



**REPORT ON MACSTADIUM, INC.'S HOSTED
INFRASTRUCTURE SYSTEM RELEVANT TO
SECURITY AND AVAILABILITY FOR THE PERIOD
SEPTEMBER 1, 2018 TO NOVEMBER 30, 2018**

SOC 3® - SOC for Service Organizations: Trust Services Criteria for General Use Report

TABLE OF CONTENTS

SECTION 1	
Independent Service Auditor's Report.....	3
SECTION 2	
Assertion of MacStadium, Inc. Management.....	6
SECTION 3	
MacStadium, Inc.'s Description of the Boundaries of Its Hosted Infrastructure System.....	8

SECTION 1

INDEPENDENT SERVICE AUDITOR'S REPORT

INDEPENDENT SERVICE AUDITOR'S REPORT

To: MacStadium, Inc. ("MacStadium")

Scope

We have examined MacStadium's accompanying assertion titled "Assertion of MacStadium, Inc. Management" (assertion) that the controls within MacStadium's Hosted Infrastructure System (system) were effective throughout the period September 1, 2018 to November 30, 2018, to provide reasonable assurance that MacStadium's service commitments and system requirements were achieved based on the trust services criteria relevant to security and availability (applicable trust services criteria) set forth in TSP Section 100A, *Trust Services Principles and Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy* (2016).

Service Organization's Responsibilities

MacStadium is responsible for its service commitments and system requirements and for designing, implementing, and operating effective controls within the system to provide reasonable assurance that MacStadium's service commitments and system requirements were achieved. MacStadium has also provided the accompanying assertion about the effectiveness of controls within the system. When preparing its assertion, MacStadium is responsible for selecting, and identifying in its assertion, the applicable trust service criteria and for having a reasonable basis for its assertion by performing an assessment of the effectiveness of the controls within the system.

Service Auditor's Responsibilities

Our responsibility is to express an opinion, based on our examination, on whether management's assertion that controls within the system were effective throughout the period to provide reasonable assurance that the service organization's service commitments and system requirements were achieved based on the applicable trust services criteria. Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform our examination to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

Our examination included:

- Obtaining an understanding of the system and the service organization's service commitments and system requirements.
- Assessing the risks that controls were not effective to achieve MacStadium's service commitments and system requirements based on the applicable trust services criteria.
- Performing procedures to obtain evidence about whether controls within the system were effective to achieve MacStadium's service commitments and system requirements based on the applicable trust services criteria.

Our examination also included performing such other procedures as we considered necessary in the circumstances.

Inherent Limitations

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls.

Because of their nature, controls may not always operate effectively to provide reasonable assurance that the service organization's service commitments and system requirements were achieved based on the applicable trust services criteria. Also, the projection to the future of any conclusions about the effectiveness of controls is subject to the risk that controls may become inadequate because of changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

In our opinion, management's assertion that the controls within MacStadium's Hosted Infrastructure System were effective throughout the period September 1, 2018 to November 30, 2018, to provide reasonable assurance that MacStadium's service commitments and system requirements were achieved based on the applicable trust services criteria is fairly stated, in all material respects.

Coalfire Controls LLC

Westminster, Colorado
January 25, 2019

SECTION 2

ASSERTION OF MACSTADIUM, INC. MANAGEMENT



Assertion of MacStadium, Inc. Management

We are responsible for designing, implementing, operating and maintaining effective controls within MacStadium, Inc.'s ("MacStadium") Hosted Infrastructure System (system) throughout the period September 1, 2018 to November 30, 2018, to provide reasonable assurance that MacStadium's service commitments and system requirements relevant to security and availability were achieved. Our description of the boundaries of the system is presented in Section 3 of this report and identifies the aspects of the system covered by our assertion.

We have performed an evaluation of the effectiveness of the controls within the system throughout the period September 1, 2018 to November 30, 2018, to provide reasonable assurance that MacStadium's service commitments and system requirements were achieved based on the trust services criteria relevant to security and availability (applicable trust services criteria) set forth in TSP Section 100A, *Trust Services Principles and Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy* (2016). MacStadium's objectives for the system in applying the applicable trust services criteria are embodied in its service commitments and system requirements relevant to the applicable trust services criteria. The principal service commitments and system requirements related to the applicable trust services criteria are presented in Section 3 of this report.

There are inherent limitations in any system of internal control, including the possibility of human error and the circumvention of controls. Because of these inherent limitations, a service organization may achieve reasonable, but not absolute, assurance that its service commitments and system requirements are achieved.

We assert that the controls within the system were effective throughout the period September 1, 2018 to November 30, 2018 to provide reasonable assurance that MacStadium's service commitments and system requirements were achieved based on the applicable trust services criteria.

MacStadium, Inc.

SECTION 3

MACSTADIUM, INC.'S DESCRIPTION OF THE BOUNDARIES OF ITS HOSTED INFRASTRUCTURE SYSTEM

COMPANY BACKGROUND

MacStadium, Inc. (“MacStadium” or “the Company”) is a privately-held company with corporate headquarters located in Atlanta, Georgia. MacStadium provides dedicated data center infrastructure-as-a-service solutions for DevOps teams, Software-as-a-Service providers, and Enterprise organizations around the world.

OVERVIEW OF SERVICE PROVIDED

MacStadium’s hosted infrastructure is primarily used by customers in the development, testing, and deployment of iOS and macOS software applications and may consist of the following technologies from vendors such as Apple, Cisco, Pure Storage, HPE, and VMware:

- Dedicated Network Routers and Switches
- Physical/Virtual Firewall Appliances
- Physical/Virtual Load Balancing Appliances
- Server/Desktop Computers
- Virtualization Software
- SAN/NAS/DAS Disk Storage
- Internet Connectivity/Transport
- IP Addressing

THE COMPONENTS OF THE SYSTEM USED TO PROVIDE THE SERVICES

INFRASTRUCTURE

Service is provided to Customers using IT equipment that is hosted in the following MacStadium private cage data center facilities:

- Atlanta, Georgia
- Las Vegas, Nevada
- Silicon Valley, California
- Dublin, Ireland
- Frankfurt, Germany

In order to deliver the services to customers, MacStadium has deployed the following hardware from various technology vendors in its internal management network:

- Network Routers
- Network Ethernet Switches
- FiberChannel Storage Switches
- Physical/Virtual Firewall Appliances
- Physical/Virtual Load Balancing Appliances
- Blade Servers

- SAN/NAS/DAS Disk Storage
- Internet Connectivity/Transport
- IP Addressing

SOFTWARE

The Company utilizes the following application programs and IT system software in support of the MacStadium infrastructure.

- MacStadium Internal Admin Portal
- MacStadium Customer Portal
- Application & Infrastructure Monitoring Applications
- Virtualization Management Software
- Backup and Replication Software
- Security Incident Event Management (SIEM) and Logging Systems
- Vulnerability & Patch Management Systems
- Advanced Anti-Virus & Anti-Malware Endpoint Protection
- Intrusion Detection and Prevention Systems

PEOPLE

Services are provided by MacStadium Operations, Security & Compliance, Customer Support, Sales, Account Management, Software Development, Product Development, Engineering, and Executive Management teams.

All MacStadium teams are recruited and managed using MacStadium policies and procedures which are described in the following sections.

PROCEDURES

MacStadium has the following security procedures and policies in place, which are owned by the Chief Information Security Officer:

- Security awareness
- Risk management
- Identity management
- Logical and physical access control
- Enterprise change management
- Incident / problem management
- Disaster recovery
- Backup and offsite storage
- Threat and vulnerability management
- Internal and external auditing
- Full software development lifecycle

Policies are reviewed at least annually and may be reviewed more frequently if necessary. Members of the Security Executive Committee are authorized to perform reviews of policies with final approval for changes from the Chief Information Security Officer in conjunction with other senior management. Approvals are documented electronically as they occur. Any changes to the policies are then communicated to employees electronically and are posted on an internal SharePoint site accessible to employees.

To mitigate any potential for loss or exploitation of sensitive data, MacStadium maintains a data classification policy to determine whether the appropriate controls are in place for data of higher sensitivity. This policy classifies data into categories and specifies protection accordingly.

DATA

MacStadium does not electronically access data within the Customer's dedicated infrastructure environment. All Customer data is managed, transmitted, and stored within their environment at their sole discretion. Customer data is handled in accordance with relevant data protection and other regulations, with any specific requirements formally established in customer contracts and service orders.

The Company has deployed secure methods and protocols for transmission of confidential and/or sensitive information over public networks.

COMMITMENTS AND SYSTEM REQUIREMENTS

COMMITMENTS

Commitments are declarations made by management to customers regarding the performance of the MacStadium infrastructure. Commitments are communicated in customer contracts. The Company's commitments include the following:

- MacStadium makes commitments to system availability as specified under customer contracts.
- MacStadium will maintain a program of physical security that contains administrative, technical, and physical safeguards appropriate to the complexity, nature, and scope of its activities.
- MacStadium shall ensure that its physical security measures are regularly reviewed and revised to address evolving threats and vulnerabilities.

The Company provides external users with guidelines and technical support resources relating to system operations on the Company's website. The Company provides an external-facing support system and contact information to allow users to report system information on failures, incidents, concerns, and other complaints to appropriate personnel. The Company notifies customers of critical changes that may affect their processing.

SYSTEM REQUIREMENTS

System requirements are specifications regarding how MacStadium infrastructure should function to meet the Company's commitments to customers. Requirements are specified in the Company's policies and procedures, which are available to all employees. The Company's system requirements include the following:

- Employee provisioning and deprovisioning standards
- Logical access controls such as use of user IDs and passwords to access systems
- Risk assessment standards
- Change management controls
- Monitoring controls