awareness
- Hygiene
- Self Selection

INDUSTRY ALIGNMENT



- Checklist
- Self Certified
- Oversight

TPN

- Common Controls
- Professional Audit
- Information Sharing

REGULATION



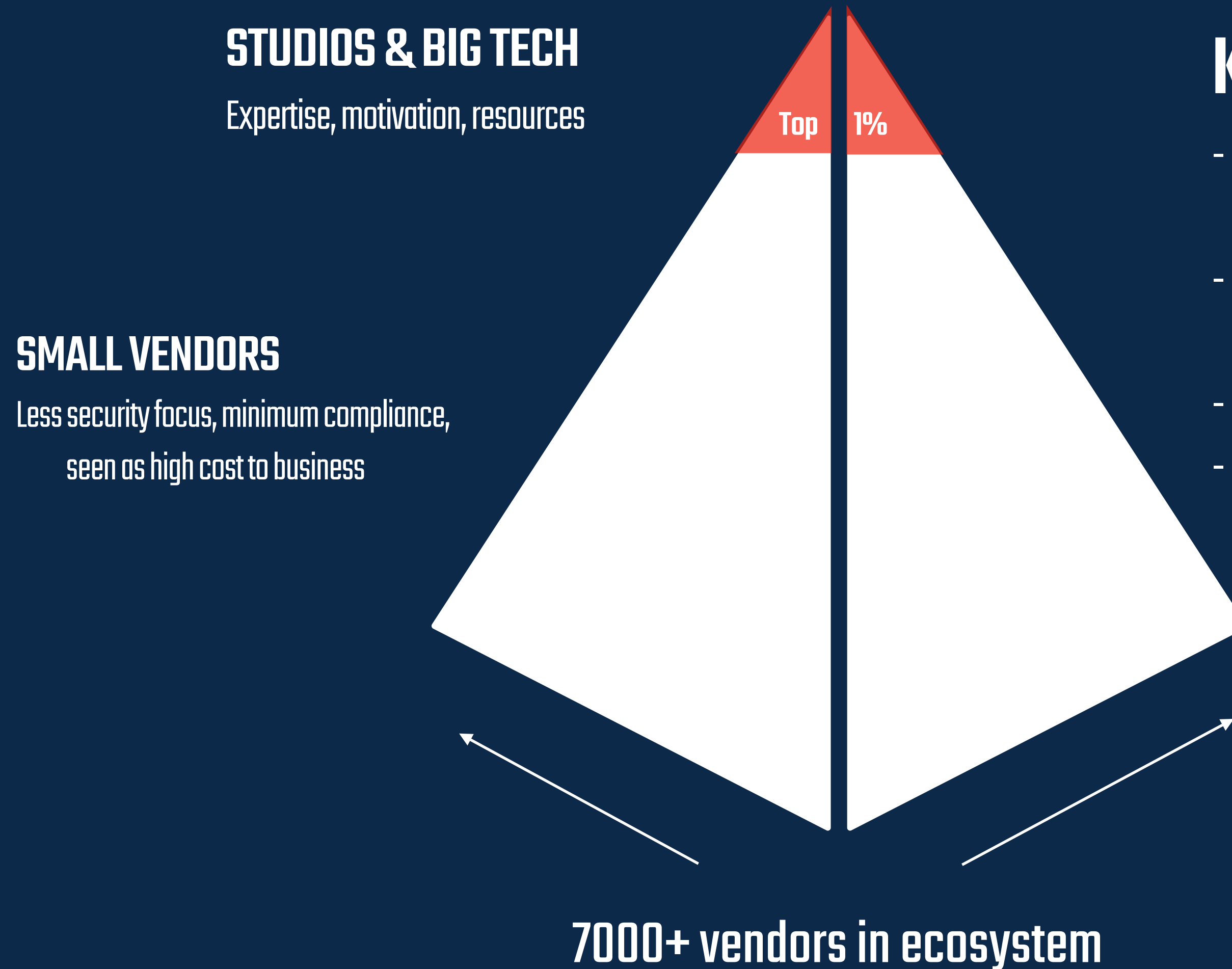
- Industry Acceptance
- Legislation & Penalties
- Repeatability



BEST PRACTICES - UPDATED 11.11.20

<https://www.motionpictures.org/what-we-do/safeguarding-creativity/additional-resources/#content-protection-best-practices>

SECURE THE GLOBAL MEDIA SUPPLY CHAIN



Key Program Aims

- Continuity, mapping against solid foundations of MPA & TPN, extended into software driven cloud domain
- Reduce audit costs for vendors and increase consistency of audit for content owners
- Reduce controls editing effort, who needs more custom controls
- Continuous self-audit is essential, software changes fast!

OPEN STANDARDS CONTROL FRAMEWORK



CSA harnesses the subject matter expertise of industry practitioners, associations, governments, and its corporate and individual members to offer cloud security-specific research, education, certification, events and products. CSA's activities, knowledge and extensive network benefit the entire community impacted by cloud — from providers and customers, to governments, entrepreneurs and the assurance industry — and provide a forum through which diverse parties can work together to create and maintain a trusted cloud ecosystem.



We are a community-driven nonprofit, responsible for the CIS Controls® and CIS Benchmarks™, globally recognized best practices for securing IT systems and data. We lead a global community of IT professionals to continuously evolve these standards and provide products and services to proactively safeguard against emerging threats. Our CIS Hardened Images® provide secure, on-demand, scalable computing environments in the cloud.



The Open Web Application Security Project® (OWASP) is a nonprofit foundation that works to improve the security of software. Through community-led open-source software projects, hundreds of local chapters worldwide, tens of thousands of members, and leading educational and training conferences, the OWASP Foundation is the source for developers and technologists to secure the web.

CLOUD PLATFORMS

ALIGNED SHARED RESPONSIBILITY AND VIRTUALISATION MODELS

- LATEST “BEST PRACTICE” IMPLEMENTATION ADVICE LINKED TO CONTROLS
 - WHITE PAPERS
 - MEDIA & ENTERTAINMENT PERSPECTIVE
 - PRODUCT SPECIFIC BEST PRACTICE
- COMMON WORKFLOW PATTERNS, END-END SECURITY ADVICE

 Alibaba Cloud

 aws

 Microsoft
Azure

 Google Cloud

 IBM Cloud

APPLICATION & CLOUD

ALIGNED SHARED RESPONSIBILITY AND VIRTUALISATION MODELS

- SOFTWARE REVIEW RELEASE PROCESS AND TEAM SKILLS
- INTERACTION BETWEEN COMPONENTS



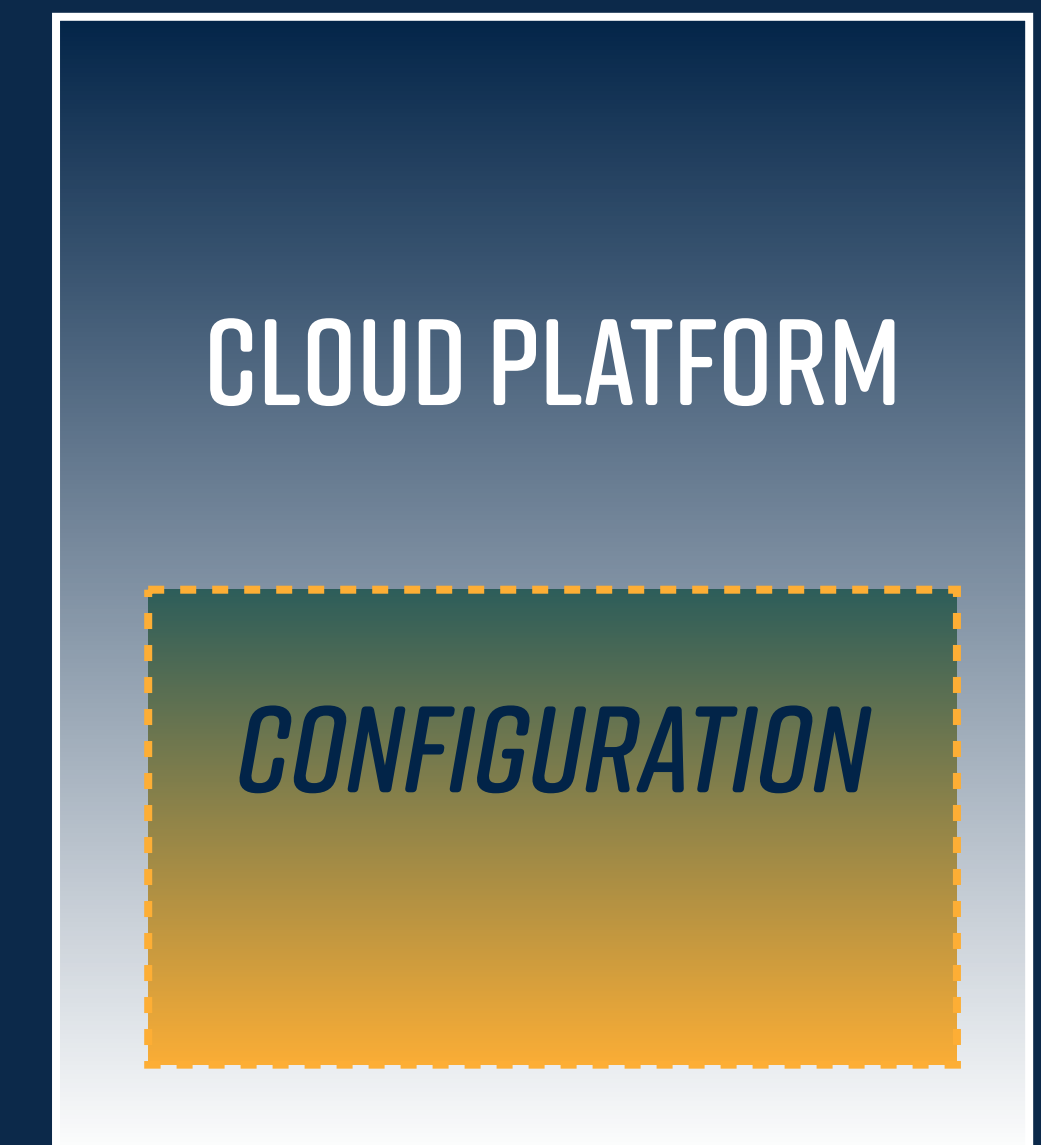
APPLICATION

CLOUD PLATFORM

APPLICATION & CLOUD...CONFIGURATION

ALIGNED SHARED RESPONSIBILITY AND VIRTUALISATION MODELS

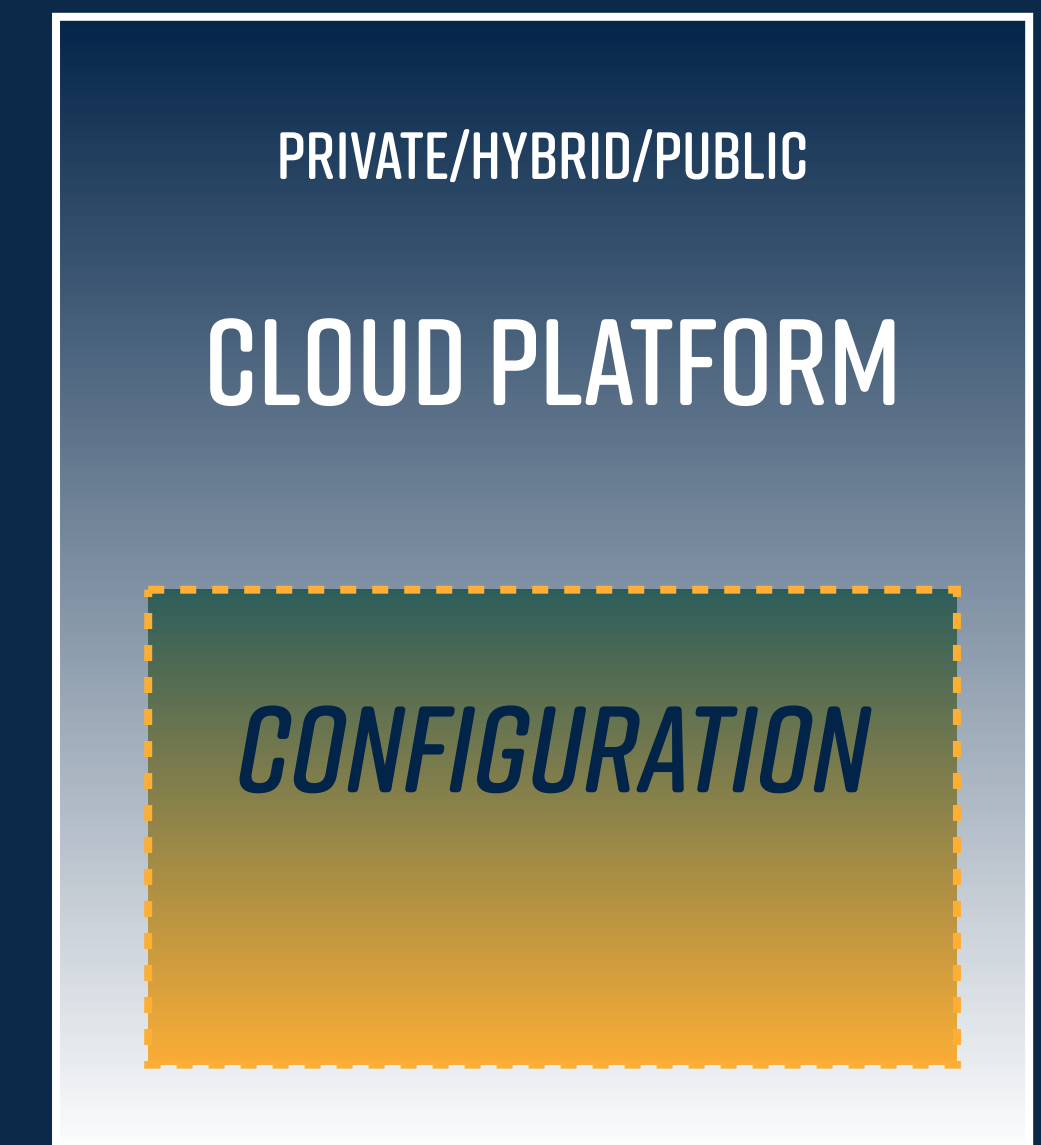
- SOFTWARE REVIEW RELEASE PROCESS AND TEAM SKILLS
- INTERACTION BETWEEN COMPONENTS



APPLICATION & CLOUD...SCALE

ALIGNED SHARED RESPONSIBILITY AND VIRTUALISATION MODELS

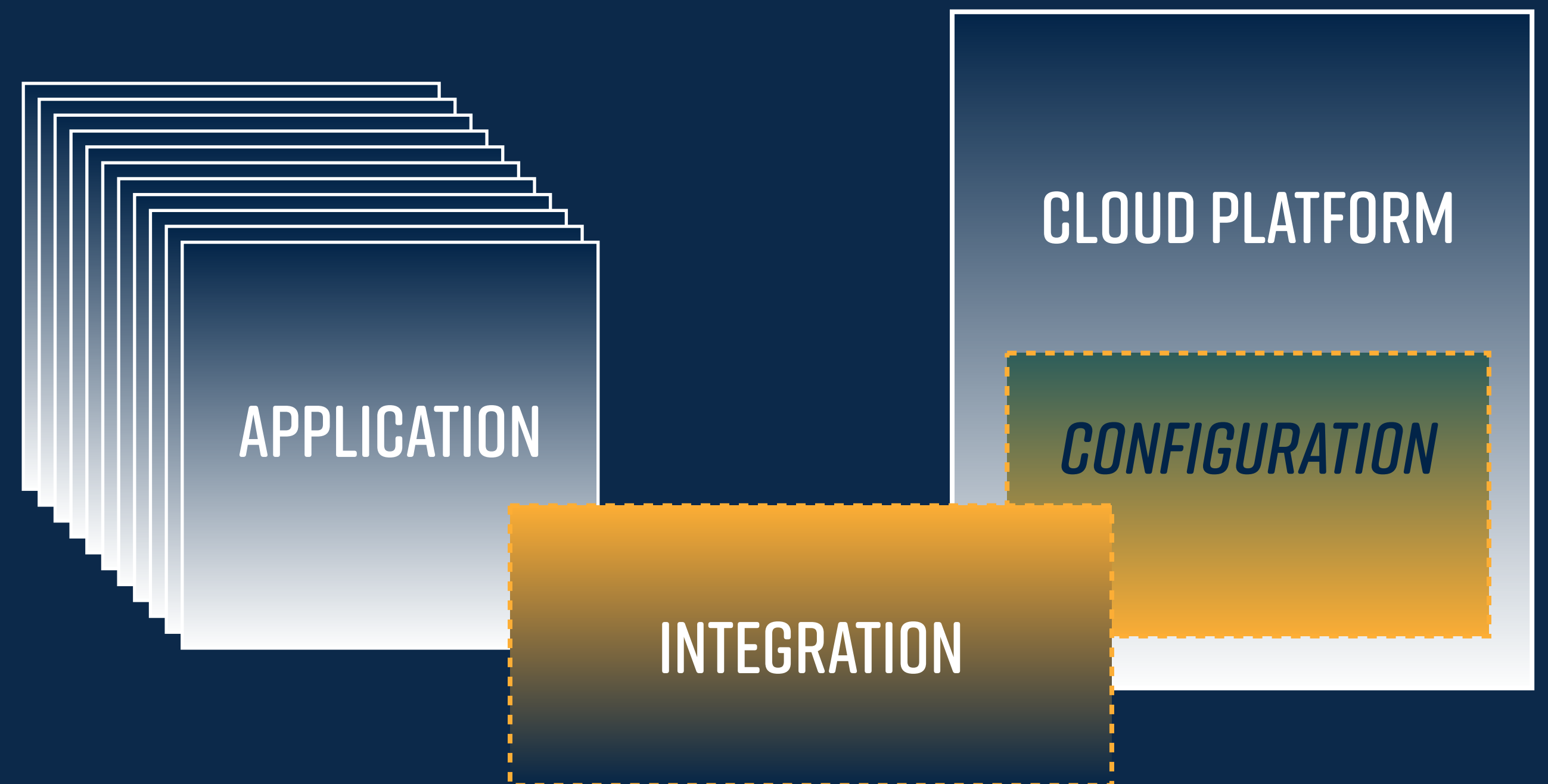
- SOFTWARE REVIEW RELEASE PROCESS AND TEAM SKILLS
- INTERACTION BETWEEN COMPONENTS



APPLICATION & CLOUD...INTEGRATION

ALIGNED SHARED RESPONSIBILITY AND VIRTUALISATION MODELS

- SOFTWARE REVIEW RELEASE PROCESS AND TEAM SKILLS
- INTERACTION BETWEEN COMPONENTS



TECHNOLOGY COMMITTEE

KEY PERSPECTIVES

VOICES FROM THE TECHNOLOGY COMMITTEE CHAIRS

- MAJOR CONTENT OWNER



- MAJOR SOFTWARE PLATFORM

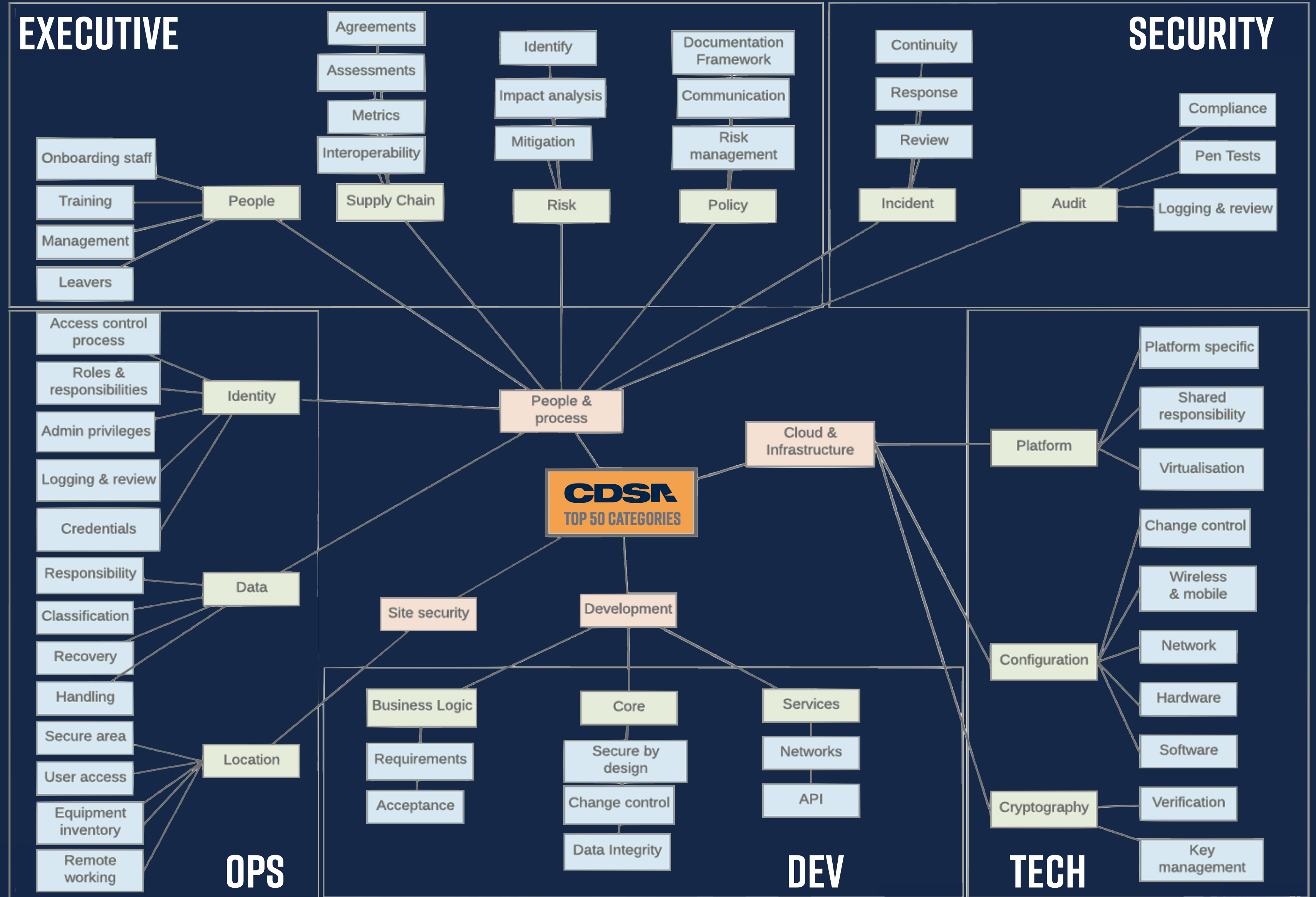


- MULTI-PLATFORM SERVICES



TOP 50 CATEGORIES

- FOCUSED ON SMALL SET OF PRIMARY CONTROLS IN EACH AREA
- ALIGNED TO KEY ROLES ACROSS THE ORGANIZATION AT ANY SCALE
- HIGH LEVEL SUMMARY NARRATIVE DOCUMENT
- OVERVIEW STRUCTURE FOR TARGET 900 CONTROLS
- SPREADSHEET WITH DETAILED CONTROLS AND LINKS



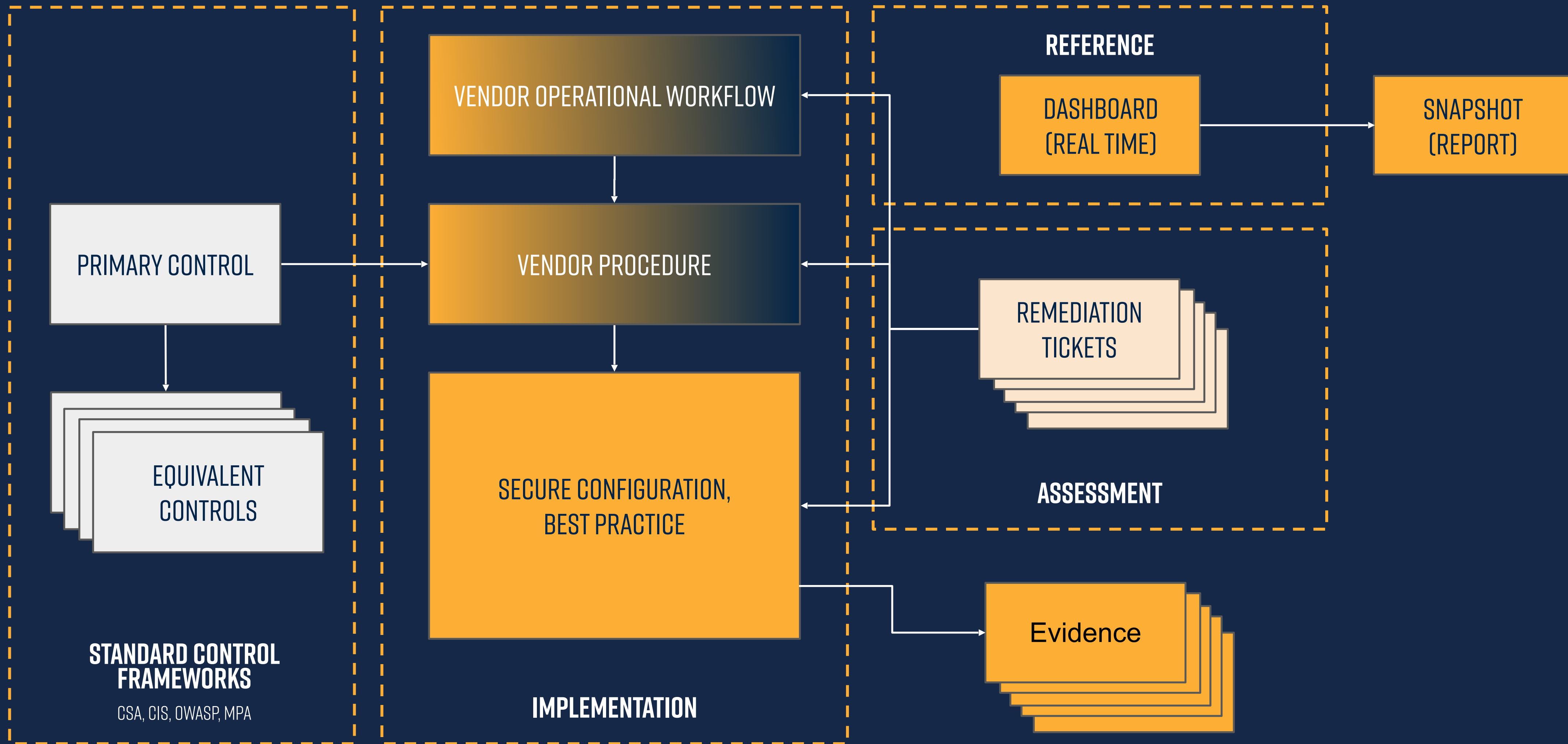
CONTROL SET REVIEW

CDSA TECHNOLOGY COMMITTEE: A VOLUNTEER ARMY

- STRONG FOUNDATIONS
- HUGE TEAM EFFORT (THANKS!)
- FRAMEWORK ALIGNMENT
- OPEN SOURCE, PEER REVIEW
- MAPPING, GRAPH TRAVERSAL
- CREDENTIALS, SITE SECURITY

| Index | Category | Top 50 Section | Top 50 Pillar | Top 50 Activity | CDSA mapping | Control Domain | Control Sub Domain | Updated Control Specification | Status | Control ID (CSA, CIS, OWASP, MPA) | Mapping Candidate |
|-------|----------|----------------|----------------|------------------|------------------|---|---------------------------------------|--|----------|-----------------------------------|-------------------|
| 1 | | 5.3.1 | Services | API | Dev lifecycle | Application & Interface Security | Application Security | Applications and programming interfaces (APIs) shall be designed, developed, deployed, and tested in accordance with leading industry standards (e.g., OWASP for web applications) and adhere to applicable legal, statutory, or regulatory compliance obligations. | Unmapped | CCM V3.0.1 AIS-01 | Dev lifecycle |
| 2 | | 5.1.1 | Business Logic | Requirements | Dev lifecycle | Application & Interface Security | Customer Access Requirements | Prior to granting customers access to data, assets, and information systems, identified security, contractual, and regulatory requirements for customer access shall be addressed. | Unmapped | CCM V3.0.1 AIS-02 | Dev lifecycle |
| 3 | | 5.2.1 | Core | Data Integrity | Dev lifecycle | Application & Interface Security | Data Integrity | Data input and output integrity routines (i.e., reconciliation and edit checks) shall be implemented for application interfaces and databases to prevent manual or systematic processing errors, corruption of data, or misuse. | Unmapped | CCM V3.0.1 AIS-03 | Dev lifecycle |
| 4 | | 5.2.1 | Core | Data Integrity | Dev lifecycle | Application & Interface Security | Data Security / Integrity | Policies and procedures shall be established and maintained in support of data security to include (confidentiality, integrity, and availability) across multiple system interfaces, jurisdictions, and business functions to prevent improper disclosure, alteration, or destruction. | Unmapped | CCM V3.0.1 AIS-04 | Dev lifecycle |
| 5 | | 1.8.2 | Audit | Compliance | People & process | Audit Assurance & Compliance | Audit Planning | Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the effectiveness of the implementation of security operations. All audit activities must be agreed upon prior to executing any audits. | | CCM V3.0.1 AAC-01 | CCM V3.0.1 AAC-01 |
| 6 | | 1.8.2 | Audit | Compliance | People & process | Audit Assurance & Compliance | Audit Planning | Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the effectiveness of the implementation of security operations. All audit activities must be agreed upon prior to executing any audits. | | CCM V3.0.1 AAC-01 | CCM V3.0.1 AAC-01 |
| 7 | | 1.8.3 | Audit | Logging & review | People & process | Audit Assurance & Compliance | Independent Audits | Independent reviews and assessments shall be performed at least annually by a qualified assessor to ensure that the organization addresses nonconformities of established policies, standards, procedures, and compliance obligations. | | CCM V3.0.1 AAC-03 | CCM V3.0.1 AAC-03 |
| 8 | | 1.8.2 | Audit | Compliance | People & process | Audit Assurance & Compliance | Information System Regulatory Mapping | Organizations shall create and maintain a control framework which captures standards, regulatory, legal, and statutory requirements relevant for their business needs. The control framework shall be reviewed at least annually to ensure changes that could affect the business processes are reflected. | | CCM V3.0.1 AAC-03 | CCM V3.0.1 AAC-03 |
| 9 | | 1.7.2 | Incident | Continuity | People & process | Business Continuity Management & Operational Resilience | Business Continuity Planning | A consistent unified framework for business continuity planning and plan development shall be established, documented, and adopted to ensure all business continuity plans are consistent in addressing priorities for testing, maintenance, and information security requirements. Requirements for business continuity plans include the following: <ul style="list-style-type: none"> • Defined purpose and scope, aligned with relevant dependencies • Accessible to and understood by those who will use them • Owned by a named person(s) who is responsible for their review, update, and approval • Defined lines of communication, roles, and responsibilities • Detailed recovery procedures, manual work-around, and reference information • Method for plan invocation | | CCM V3.0.1 BCR-01 | CCM V3.0.1 BCR-01 |

CONTROL HEIRARCHY

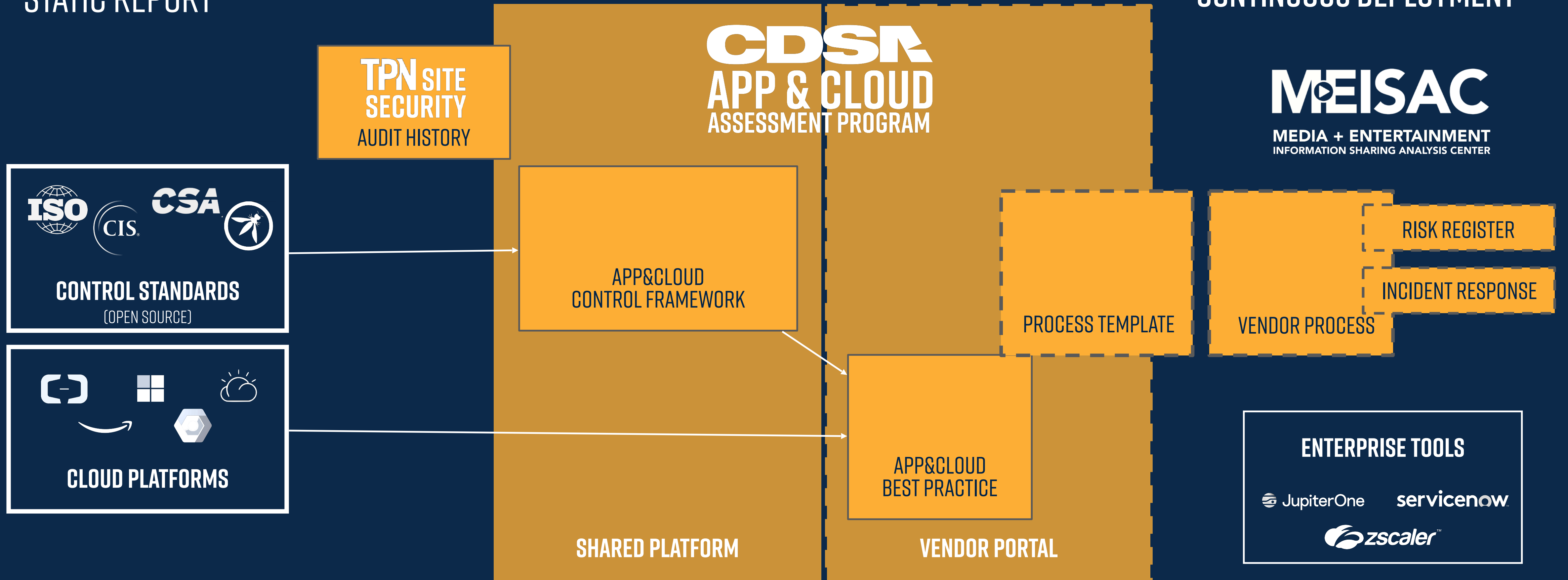


EVOLUTION



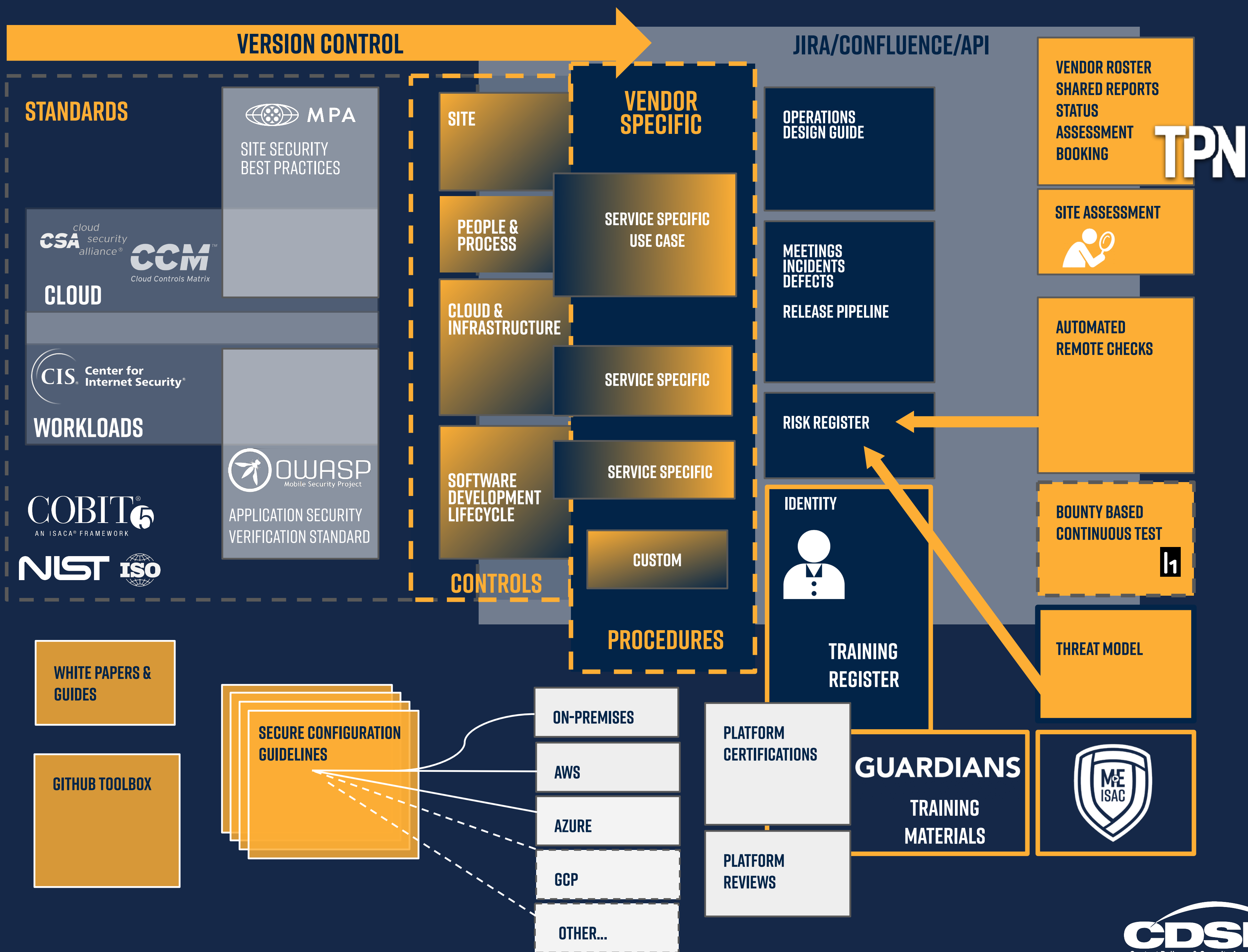
ANNUAL VISIT,
STATIC REPORT

REAL-TIME RISK UPDATES,
CONTINUOUS DEPLOYMENT



EVOLUTION: REAL-TIME SECURITY

- REDUCE CONTROLS MAINTENANCE EFFORT
- LEVERAGE CLOUD PLATFORM COLLATERAL
- USABLE DOCUMENTATION, EASY TO ADOPT AN APPROACH
- HIGHLIGHT CONTROL CHANGES AND NEW THREATS/INTEL
- ENABLE SKILLS DEVELOPMENT
- NEW AUDIT SUPPORT



■ REDUCE CONTROLS MAINTENANCE EFFORT



- REDUCE CONTROLS MAINTENANCE EFFORT
- LEVERAGE CLOUD PLATFORM COLLATERAL



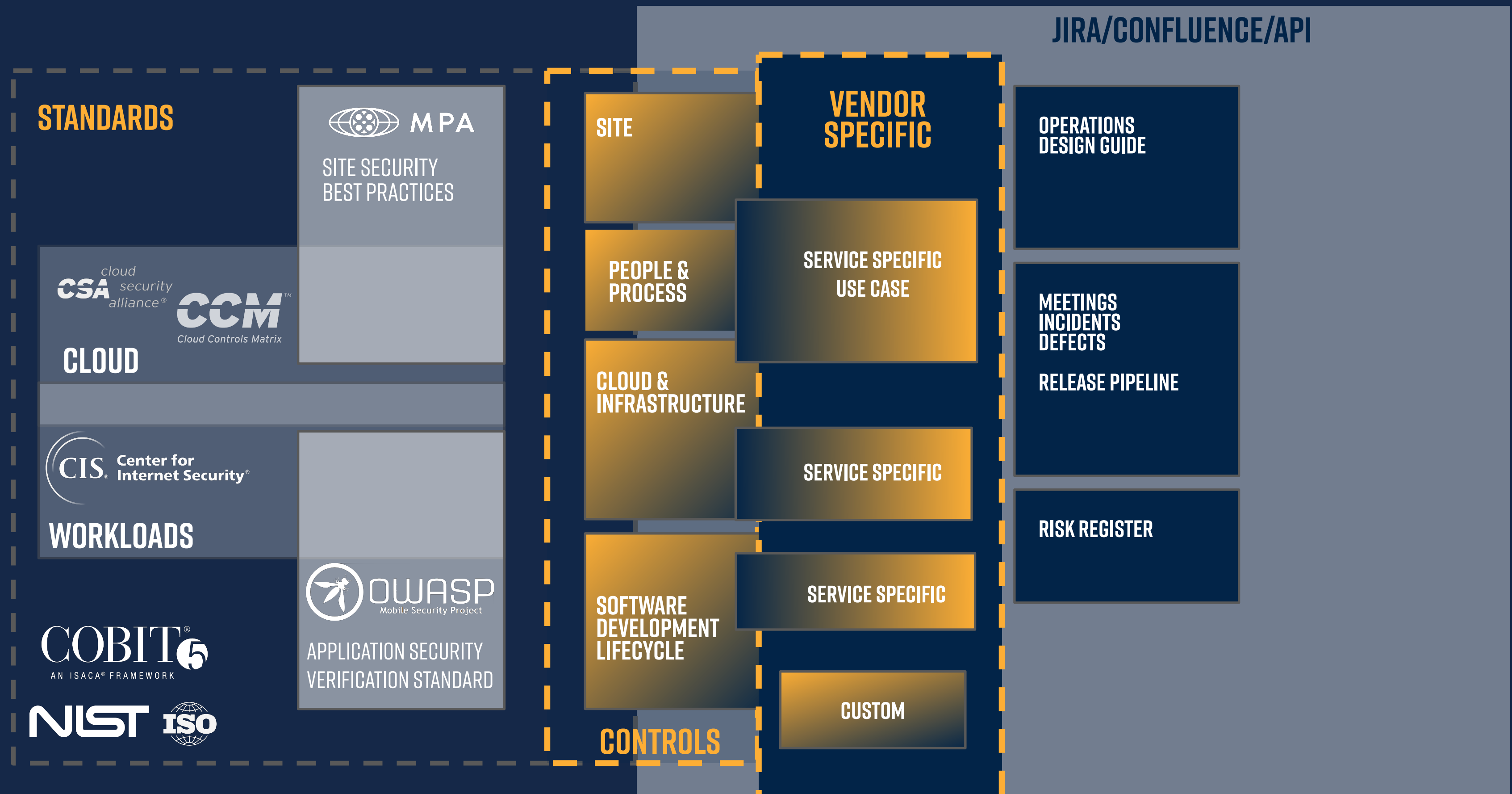
WHITE PAPERS &
GUIDES

GITHUB TOOLBOX



- ON-PREMISES
- AWS
- AZURE
- GCP
- OTHER...

- REDUCE CONTROLS MAINTENANCE EFFORT
- LEVERAGE CLOUD PLATFORM COLLATERAL
- USABLE DOCUMENTATION, EASY TO ADOPT AN APPROACH



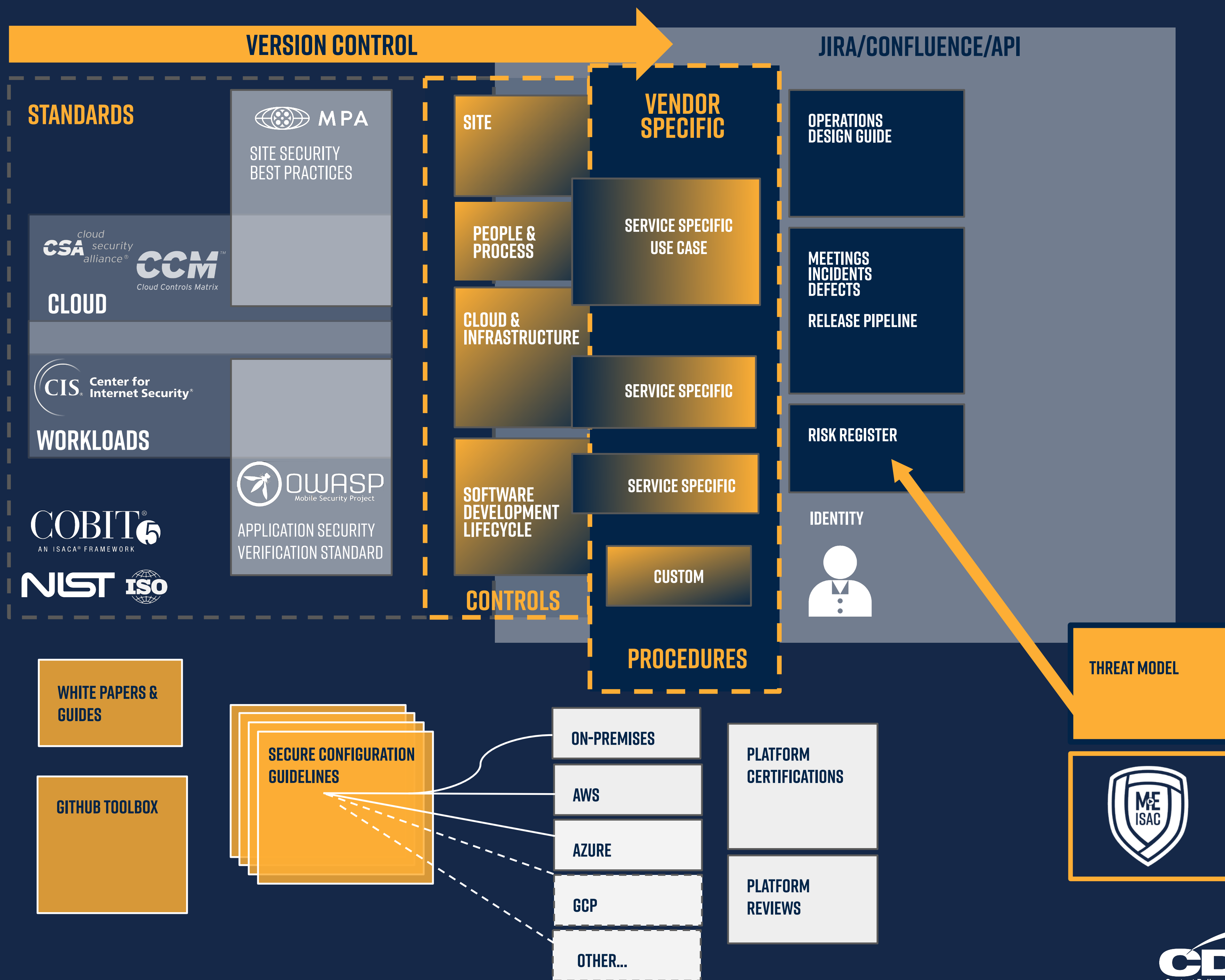
WHITE PAPERS & GUIDES

GITHUB TOOLBOX

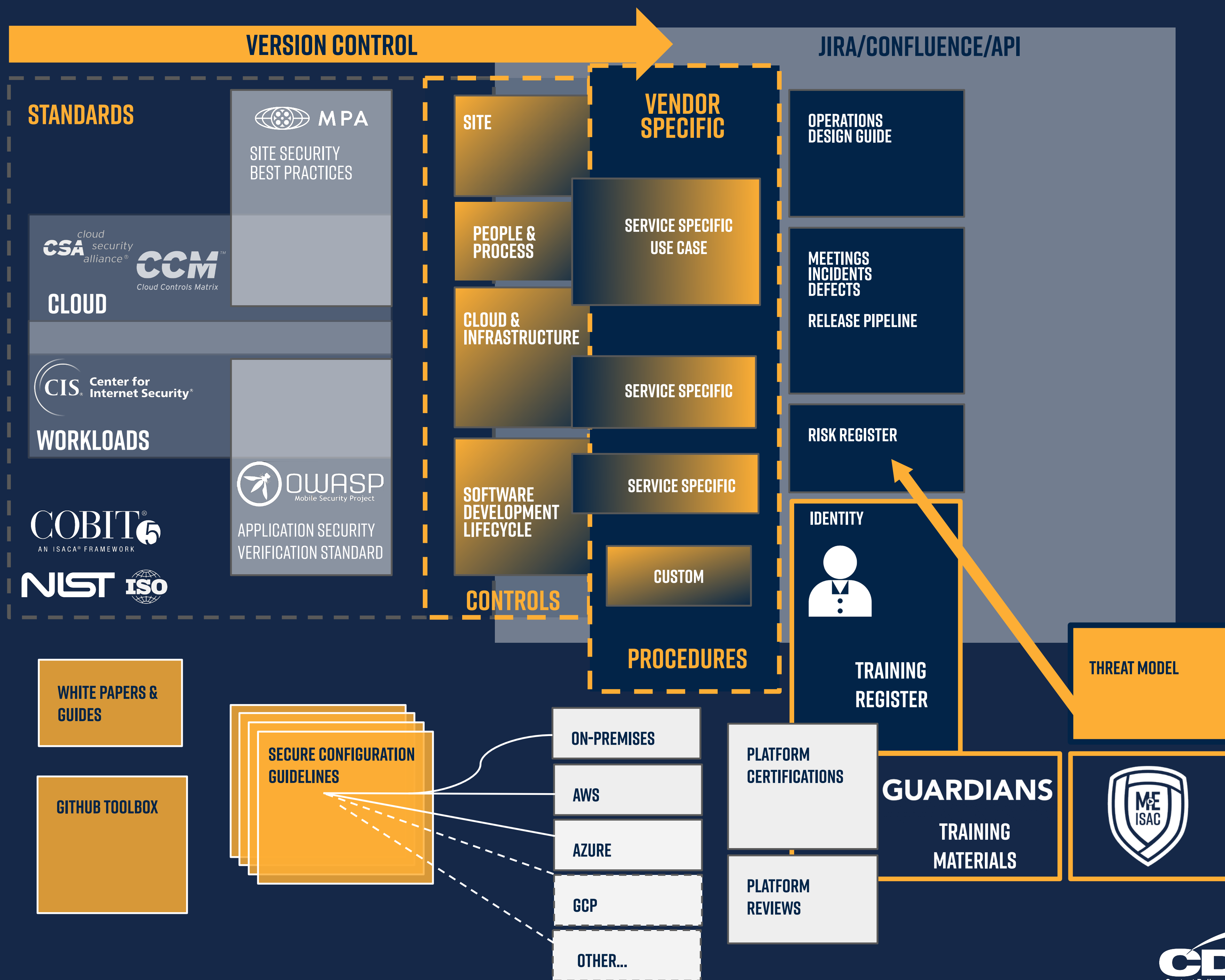
SECURE CONFIGURATION GUIDELINES

- ON-PREMISES
- AWS
- AZURE
- GCP
- OTHER...

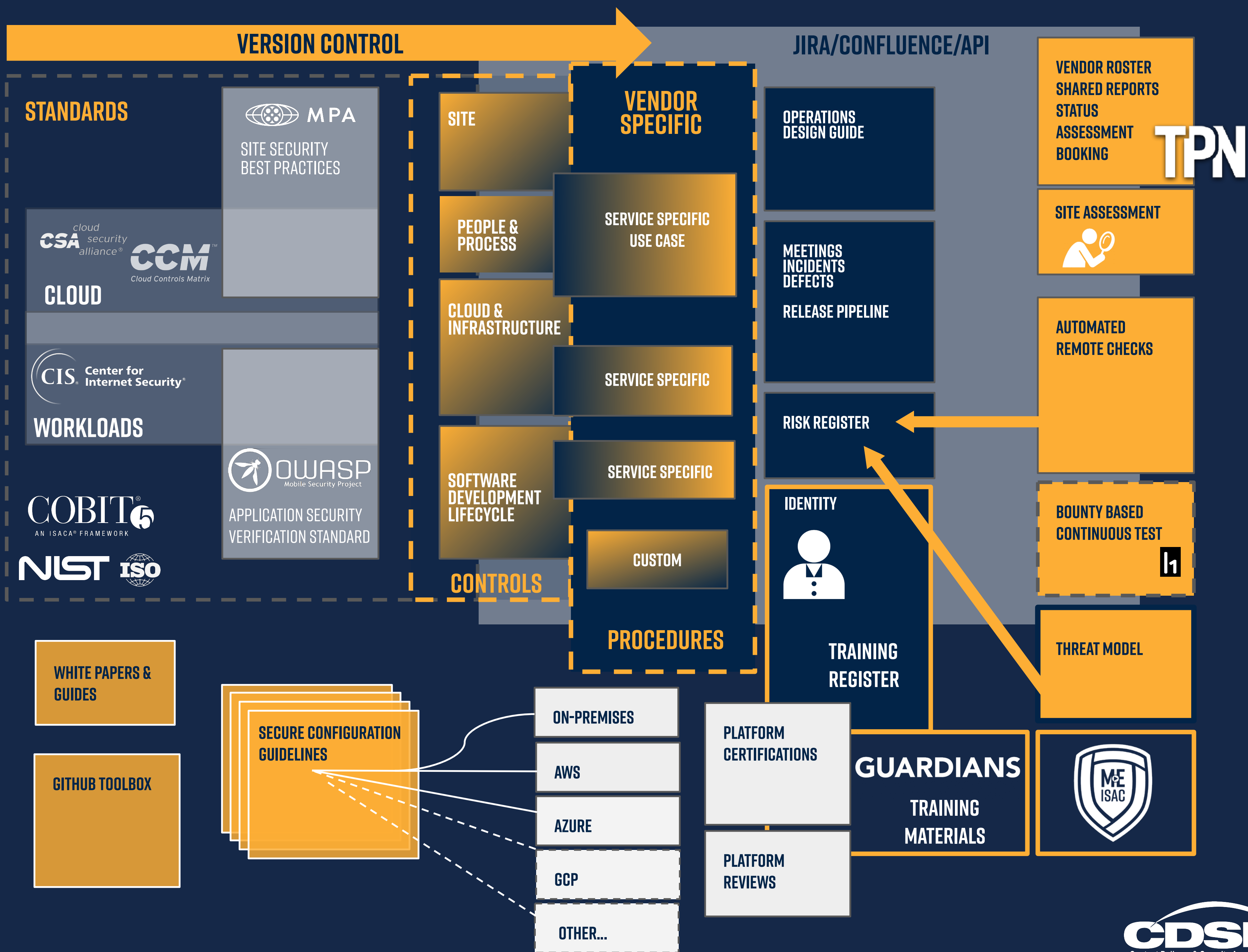
- REDUCE CONTROLS MAINTENANCE EFFORT
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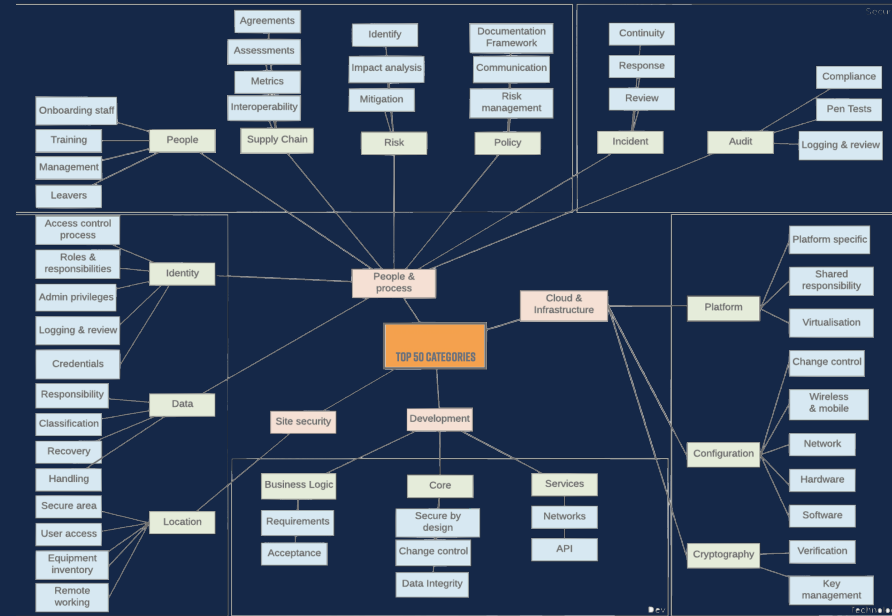
WHERE WE ARE GOING...

ROADMAP

VENDOR BETA

PUBLISH CONTROL FRAMEWORK

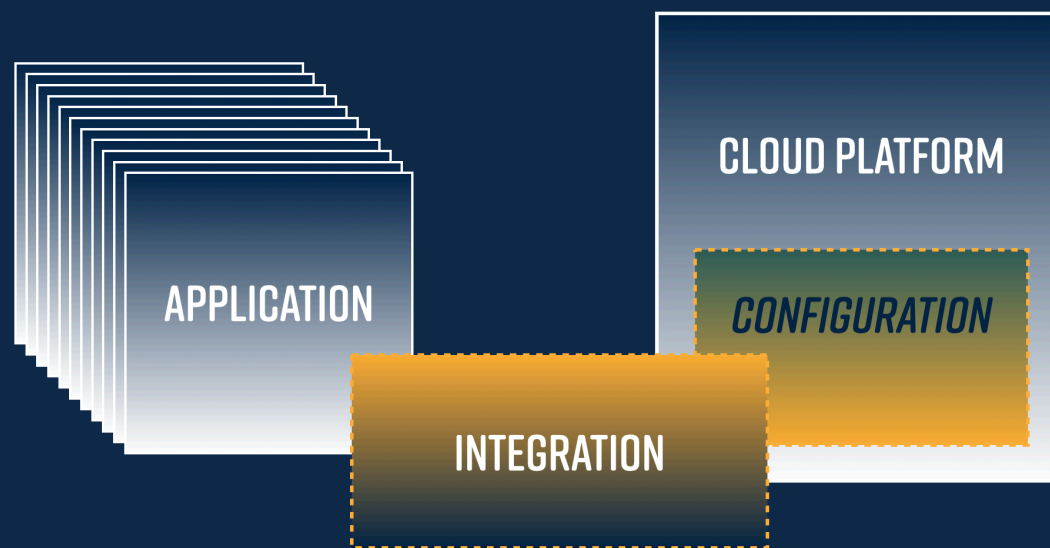
HIGH LEVEL ORIENTATION



ROAD-TEST USE CASES

We are here

IDENTIFY TARGETS



| Index | Category | Top 50 Section | Top 50 Pillar | Top 50 Activity | CSA Mapping | Control Domain | Control Sub-Domain | Updated Control Specification | Status | Control ID (ISA, CIS, CSA, OWASP) | Mapping Candidate |
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| 2 | | 3.1.1 | Business Logic | Requirements | Dev lifecycle | Application & Interface Security | Customer Access Requirements | Plan to grant customer access to data, users, and information systems, identified security, contractual, and regulatory requirements for customer access shall be addressed. | Unmapped | CCM V3.0.1 AS-02 | Dev lifecycle |
| 3 | | 5.2.1 | Core | Data Integrity | Dev lifecycle | Application & Interface Security | Data Integrity | Data input and output integrity routines (i.e., reconciliation and edit checks) shall be implemented for applications and databases to prevent manual or systematic processing errors, corruption of data, or misuse. | Unmapped | CCM V3.0.1 AS-03 | Dev lifecycle |
| 4 | | 5.2.1 | Core | Data Integrity | Dev lifecycle | Application & Interface Security | Data Security / Integrity | Policies and procedures shall be established and maintained in support of data security to include confidentiality, integrity, and availability across multiple system boundaries, jurisdictions, and business functions to prevent improper disclosure, corruption, or destruction. | Unmapped | CCM V3.0.1 AS-04 | Dev lifecycle |
| 5 | | 1.8.2 | Audit | Compliance | People & process | Audit Assurance & Compliance | Audit Planning | Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the effectiveness of the implementation of security operations. All audit activities must be agreed upon prior to executing any audits. | Unmapped | CCM V3.0.1 AAC-01 | CM V3.0.1 AAC-01 |
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DETAILED ROADMAP



CONFIRM STANDARDS FRAMEWORK

QUESTIONS, IDEAS OR COMMENTS?

Contact: bschofield@CDSAonline.org