AWS alignment with Motion Picture of America Association (MPAA) Content Security Model

The Motion Picture of America Association (MPAA) has added an additional set of best practices which is focused around applications and cloud security. These controls were added with the April 2015 MPAA update. For additional information on MPAA content security best practices refer to: http://www.fightfilmtheft.org/best-practice.html.

The table below was created by AWS to highlight the delta between the MPAA best practices published in 2013 and the MPAA best practices published in 2015.

• For any new control added to the 2015 MPAA best practices, see any rows highlighted in "green."

• For any control set which had a slight change between the 2013 MPAA best practices and the 2015 best practices, see any row highlighted in "blue."

- For any control set which was removed from the 2015 MPAA best practices, these controls were highlighted in "grey."

Security Topic	No.	AA Best Practices 2015 Best Practice	Security Topic	MP.	AA Best Practices 2013	Best Practice	AWS comments on the differences between 2015 and 2013 version
Security Topic	AS-1.0	Build security into the entire Systems/Software Development Lifecycle	Security Topic	No.		DEST PLACTICE	2015 MPAA added this control set.
	7.5 1.0	(SDLC).					2015 Hill / W Gaded Child Control Sec.
	AS-1.1	Test security across the entire application and infrastructure.					
	AS-1.2	Perform fuzz testing and defect remediation to discover security					
		loopholes in software, operating systems or networks by massive					
		inputting of random data to the system in an attempt to make it crash					
		(e.g., buffer overflow, cross-site scripting, denial of service attacks,					
	AS-1.3	format bugs, SQL injection).					
	AS-1.3	Perform bug tracking and defect remediation in conjunction with extensive black box testing, beta testing, and other proven debugging					
		methods.					
	AS-1.4	Provide training and user guides on additions and changes to the					
		application.					
	AS-2.0	Implement secure authentication.					2015 MPAA added this control set.
	AS-2.1	Register user devices.					
	AS-2.2	Implement secure password recovery.					
	AS-2.3	Follow the principle of least privilege.					
	AS-2.4 AS-2.5	Implement controls to prevent brute force attacks. Implement and document a process to secure key / cryptographic					
	A3-2.3	storage and ensure ongoing secure management.					
	AS-2.6	Enable an auto-expiration setting to expire all external links to content					
Authentication & Access		after a user-defined time.					
Authentication & Access	AS-2.7	Use human verification tools such as CAPTCHA or reCAPTCHA with web					
		applications.					
	AS-2.8	Provide clients with the ability to limit the number of times an asset					
		may be downloaded or streamed by a particular user.					
	AS-2.9	Confirm the upload and download of all content and critical assets.					
	AS-2.10	Include a brief message on mobile applications to remind users to					
	A3-2.10	enable device passwords and to enable remote wipe and device					
		location software.					
	AS-3.0	Perform penetration testing / web application security testing prior to					2015 MPAA added this control set.
		production deployment, and at least quarterly thereafter. Validate					
		vulnerabilities were remediated with a retest.					
	AS-3.1 AS-3.2	Perform vulnerability testing at least quarterly. Utilize cookies in a secure manner, if they need to be used					
	AS-3.2 AS-3.3	Validate user input and implement secure error handling.					
	AS-3.4	Implement secure logging procedures.					
	AS-3.5	Implement an SIEM (Security Information Event Management System)					
		to aggregate and analyze the disparate logs.					
	AS-3.6	Encrypt all content and client data at rest.					
Secure Coding and Systems	AS-3.7	Encrypt all content and client data in transit.					
	AS-3.8	Implement controls for secure session management.					
	AS-3.9 AS-3.10	Implement controls to prevent SQL injection. Implement controls to prevent unvalidated URL redirects and forwards.					
	A5-3.10	implement controls to prevent unvalidated ORL redirects and forwards.					
	AS-3.11	Implement controls to prevent connections from anonymity networks					
		(e.g., Tor, Freenet, Netshade), if possible.					
	AS-3.12	Implement controls to prevent IP address leakage.					
	AS-3.13	Implement controls to prevent XSS (Cross-site scripting).					
	AS-3.14	Allow senders the option to include session-based forensic (invisible)					
	AS-3.15	watermarking for content.					
	AS-3.15 CS-1.0	Implement a formal, documented content / asset lifecycle. Compliance with the MPAA Content Best Practices Common Guidelines					2015 MPAA added this control set.
	3-1.0	is required. Where stronger controls exist within the Application					2025 IIII / U GGGGG CHIS CONCIONSEC.
		Security and Cloud/Distributed Environment Guidelines, the stronger					
		policy will prevail.					
	CS-1.1	Perform a third party security audit at least once per year (e.g., SSAE 16					
		Type 2, SOC 1, ISO 27000/27001, MPAA).					
	CS-1.2	Document and implement security and privacy policies that are aligned					
		with security industry frameworks for Information Security					
	CS-1.3	Management (e.g., ISO-27001, ISO-22307, COBIT). Document and implement information security baselines for every					
	3-1.3	component of the infrastructure (e.g., Hypervisors, operating systems,					
		routers, DNS servers, etc.).					
	CS-1.4	Document and implement personnel security procedures that align					
		with the organization's current information security procedures.					
	CS-1.5	Require all employees, contractors, and third parties to sign					
		confidentiality / non-disclosure agreements when going through the					
		onboarding process.					

	MP	AA Best Practices 2015		MP	AA Best Practices 2013	AWS comments on the differences between 2015 and 2013 version
Security Topic	No.	Best Practice	Security Topic	No.	Best Practice	
	CS-1.6	Document and implement procedures for conducting security due				
		diligence when offloading functionality or services to a third party.				
Organization & Management	CS-1.7	Document and implement segregation of duties for business critical				
		tasks.				
	CS-1.8	Provide clients with information regarding locations for their content				
	CS-1.9	and data. Develop a documented procedure for responding to requests for client				
	C3=1.9	data from governments or third parties.				
	CS-1.10	Establish policies and procedures for labeling, handling, and securing				
		containers that contain data and other containers.				
	CS-1.11	Establish procedures for the secure deletion of content/data, including				
		archived and backed-up content/data.				
	CS-1.12	Establish, document and implement scenarios to clients in which client				
		content/data may be moved from one physical location to another.				
	CS-1.13	Establish, document and implement additional key management				
	C5 1.15	features, controls, policies and procedures.				
	CS-1.14	Train personnel regarding all policies and procedures.				
	CS-1.15	Establish a process to notify clients when material changes are made to				
		security/privacy policies.				
	CS-1.16	Plan, prepare and measure the required system performance to ensure				
	CC 1 17	acceptable service levels.				
	CS-1.17	Develop and maintain additional requirements for incident response and immediate notification to the client in the event of any				
		unauthorized access to systems or content.				
	CS-2.0	Secure datacenter utilities services and environmental conditions.				2015 MPAA added this control set.
	CS-2.1	Ensure the data center has appropriate perimeter and physical security				
		controls.				
	CS-2.2	Develop, document and maintain additional requirements for business				
		continuity planning.				
Operations	CS-2.3	Develop, document and maintain additional change and configuration controls.				
	CS-2.4	Maintain a complete inventory of all critical assets, including ownership				
	C3-2.4	of the asset.				
	CS-2.5	Maintain an inventory of all critical supplier relationships.				
	CS-2.6	Develop and maintain service level agreements (SLA's) with clients,				
		partners, and service providers.				
	CS-3.0	Implement a process to provide all relevant logs requested for good				2015 MPAA added this control set.
		cause to clients in a format that can be easily exported from the platform for analysis in the event of a security incident.				
		platform for analysis in the event of a security incident.				
	CS-3.1	Consider providing the capability to use system geographic location as				
		an additional authentication factor.				
	CS-3.2	Provide the capability to control the physical location/geography of				
		storage of a client's content/data, if requested.				
	CS-3.3	Establish procedures to ensure that non-production data must not be				
	CS-3.4	replicated to production environments. Establish, document and implement a published procedure for exiting				
	23-3.4	the service arrangement with a client, including assurance to sanitize				
		all computing systems of client content/data once the client contract				
		has terminated.				
	CS-3.5	Establish and document policies and procedures for secure disposal of				
		equipment, categorized by asset type, used outside the organization's				
Data Security	CC 2 C	premises.				
Data Security	CS-3.6	Implement a synchronized time service protocol (e.g., NTP) to ensure all systems have a common time reference.				
	CS-3.7	Design and configure network and virtual environments to restrict and				
		monitor traffic between trusted and untrusted connections.				
	CS-3.8	Design, develop and deploy multi-tenant applications, systems, and				
		components such that client content and data is appropriately				
	cc 2.0	segmented.				
	CS-3.9	Use secure and encrypted communication channels when migrating				
		physical servers, applications, and content data to/from virtual servers.				
	CS-3.10	Implement technical measures and apply defense-in-depth techniques				
		(e.g., deep-packet analysis, traffic throttling, black-holing) for detection				
		and timely response to network-based attacks associated with unusual				
		ingress/egress traffic patterns (e.g., NAC spoofing and ARP poisoning				
		attacks and/or DDOS attacks).				
	CC 2 11	Catalillah and days are to a state of the control o				
	CS-3.11	Establish and document controls to secure virtualized environments.				