



Managed Services | IT Consulting | Data Center

GENERAL CONTROLS SUPPORTING THE DATA CENTER AND MANAGED SERVICES

SOC 1-SSAE 18 Type II Audit Report

*Independent Service Auditor's Report on a
Description of a Service Organization's
System and the Suitability of the Design and
Operating Effectiveness of the Controls*

For the Period June 1, 2019 to May 31, 2020



INDEPENDENT SERVICE AUDITOR'S REPORT

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SECTION 1

INDEPENDENT SERVICE AUDITOR'S REPORT

Independent Service Auditor's Report on a Description of a Service Organization's System and the Suitability of the Design and Operating Effectiveness of Controls

To: designDATA,

Scope

We have examined designDATA's (designDATA) description of its data center and managed services and systems entitled "Description of the Service Organization's System Provided by designDATA Management" for processing user entities' transactions throughout the period June 1, 2019 to May 31, 2020 (description) and the suitability of the design and operating effectiveness of the controls included in the description to achieve the related control objectives stated in the description, based on the criteria identified in "Assertions by the Service Organization's Management" (assertion). The controls and control objectives included in the description are those that management of designDATA believes are likely to be relevant to user entities' internal control over financial reporting, and the description does not include those aspects of the data center and managed services and systems that are not likely to be relevant to user entities' internal control over financial reporting.

The description indicates that certain control objectives specified in the description can be achieved only if complementary user entity controls assumed in the design of designDATA's controls are suitably designed and operating effectively, along with related controls at the service organization. Our examination did not extend to such complementary user entity controls, and we have not evaluated the suitability of the design or operating effectiveness of such complementary user entity controls.

designDATA uses various third party data centers (subservice organizations) to house its critical production computer servers, applications and networking equipment. The description includes only the control objectives and related controls of designDATA and excludes the control objectives and related controls of the subservice organizations. The description also indicates that certain control objectives specified by designDATA can be achieved only if complementary subservice organization controls assumed in the design of designDATA's controls are suitably designed and operating effectively, along with the related controls at designDATA. Our examination did not extend to controls of the subservice organizations, and we have not evaluated the suitability of the design or operating effectiveness of such complementary subservice organization controls.

Service organization's responsibilities

In Section 2, designDATA has provided an assertion about the fairness of the presentation of the description and suitability of the design and operating effectiveness of the controls to achieve the related control objectives stated in the description. designDATA is responsible for preparing the description and assertion, including the completeness, accuracy, and method of presentation of the description and assertion, providing the services covered by the description, specifying the control objectives and stating them in the description, identifying the risks that threaten the achievement of the control objectives, selecting the criteria stated in the assertion, and designing, implementing, and documenting controls that are suitably designed and operating effectively to achieve the related control objectives stated in the description.

Service auditor's responsibilities

Our responsibility is to express an opinion on the fairness of the presentation of the description and on the suitability of the design and operating effectiveness of the controls to achieve the related control objectives stated in the description, based on our examination.

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 the examination to obtain reasonable assurance about whether, in all material respects, based on the criteria in management's assertion, the description is fairly presented and the controls were suitably designed and operating effectively to achieve the related control objectives stated in the description throughout the period June 1, 2019 to May 31, 2020. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

An examination of a description of a service organization's system and the suitability of the design and operating effectiveness of controls involves—

- performing procedures to obtain evidence about the fairness of the presentation of the description and the suitability of the design and operating effectiveness of the controls to achieve the related control objectives stated in the description, based on the criteria in management's assertion.
- assessing the risks that the description is not fairly presented and that the controls were not suitably designed or operating effectively to achieve the related control objectives stated in the description.
- testing the operating effectiveness of those controls that management considers necessary to provide reasonable assurance that the related control objectives stated in the description were achieved.
- evaluating the overall presentation of the description, suitability of the control objectives stated in the description, and suitability of the criteria specified by the service organization in its assertion.

Inherent limitations

The description is prepared to meet the common needs of a broad range of user entities and their auditors who audit and report on user entities' financial statements and may not, therefore, include every aspect of the system that each individual user entity may consider important in its own particular environment. Because of their nature, controls at a service organization may not prevent, or detect and correct, all misstatements in processing or reporting transactions. Also, the projection to the future of any evaluation of the fairness of the presentation of the description, or conclusions about the suitability of the design or operating effectiveness of the controls to achieve the related control objectives, is subject to the risk that controls at a service organization may become ineffective.

Description of tests of controls

The specific controls tested and the nature, timing, and results of those tests are listed in Section 4, the "Testing Matrices."

Opinion

In our opinion, in all material respects, based on the criteria described in designDATA's assertion—

- a. the description fairly presents the data center and managed services and systems that were designed and implemented throughout the period June 1, 2019 to May 31, 2020.
- b. the controls related to the control objectives stated in the description were suitably designed to provide reasonable assurance that the control objectives would be achieved if the controls operated effectively throughout the period June 1, 2019 to May 31, 2020 and user entities and subservice organizations applied the complementary controls assumed in the design of designDATA's controls throughout the period June 1, 2019 to May 31, 2020.

- c. the controls operated effectively to provide reasonable assurance that the control objectives stated in the description were achieved throughout the period June 1, 2019 to May 31, 2020 if complementary user entity and subservice organization controls assumed in the design of designDATA's controls operated effectively throughout the period June 1, 2019 to May 31, 2020.

Restricted use

This report, including the description of tests of controls and results thereof in Section 4, is intended solely for the information and use of management of designDATA, user entities of designDATA's data center and managed services and systems during some or all of the period June 1, 2019 to May 31, 2020, and their auditors who audit and report on such user entities' financial statements or internal control over financial reporting and have a sufficient understanding to consider it, along with other information, including information about controls implemented by user entities themselves, when assessing the risks of material misstatement of user entities' financial statements. This report is not intended to be, and should not be, used by anyone other than the specified parties.

The Moore Group CPA, LLC

Nashua, NH
June 10, 2020

SECTION 2

**ASSERTIONS BY THE
SERVICE ORGANIZATION'S MANAGEMENT**

MANAGEMENT ASSERTION OF DESIGNDATA

The Moore Group CPA, LLC
Nashua, NH 03060

We have prepared the description of designDATA's (designDATA) data center and managed services and systems entitled "Description of the Service Organization's System Provided by designDATA Management," for processing user entities' transactions throughout the period June 1, 2019 to May 31, 2020 (description) for user entities of the system during some or all of the period June 1, 2019 to May 31, 2020, and their auditors who audit and report on such user entities' financial statements or internal control over financial statement reporting and have a sufficient understanding to consider it, along with other information, including information about controls implemented by subservice organizations and user entities of the system themselves when assessing the risks of material misstatements of user entities' financial statements.

designDATA uses various third party data centers (subservice organizations) to house its critical production computer servers, applications, and networking equipment. The description includes only the control objectives and related controls of designDATA and excludes the control objectives and related controls of the third party data centers. The description also indicates that certain control objectives specified in the description can be achieved only if complementary subservice organization controls assumed in the design of our controls are suitably designed and operating effectively, along with the related controls. The description does not extend to controls of the subservice organizations.

The description indicates that certain control objectives specified in the description can be achieved only if complementary user entity controls assumed in the design of designDATA's controls are suitably designed and operating effectively, along with related controls at the service organization. The description does not extend to controls of the user entities.

We confirm, to the best of our knowledge and belief, that:

- 1) The description fairly presents the data center and managed services and systems made available to user entities of the system during some or all of the period June 1, 2019 to May 31, 2020 for processing user entities' transactions as it relates to controls that are likely to be relevant to user entities' internal control over financial reporting. The criteria we used in making this assertion were that the description:
 - a) Presents how the system made available to user entities of the system was designed and implemented to process relevant user entity transactions, including, if applicable:
 - i) The types of services provided, including, as appropriate, the classes of transactions processed.
 - ii) The procedures, within both automated and manual systems, by which those services are provided, including, as appropriate, procedures by which transactions are initiated, authorized, recorded, processed, corrected as necessary, and transferred to the reports and other information prepared for user entities of the system.
 - iii) The information used in the performance of the procedures including, if applicable, related accounting records, whether electronic or manual, and supporting information involved in initiating, authorizing, recording, processing, and reporting transactions; this includes the correction of incorrect information and how information is transferred to the reports and other information prepared for user entities.
 - iv) How the system captures and addresses significant events and conditions other than transactions.

- v) The process used to prepare reports and other information for user entities.
 - vi) The services performed by a subservice organization, if any, including whether the carve-out method or the inclusive method has been used in relation to them.
 - vii) The specified control objectives and controls designed to achieve those objectives including, as applicable, complementary user entity controls and complementary subservice organization controls assumed in the design of the controls.
 - viii) Other aspects of our control environment, risk assessment process, information and communications (including the related business processes), control activities, and monitoring activities that are relevant to the services provided.
- b) Includes relevant details of changes to the data center and managed services and systems during the period covered by the description.
 - c) Does not omit or distort information relevant to the system, while acknowledging that the description is prepared to meet the common needs of a broad range of user entities of the system and their user auditors and may not, therefore, include every aspect of the data center and managed services and systems that each individual user entity of the system and its auditor may consider important in its own particular environment.
- 2) The controls related to the control objectives stated in the description were suitably designed and operating effectively throughout the period June 1, 2019 to May 31, 2020 to achieve those control objectives if subservice organizations and user entities applied the complementary controls assumed in the design of designDATA's controls throughout the period June 1, 2019 to May 31, 2020. The criteria we used in making this assertion were that:
- a) The risks that threaten the achievement of the control objectives stated in the description have been identified by management.
 - b) The controls identified in the description would, if operating effectively, provide reasonable assurance that those risks would not prevent the control objectives stated in the description from being achieved.
 - c) The controls were consistently applied as designed, including whether manual controls were applied by individuals who have the appropriate competence and authority.

SECTION 3

DESCRIPTION OF THE SERVICE ORGANIZATION'S SYSTEM PROVIDED BY DESIGNDATA MANAGEMENT

DESCRIPTION OF CONTROLS PLACED IN OPERATION

OVERVIEW OF OPERATIONS

Company Background

Founded in 1979, designDATA is a leading IT services company serving the Washington, DC metropolitan area. The company focuses on three lines of business:

- Data Center – A top-of-the-line Tier 4 facility providing three services to designDATA: vHOST Cloud Servers, co-location of customer owned equipment, and data replication services for the purposes of disaster recovery and business continuity.
- Managed Services / Outsourced IT – The day-to-day network administration duties, 24/7 monitoring, and helpdesk services for staff, bundled into a predictable monthly fee.
- IT Consulting – This group provides IT assessments, strategic planning, business process re-engineering, disaster recovery and business continuity planning, database system selection, PCI compliance, data center initiatives, and web strategies.

designDATA's staff of over 80 technology professionals works to ensure that their technology services are planned, implemented and managed to align with their client's business objectives.

Description of Services Provided

The scope of this audit includes the Data Center and Managed Services of designDATA which includes, but is not limited to, the following:

Data Center Services

Co-Locating in designDATA's data center offers several distinct advantages over traditional premise-based server rooms such as:

- A physical location outside of the immediate metropolitan area
- High level of premise security including 24x7 manned security, man traps, and biometric scanning equipment
- Private caged equipment
- Multiple divergent internet carriers for redundancy
- Redundant power, battery backup, and generator power
- Redundant cooling and environmental controls.

designDATA provides customers with a wide range of options intended to give clients flexibility in choosing their data center needs. These datacenter options include:

- Co-Location Options – With this option, customer-owned server equipment is physically located in designDATA's tier-one data center.
- vHost – designDATA manages a server farm of redundant enterprise hardware, running private, secured, dedicated Application servers, with a 99.99% service level agreement.
- Fiber Optic Connectivity – designDATA, via a network of local metropolitan based carriers, lights fiber optic lines from customer networks directly to the designDATA datacenter in Sterling, VA. These connections connect at interface speeds of 100mb, 1Gb, or 10 Gb per second.
- Metro Ethernet - vHost and Co-Location customers can utilize designDATA's network of EFM (Ethernet First Mile) providers to light high-speed metro Ethernet fiber.
- Disaster Recovery - designDATA customers electing to manage equipment in their own server room may choose to leverage the data center for disaster recovery purposes.
- Data Backup - Replication of customer data from their server room to the designDATA data center.

Managed Services

Managed Services can be broadly defined as transferring the day-to-day administration of a client company's distributed computer systems to designDATA. Engaging designDATA's Managed Services team is like staffing an organization with a CIO, Network Administrators, Security and Communications Engineers, a Helpdesk Engineering team, a purchasing department and a suite of management tools and processes that have normally been available to only large organizations.

designDATA's Managed Services includes, but is not limited to, the following at a predictable monthly fee:

- A dedicated team of senior network engineers assigned for each client account
- Unlimited helpdesk services
- Monitoring of client servers 24x7
- Patching of client servers and desktop computer systems
- On-site service as required or prescheduled visits
- Backup of client data to a secure tier-4 datacenter
- Managed firewall and network security services
- Initial systems assessment and documentation
- Monthly system health reports
- Periodic CIO strategy sessions.

The components of the system used to provide the services are as follows:

Infrastructure

Subservice Organizations - designDATA utilizes a secure third party datacenter known as Cyxtera, located in Washington, DC. This data center continues to provide co-location services to top tier

customers for critical production servers and systems. Cyxtera had SOC 1 Type II and SOC 2 Type II audits completed for the review period of July 1, 2018 to June 30, 2019. The scope of this audit does not include the controls of Cyxtera. A summary of the physical and environmental security controls of Cyxtera is outlined in Section 5 of this report.

To further provide top tier data services to their customers, designDATA also utilizes a secure third party data center known as ByteGrid Holdings LLC ("BYTEGRID"), located in Silver Spring, Maryland. This data center continues to provide co-location services to top tier customers for critical production servers and systems. BYTEGRID had a SOC 2 Type 2 audit completed for the review period of January 1, 2018 to December 31, 2018. The scope of this audit does not include the controls of BYTEGRID. A summary of the physical and environmental security controls of BYTEGRID is outlined in Section 5 of this report.

designDATA's main corporate office is in Gaithersburg, Maryland. A proximity card security system is utilized by designDATA. Environmental controls include but are not limited to fire detection and wet pipe sprinkler systems throughout the facility. UPS systems provide power in the event of disruption of the main power feed, allowing for gradual, safe shutdown of critical computer systems.

Redundant architecture is in place, including:

- Redundant servers for critical systems
- Firewalls configured in an active-passive configuration
- Switches
- Network interface cards (NICs)
- Power supplies
- RAID storage.

Servers and workstations utilize anti-virus endpoint protection, which is kept properly updated and conducts routine scans. Patches for critical production servers are updated manually to ensure adequate testing and that no production interference will result. Workstations are automatically updated.

Software

A combination of custom developed and commercial applications are utilized to support the data center and managed services provided to user organizations. The applications run on Windows Server Operating Systems, VMWare high availability clusters, and storage area networks (SANs) with commercial databases to support the applications.

People

designDATA is led by its President and CEO, Matthew Ruck, and executives in the departmental areas of Technology, Finance, and Customer Service. designDATA's organization structure provides the overall framework for planning, directing, and controlling operations. Personnel and business functions are separated into departments according to job responsibilities. The structure provides defined responsibilities and lines of authority for reporting and communication. The assignment of roles and responsibilities within the various departments provides effective segregation of duties.

In the Control Environment section of this report, additional information is described related to organizational controls implemented at designDATA. These organizational controls are intended to serve as the internal foundation from providing services to its customers.

Procedures

designDATA has implemented processes and procedures to support the operations and controls over the services and systems provided to its customers. Specific examples of the relevant procedures include, but are not limited to, the following:

- Policies and procedures are in place to guide personnel regarding assessing risks on a periodic basis.
- Security policies are in place to guide personnel regarding physical and information security practices.
- Policies and procedures are in place for identifying the system security requirements of authorized users.
- Third party enterprise monitoring applications are used to monitor and record performance criteria for critical designDATA server and network equipment.
- An Incident Response plan is in place to ensure appropriate response to outages or security incidents in an organized and timely manner and to properly document them.
- Policies and procedures are in place to guide personnel regarding addressing how complaints and requests relating to security issues are resolved.
- Policies and procedures are in place to assign responsibility and accountability for system changes and maintenance.
- Policies and procedures are in place to guide personnel regarding identifying and mitigating security breaches and other incidents.
- designDATA IT personnel utilize security issue monitoring services to keep abreast of recent critical issues, attacks and vulnerabilities that must be addressed immediately.
- Firewall systems are in place to screen data flow between external parties and the designDATA network.
- designDATA actively utilizes the following firewall features for protection at the perimeter of the network and between network segments:
 - Stateful packet inspection
 - IPsec / Remote Ethernet Device (RED) site-to-site tunnels
 - TLS client-based VPN
 - Intrusion Detection and Prevention
 - Advance Threat Protection
 - Logging and
 - Reporting.
- Policies and procedures are in place to add new users, modify the access levels of existing users, and remove users who no longer need access.
- Users are required to authenticate via a unique user ID and password before being granted access to designDATA internal network domain.
- Physical security policies and procedures are in place to guide personnel regarding restricting access to the facility.
- Third party antivirus software is installed on all designDATA servers (endpoint protection).
- Management periodically performs internal security assessments, including reviews of server logs and other critical items.
- Policies and procedures are in place to ensure that design, acquisition, implementation, configuration, modification, and management of infrastructure and software are consistent with defined system security policies to enable authorized access and to prevent unauthorized access.
- Policies and procedures are in place to ensure that change management processes are initiated when deficiencies in the design or operating effectiveness of controls are identified during system operation and monitoring.

Data

Access to data is limited to authorized personnel in accordance with designDATA's system security policies. designDATA is also responsible for the overall availability of data, including system backups, monitoring of data processing, and file transmissions as well as identifying and resolving problems.

A third party automated backup application (Veeam) is utilized to perform scheduled system image-based disk-to-disk backups. This results in multiple copies of production data, including:

1. Production data
2. Backup copy on Exagrid appliance
3. Replicated copy at redundant data center
4. Monthly copy to tape is also made, which is stored with AES 256 bit encryption.

Controls in place specific to the data responsibilities of designDATA include, but are not limited to, the following:

- Employees must sign a confidentiality and non-disclosure agreement to not disclose proprietary or confidential information, including client information, to unauthorized parties.
- Firewall systems are in place to screen data flow between external parties and the designDATA network.
- designDATA actively utilizes the following firewall features for protection at the perimeter of the network and between network segments:
 - Stateful packet inspection
 - IPsec / Remote Ethernet Device (RED) site-to-site tunnels
 - TLS client-based VPN
 - Intrusion Detection and Prevention
 - Advance Threat Protection
 - Logging and
 - Reporting.
- Policies and procedures are in place to guide personnel regarding sharing information with third parties

CONTROL ENVIRONMENT

Integrity and Ethical Values

The effectiveness of controls cannot rise above the integrity and ethical values of the people who create, administer, and monitor them. Integrity and ethical values are essential elements of designDATA's control environment, affecting the design, administration, and monitoring of other components. Integrity and ethical behavior is the product of designDATA's ethical and behavioral standards, how they are communicated, and how they are reinforced in daily practice.

These standards include management's actions to remove or reduce incentives and temptations that might prompt personnel to engage in dishonest, illegal, or unethical acts. They also include the communication of entity values and behavioral standards to personnel through policy statements and codes of conduct, and by personal example.

Specific control activities that designDATA has implemented in this area are described below.

- designDATA maintains an **employee handbook**, which contains organizational policy statements, behavioral standards, codes of conduct and disciplinary policies to which all employees are required to adhere.
- Policies and procedures require that new employees sign an **employee handbook acknowledgment form** indicating that they have been given access to it, and understand their responsibility for adhering to the standards, policies and procedures contained within the handbook. The signed form is kept in the employee personnel file.
- Employees must sign a **confidentiality and non-disclosure agreement** to not disclose proprietary or confidential information, including client information, to unauthorized parties.
- Periodic **meetings with staff** are conducted whereby the core values and mission of designDATA are discussed as well as ways to reinforce and improve the components of designDATA's related core functions.
- Comprehensive **background checks** are performed by an independent third party for certain positions as a component of the hiring process.
- Management personnel perform **reference checks** on all candidates being considered for certain positions within designDATA.
- *Contract employees (1099)* must sign a **confidentiality and non-disclosure agreement** to not disclose proprietary or confidential information, including client information, to unauthorized parties.
- Comprehensive **background checks** are performed by an independent third party for *contract employees (1099)* as a component of the hiring process.
- Management maintains **insurance coverage** to protect against dishonest acts that may be committed by personnel.

Commitment to Competence

designDATA's management defines competence as the knowledge and skills necessary to accomplish tasks that define employees' roles and responsibilities. designDATA's commitment to competence includes management's consideration of the competence levels for particular jobs and how those levels translate into requisite skills and knowledge.

Specific control activities that designDATA has implemented in this area are described below.

- Management has considered the competence levels for particular jobs and translated required skills and knowledge levels into **written position requirements** that delineate employee responsibilities and authority.
- Roles and responsibilities for company personnel **to interact with and monitor the activities of external third party information technology vendors** are defined in written job descriptions and communicated to personnel.
- Management utilizes **skills assessment testing** for certain positions during the hiring process.
- Management has developed a **formal training and development program** for employees. This includes:
 - **Initial** training with peers and supervisors in the period immediately after hire.
 - **Ongoing training** to maintain and enhance the skill level of personnel on an as-needed basis.
- Management encourages employees to complete and continue **formal education** and technical certification programs.
- Management-approved **professional development expenses** incurred by the employees are paid by designDATA.
- Employees undergo an **annual performance review** which includes discussions related to their performance related to internal control responsibilities such as data and systems security. A formal evaluation is prepared and is maintained in the employee's HR file.
- designDATA utilizes a **third party financial services** firm to prepare annual tax returns.

Board of Directors' Participation

designDATA's control consciousness is influenced significantly by its Board of Directors participation. The Board of Directors oversees management activities and meets semi-annually to discuss strategic, operational, and compliance issues.

Management's Philosophy and Operating Style

designDATA's management philosophy and operating style encompasses a broad range of characteristics. Such characteristics include management's approach to taking and monitoring business risks and management's attitudes toward the data center and managed services, information processing, accounting functions and personnel. Management is periodically briefed on regulatory and industry changes affecting services provided. Management meetings are held on a periodic basis to discuss and monitor operational issues.

Specific control activities that designDATA has implemented in this area are described below.

- Management is guided by designDATA's corporate **mission statement** in determining the implementation of corporate goals and operational activities to meet them.
- Management regularly attends **trade shows**, utilizes **trade and regulatory publications, journals, online news feeds and government sites**, and belongs to **industry associations** to stay current on regulatory compliance or operational trends affecting the services provided.
- **Management meetings** are held on a regular basis to discuss operational planning and budgeting, human resource planning and hiring, and customer related issues. Meeting agendas and meeting minutes are recorded and communicated to relevant personnel.
- Operational meetings are held on a regular basis to **discuss internal control responsibilities (data and system security)** of individuals and performance measurement.
- designDATA utilizes a **third party financial services** firm to prepare annual tax returns.

Organizational Structure and Assignment of Authority and Responsibility

designDATA's organizational structure provides the framework within which its activities for achieving entity-wide objectives are planned, executed, controlled, and monitored. designDATA's management believes that establishing a relevant organizational structure includes considering key areas of authority and responsibility and appropriate lines of reporting. designDATA has developed an organizational structure suited to its needs. This organizational structure is based, in part, on its size and the nature of its activities.

designDATA's assignment of authority and responsibility activities include factors such as how authority and responsibility for operating activities are assigned and how reporting relationships and authorization hierarchies are established. It also includes policies relating to appropriate business practices, knowledge and experience of key personnel, and resources provided for carrying out duties. In addition, it includes policies and communications directed at ensuring that all personnel understand the entity's objectives, know how their individual actions interrelate and contribute to those objectives, and recognize how and for what they will be held accountable.

Specific control activities that designDATA has implemented in this area are described below.

- **Organizational charts** are in place to communicate key areas of authority, responsibility, and appropriate lines of reporting to personnel. These charts are communicated to employees and are updated as needed.
- designDATA's **organizational structure** is traditional, with clear lines of authority and responsibility. Autonomy within departments is allowed to a reasonable extent to provide for innovative approaches to managing the company, with close oversight maintained by the CEO.
- designDATA's **operating goals and objectives are communicated** to the entire organization during regular staff meetings, employee performance reviews, and other written communications.
- designDATA provides an **employee orientation program** that communicates organizational structure and responsibility, company and departmental objectives, and relationships between departments and personnel.

- designDATA has established a **segregation of duties process**, which is based upon changes and recommendations from management.

Human Resource Policies and Practices

designDATA's human resources policies and practices relate to employee hiring, orientation, training, evaluation, counseling, promotion, compensation, and disciplinary activities.

Specific control activities that designDATA has implemented in this area are described below.

- Management has established **hiring guidelines and procedures** that guide the hiring process to ensure that specific elements of the hiring process are consistently executed. This includes the use of an independent, outsourced HR services provider.
- Human Resources management utilizes an **onboarding checklist** to ensure that specific elements of the hiring process are consistently executed. A copy of the onboarding checklist is maintained in the employee file.
- Comprehensive **background checks** are performed by an independent third party for certain positions as a component of the hiring process.
- Management personnel perform **reference checks** on all candidates being considered for certain positions within designDATA.
- Comprehensive **background checks** are performed by an independent third party for *contract employees (1099)* as a component of the hiring process.
- designDATA maintains an **employee handbook**, which contains organizational policy statements, behavioral standards, codes of conduct and disciplinary policies to which all employees are required to adhere.
- Management has developed a **formal training and development program** for employees. This includes:
 - **Initial** training with peers and supervisors in the period immediately after hire.
 - **Ongoing training** to maintain and enhance the skill level of personnel on an as-needed basis.
- Employees undergo an **annual performance review** which includes discussions related to their performance related to internal control responsibilities such as data and systems security. A formal evaluation is prepared and is maintained in the employee's HR file.
- Management has established **employee termination procedures** that guide the termination process.
- Human Resources management utilizes a **termination checklist** to ensure that specific elements of the termination process are consistently executed. This includes but is not limited to the terminated employee's physical and logical access to company facilities and computer systems. The checklist is retained in the employee files.

RISK ASSESSMENT

Management is responsible for identifying the risks that threaten achievement of the control objectives stated in the management's description of the services and systems. Management has implemented a process for identifying relevant risks. This process includes estimating the significance of identified risks, assessing the likelihood of their occurrence, and deciding about actions to address them. However, because control objectives relate to risk that controls seek to mitigate, management thoughtfully identified control objectives when designing, implementing, and documenting their system.

Objective Setting

designDATA establishes objectives in order for management to identify potential events affecting their achievement. designDATA has placed into operation a risk management process to set objectives and that the chosen objectives support and align with the organization's mission and are consistent with its risk framework. Objective setting enables management to identify measurement criteria for performance, with focus on success factors.

designDATA has established certain broad categories including:

- **Strategic Objectives** — these pertain to the high level organizational goals and the alignment of those goals to support the overall mission
- **Operations Objectives** — these pertain to effectiveness and efficiency of the entity's operations, including performance and profitability goals and safeguarding of resources against loss
- **Reporting Objectives** — these pertain to the preparation of reliable reporting
- **Compliance Objectives** — these pertain to adherence to laws and regulations to which the entity is subject

Risks Identification

Regardless of whether an objective is stated or implied, an entity's risk-assessment process should consider risks that may occur. It is important that risk identification be comprehensive. designDATA has considered significant interactions between itself and relevant external parties and risks that could affect the organization's ability to provide reliable service to its user organizations.

Management considers risks that can arise from both external and internal factors including:

External Factors

- Technological developments
- Changing customer needs or expectations
- Competition that could alter marketing or service activities
- New legislation and regulation that could force changes in policies and strategies
- Natural catastrophes that could lead to changes in operations or information systems
- Economic changes that could have an impact on management decisions

Internal Factors

- Significant changes in policies, processes, or personnel
- Types of fraud
- Fraud incentives, pressures, and opportunities for employees, as well as employee attitudes and rationalizations for fraud
- A disruption in information systems processing
- The quality of personnel hired and methods of training utilized
- Changes in management responsibilities

The designDATA risk assessment process focuses on supporting management decisions and responding to potential threats by assessing risks and identifying important decision factors. designDATA senior management oversees risk management ownership, accountability, and is involved in risk identification process. Management identifies elements of business risk including threats, vulnerabilities, safeguards and the likelihood of a threat, to determine the actions to be taken.

Risks Analysis

designDATA's methodology for analyzing risks varies, largely because many risks are difficult to quantify. Nonetheless, the process includes:

- Estimating the significance of a risk
- Assessing the likelihood (or frequency) of the risk occurring
- Considering how the risk should be managed, including an assessment of what actions need to be taken

Risk analysis is an essential process to the entity's success. It includes identification of key business processes where potential exposures of some consequence exist. Once the significance and likelihood of risk have been assessed, management considers how the risk should be managed. This involves judgment based on assumptions about the risk, and reasonable analysis of costs associated with reducing the level of risk. Necessary actions are taken to reduce the significance or likelihood of the risk occurring.

CONTROL OBJECTIVES AND RELATED CONTROL ACTIVITIES

Integration with Risk Assessment

Along with assessing risks, management has identified and put into effect actions needed to address those risks. In order to address risks, control activities have been placed into operation to help ensure that the actions are carried out properly and efficiently. Control activities serve as mechanisms for managing the achievement of those objectives.

Selection and Development of Control Activities

Control activities are a part of the process by which designDATA strives to achieve its business objectives. designDATA has applied a risk management approach to the organization in order to select and develop control activities. After relevant risks have been identified and evaluated, controls are established, implemented, monitored, reviewed and improved when necessary to meet the overall objectives of the organization.

designDATA's control objectives and related control activities are included in Section 4 (the "Testing Matrices") of this report to eliminate the redundancy that would result from listing the items in this section and repeating them in the Testing Matrices. Although the control objectives and related control activities are included in the Testing Matrices, they are, nevertheless, an integral part of designDATA's description of controls.

The description of the service auditor's tests of operating effectiveness and the results of those tests are also presented in the Testing Matrices, adjacent to the service organization's description of controls. The description of the tests of operating effectiveness and the results of those tests are the responsibility of the service auditor and should be considered information provided by the service auditor.

MONITORING

designDATA's management performs monitoring activities in order to continuously assess the quality of internal control over time. Monitoring activities are used to initiate corrective action through department meetings, client conference calls, and informal notifications. Management performs monitoring activities on a continuous basis and necessary corrective actions are taken as required to correct deviations from company policy and procedures.

Ongoing and Separate Evaluations of the Control Environment

Monitoring can be done in two ways: through ongoing activities or separate evaluations. The greater the degree and effectiveness of ongoing monitoring, the less the need is for separate evaluations. Management determines the need for separate evaluations by consideration given to the following: the nature and degree of changes occurring and their associated risks, the competence and experience of the people implementing the controls, as well as the results of the ongoing monitoring. Management has implemented a combination of ongoing monitoring and separate evaluations, as deemed necessary; to help ensure that the internal control system maintains its effectiveness over time.

Ongoing Monitoring

Examples of designDATA's ongoing monitoring activities include the following:

- In carrying out its regular management activities, operating management obtains evidence that the system of internal control continues to function.
- Communications from external parties and customers corroborate internally generated information or indicate problems.
- Organizational structure and supervisory activities provide oversight of control functions and identification of deficiencies.
- Training, planning sessions, and other meetings provide important feedback to management on whether controls are effective.
- Personnel are briefed on organizational policy statements and codes of conduct to communicate entity values.

Separate Evaluations

Evaluation of an entire internal control system may be prompted by a number of reasons: major strategy or management change, major acquisitions or dispositions, or significant changes in operations or methods of processing financial information. Evaluations of internal control vary in scope and frequency, depending on the significance of risks being controlled and importance of the controls in reducing the risks. Controls addressing higher-priority risks and those most essential to reducing a given risk will tend to be evaluated more often.

Often, evaluations take the form of self-assessments, where persons responsible for a particular unit or function will determine the effectiveness of controls for their activities. These assessments are considered by management, along with any other internal control evaluations. The findings of these efforts are utilized to ensure follow-up actions are taken and subsequent evaluations are modified as necessary.

Reporting Deficiencies

Deficiencies in management's internal control system surface from many sources, including designDATA's ongoing monitoring procedures, separate evaluations of the internal control system and external parties. Management has developed protocols to help ensure findings of internal control deficiencies are reported not only to the individual responsible for the function or activity involved, who is in the position to take corrective action, but also to at least one level of management above the directly responsible person. This process enables that individual to provide needed support or oversight for taking corrective action, and to communicate with others in the organization whose activities may be affected. Management evaluates the specific facts and circumstances related to deficiencies in internal control procedures and makes the decision for addressing deficiencies based on whether the incident was isolated or requires a change in designDATA's procedures or personnel.

INFORMATION AND COMMUNICATION SYSTEMS

Information Systems

A combination of custom developed and commercial applications are utilized to support the data center and managed services provided to user organizations. The applications run on Windows Server Operating Systems, VMWare high availability clusters, and storage area networks (SANs) with commercial databases to support the applications.

Redundancy is maintained for components of the data infrastructure, including firewalls, routers, servers and switches. Systems are developed and deployed to enable the addition of bandwidth and server capacity quickly to support customer requirements. External services and internal applications constantly monitor communications, job logs, system performance, and security and send alerts to the operations staff before customers are affected.

Communication Systems

Upper management is involved with day-to-day operations and is able to provide personnel with an understanding of their individual roles and responsibilities pertaining to internal controls. This includes the extent to which personnel understand how their activities relate to the work of others and the means of reporting exceptions to a higher level within designDATA. Management believes that open communication channels help ensure that exceptions are reported and acted on. For that reason, formal communication tools such as organizational charts, employee handbooks, training classes and job descriptions are in place at designDATA. Management's communication activities are made electronically, verbally, and through the actions of management.

SUBSERVICE ORGANIZATIONS

The third party data center services provided by the utilized data centers are monitored by designDATA management but are not included in the scope of this audit. The following controls are expected to be implemented by the third party data centers.

SUBSERVICE ORGANIZATION CONTROLS
The third party data center has physical access controls in place to <i>restrict access</i> to authorized personnel only.
The third party data center has physical access controls in place to <i>remove access</i> when no longer required.
The third party data center is responsible for the controls relevant to the completeness and accuracy of specified reports provided to and used by designDATA.
The third party data center is responsible for the general IT controls relevant to its application development and/or change management.
The environmental security and maintenance controls at the third party data center are designed, developed, implemented, operated, maintained, and monitored to meet availability commitments and requirements.

DISCLOSURES OF RELEVANT INFORMATION

Significant Changes During the Review Period

There were no significant changes to the control environment during the review period.

Subsequent Events

No material events occurred subsequent to the period covered by management's description of the service organization's system up to the date of the service auditor's report that could have a significant effect on management's assertion.

Using the Work of the Internal Audit Function

The service auditor did not utilize any work of the internal audit function in preparing this report.

COMPLEMENTARY CONTROLS AT USER ORGANIZATIONS

designDATA's services are designed with the assumption that certain controls will be implemented by user organizations. Such controls are called complementary user organization controls. It is not feasible for all of the control objectives related to designDATA's data center and managed services to be solely achieved by designDATA's control procedures. Accordingly, user organizations, in conjunction with the services, should establish their own internal controls or procedures to complement those of designDATA.

The following complementary user organization controls should be implemented by user organizations to provide additional assurance that the control objectives described within this report are met. As these items represent only a part of the control considerations that might be pertinent at the user organizations' locations, user organizations' auditors should exercise judgment in selecting and reviewing these complementary user organization controls, which may include:

- User organizations are responsible for understanding and complying with their contractual obligations to designDATA.
- User organizations are responsible for developing their own disaster recovery and business continuity plans that address their ability to access or utilize designDATA services.
- User organizations are responsible for ensuring that access codes, keys, and other means of accessing designDATA facilities and customer equipment within those facilities are kept in a secure manner and only used by authorized employees.
- User organizations are responsible for ensuring that user ids and passwords used to access designDATA applications are kept in a secure manner and only used by authorized employees.
- User organizations are responsible for requesting an authorized user ID and password for user organization employees. User organizations are responsible for defining the level of access given to employees and customers.
- User organizations are responsible for requesting the revocation of application access privileges assigned to terminated employees as a component of the employee termination process.
- User organizations are responsible for restricting administrative privileges within the application to authorized personnel and for designating internal personnel who are authorized to request user additions, deletions, and security level changes.
- User organizations are responsible for notifying designDATA of changes made to technical or administrative contact information in a timely manner.
- User organizations are responsible for understanding and defining data storage requirements.
- User organizations are responsible for understanding and implementing encryption protocols to protect data during transfer to designDATA.
- User organizations are responsible for immediately notifying designDATA of any actual or suspected information security breaches, including compromised user accounts and passwords.
- User organizations are responsible for notifying designDATA of any regulatory issues that may affect the services provided by designDATA.

COMPLEMENTARY CONTROLS AT SUBSERVICE ORGANIZATIONS

In designing its system, designDATA has contemplated that certain complementary controls would be implemented by its subservice organizations to achieve the applicable controls criteria included in this report. This section describes the subservice organization's internal controls that, in combination with the controls at designDATA, provide reasonable assurance that designDATA can achieve the applicable controls criteria included in this report.

The controls below are the responsibility of each subservice organization:

- Subservice Organizations are responsible for ensuring that data center access for their employees, contractors, vendors, and clients is added only for authorized individuals.
- Subservice Organizations are responsible for ensuring that data center access for their employees, contractors, vendors, and clients is removed when no longer required.
- Subservice Organizations are responsible implementing physical access mechanisms to ensure only authorized badge holders can enter the data centers.
- Subservice Organizations are responsible for ensuring customer-specific areas with the data center can only be accessed by the customer.
- Subservice Organizations are responsible for providing environmental security and maintenance controls that are designed, developed, implemented, operated, maintained, and monitored to meet availability commitments and requirements.
- Subservice Organizations are responsible for the general IT controls relevant to its application development and/or change management.
- Subservice Organizations are responsible for the controls relevant to the completeness and accuracy of specified reports provided to and used by designDATA.

SECTION 4
TESTING MATRICES

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Integrity and Ethical Values</u>		
1.1	designDATA maintains an employee handbook , which contains organizational policy statements, behavioral standards, codes of conduct and disciplinary policies to which all employees are required to adhere.	Inspected the employee handbook to determine that it contains organizational policy statements, benefits and practices to which all employees are required to adhere.	No exceptions noted.
1.2	Policies and procedures require that new employees sign an employee handbook acknowledgment form indicating that they have been given access to it, and understand their responsibility for adhering to the standards, policies and procedures contained within the handbook. The signed form is kept in the employee personnel file.	Inspected completed acknowledgment forms for a judgmental sample of employees hired during the review period to determine that policies and procedures require that employees sign an acknowledgment form indicating that they have been given access to the employee handbook and understand their responsibility for adhering to the standards, policies and procedures contained within the handbook.	No exceptions noted.
1.3	Employees must sign a confidentiality and non-disclosure agreement to not disclose proprietary or confidential information, including client information, to unauthorized parties.	Inspected completed acknowledgment forms for a judgmental sample of employees hired during the review period to determine that the employees signed a confidentiality agreement to not disclose proprietary or confidential information, including client information, to unauthorized parties.	No exceptions noted.
1.4	Periodic meetings with staff are conducted whereby the core values and mission of designDATA are discussed as well as ways to reinforce and improve the components of designDATA's related core functions.	Inquired of management to determine that periodic meetings with staff are conducted whereby the core values and mission of designDATA are discussed as well as ways to reinforce and improve the components of designDATA's related core functions.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.5	Comprehensive background checks are performed by an independent third party for certain positions as a component of the hiring process.	Inspected completed background checks for a judgmental sample of employees hired during the review period to determine that background checks are performed by an independent third party.	No exceptions noted.
1.6	Management personnel perform reference checks on all candidates being considered for certain positions within designDATA.	Inquired of management to determine that management personnel perform reference checks on all candidates being considered for certain positions within designDATA.	No exceptions noted.
1.7	<i>Contract employees (1099)</i> must sign a confidentiality and non-disclosure agreement to not disclose proprietary or confidential information, including client information, to unauthorized parties.	Inspected completed acknowledgment forms for a judgmental sample of <i>contract employees</i> hired during the review period to determine that the <i>contract employees (1099)</i> signed a confidentiality agreement to not disclose proprietary or confidential information, including client information, to unauthorized parties.	No exceptions noted.
1.8	Comprehensive background checks are performed by an independent third party for <i>contract employees (1099)</i> as a component of the hiring process.	Inquired of management to determine that background checks are performed by an independent third party for <i>contract employees (1099)</i> as a component of the hiring process.	No exceptions noted.
1.9	Management maintains insurance coverage to protect against dishonest acts that may be committed by personnel.	Inspected insurance coverage policy declarations page to determine that management maintained insurance coverage to protect against dishonest acts by personnel.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Commitment to Competence</u>		
1.10	Management has considered the competence levels for particular jobs and translated required skills and knowledge levels into written position requirements that delineate employee responsibilities and authority.	Inspected a judgmental sample of written job descriptions to determine that management had considered the competence levels for particular jobs and translated required skills and knowledge levels into written position requirements.	No exceptions noted.
1.11	Roles and responsibilities for company personnel to interact with and monitor the activities of external third party information technology vendors are defined in written job descriptions and communicated to personnel.	Inspected a judgmental sample of written job descriptions to determine that written job descriptions contain roles and responsibilities for company personnel to interact with and monitor the activities of external third party information technology vendors.	No exceptions noted.
1.12	Management utilizes skills assessment testing for certain positions during the hiring process.	Inquired of management to determine that management utilizes skills assessment testing for certain positions during the hiring process.	No exceptions noted.
1.13	Management has developed a formal training and development program for employees. This includes: <ul style="list-style-type: none"> • Initial training with peers and supervisors in the period immediately after hire. • Ongoing training to maintain and enhance the skill level of personnel on an as-needed basis. 	Inquired of management into initial and ongoing training and development for employees, to determine that a program is in place.	No exceptions noted.
		Inspected a judgmental sample of company documentation (meeting agendas, assignments) of initial training and development for new employees.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
		Inspected a judgmental sample of documented training programs (meeting agendas, assignments) for tenured employees to determine that ongoing training is utilized for each employee on an as-needed basis beyond the initial hiring training period.	No exceptions noted.
1.14	Management encourages employees to complete and continue formal education and technical certification programs.	Inquired of management into encouragement of employees to pursue formal education and technical certification programs to determine that management encourages employees to complete and continue formal education and technical certification programs.	No exceptions noted.
		Inspected employee handbook for policies related to formal education and technical certification programs, to determine that management encourages employees to continue and complete formal education and technical programs.	No exceptions noted.
1.15	Management-approved professional development expenses incurred by the employees are paid by designDATA.	Inspected employee handbook for policies related to expense reimbursement for education and technical certification programs, to determine that management-approved professional development expenses incurred by the employees are paid by designDATA.	No exceptions noted.
	<u>Board of Directors Participation</u>		
1.16	A board of directors oversees management activities .	Inquired of management regarding the board of directors to determine that a board of directors was in place to oversee management activities.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.17	The board of directors meets on a semi-annual basis.	<p>Inspected the listing of the board of director members to determine that a board of directors was in place.</p> <p>Inquired of management to determine that a board of directors meets semi-annually.</p> <p>Inspected the most recent BOD meeting agenda to determine that the board of directors meets on a semi-annual basis.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p> <p>No exceptions noted.</p>
	<u>Management Philosophy and Operating Style</u>		
1.18	Management is guided by designDATA's corporate mission statement in determining the implementation of corporate goals and operational activities to meet them.	Inspected designDATA's corporate mission statement to determine that management is guided by designDATA's corporate mission statement in determining the implementation of corporate goals operational activities to meet them.	No exceptions noted.
1.19	Management regularly attends trade shows, utilizes trade and regulatory publications, journals, online news feeds and government sites, and belongs to industry associations to stay current on regulatory compliance or operational trends affecting the services provided.	Inspected a judgmental sample of trade show agendas, online sites utilized and publications, and association membership literature to determine that management is periodically briefed on regulatory and industry changes affecting services provided.	No exceptions noted.
1.20	Management meetings are held on a regular basis to discuss operational planning and budgeting, human resource planning and hiring, and customer related issues. Meeting agendas and meeting minutes are recorded and communicated to relevant personnel.	Inquired of management to determine that management meetings were held on a regular basis to discuss operational and customer related issues.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.21	Operational meetings are held on a regular basis to discuss internal control responsibilities (data and system security) of individuals and performance measurement.	Inquired of management to determine that operational meetings are held on a regular basis to discuss internal control responsibilities (data and system security) of individuals and performance measurement.	No exceptions noted.
1.22	designDATA utilizes a third party financial services firm to prepare annual tax returns.	Inquired of management to determine that designDATA utilizes a third party financial services firm to prepare annual tax returns. Inspected the most recent engagement letter reflecting the engagement of a third party financial services firm to determine that management engages a third party financial services firm to prepare annual tax returns.	No exceptions noted. No exceptions noted.
	<u>Organizational Structure, and Assignment of Authority and Responsibility</u>		
1.23	Organizational charts are in place to communicate key areas of authority, responsibility, and appropriate lines of reporting to personnel. These charts are communicated to employees and are updated as needed.	Inquired of management regarding communication of organizational charts to determine that the charts are communicated to employees and updated as needed. Inspected organizational charts to determine that organizational charts are in place to communicate key areas of authority and responsibility and are updated as needed.	No exceptions noted. No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.24	designDATA's organizational structure is traditional, with clear lines of authority and responsibility. Autonomy within departments is allowed to a reasonable extent to provide for innovative approaches to managing the company, with close oversight maintained by the CEO.	Inquired of management to determine that designDATA's organizational structure is traditional, with clear lines of authority and responsibility, and that autonomy within departments is allowed to a reasonable extent to provide for innovative approaches to managing the company, with close oversight maintained by the CEO.	No exceptions noted.
1.25	designDATA's operating goals and objectives are communicated to the entire organization during regular staff meetings, employee performance reviews, and other written communications.	Inquired of management regarding communication of designDATA's operating goals and objectives to employees of organization to determine that they are communicated to the entire organization. Inspected a judgmental sample of written company communications to determine that designDATA's operating goals and objectives are communicated to the entire organization.	No exceptions noted. No exceptions noted.
1.26	designDATA provides an employee orientation program that communicates organizational structure and responsibility, company and departmental objectives, and relationships between departments and personnel.	Inquired of management regarding the employee orientation program to determine that organizational structure, responsibility, company and departmental objectives and relationships between departments are communicated to employees during the orientation. Inspected employee orientation documentation to determine that organizational structure, responsibility, company and departmental objectives and relationships between departments are communicated to employees during the orientation.	No exceptions noted. No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.27	designDATA has established a segregation of duties process , which is based upon changes and recommendations from management.	Inquired of management regarding segregation of duties process. Inspected the organization chart to determine that designDATA has established a segregation of duties process.	No exceptions noted. No exceptions noted.
<u>Human Resource Policies and Practices</u>			
1.28	Management has established hiring guidelines and procedures that guide the hiring process to ensure that specific elements of the hiring process are consistently executed. This includes the use of an independent, outsourced HR services provider.	Inspected the hiring guidelines and procedures to determine that such documentation guides the hiring process. Inspected UltiPro customer portal with the HR provider to determine that designDATA utilizes the services of an independent, outsourced HR services provider.	No exceptions noted. No exceptions noted.
1.29	Human Resources management utilizes an onboarding checklist to ensure that specific elements of the hiring process are consistently executed. A copy of the onboarding checklist is maintained in the employee file.	Inspected a judgmental sample of ConnectWise onboarding tickets used for employees hired during the review period to determine that HR management utilizes an onboarding checklist for the employees and that the checklist is retained in the employee files.	No exceptions noted.

MATRIX 1 CONTROL ENVIRONMENT

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that discipline and structure are an essential part of the culture and operations within the organization and also influence the control awareness of its management and employees.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
1.30	Employees undergo an annual performance review which includes discussions related to their performance related to internal control responsibilities such as data and systems security. A formal evaluation is prepared and is maintained in the employee's HR file.	Inspected a judgmental sample of annual performance reviews to determine that employees undergo an annual performance review and that a formal evaluation is prepared and is maintained in the employee's HR file.	No exceptions noted.
1.31	Management has established employee termination procedures that guide the termination process.	Inquired of management to determine that performance related to internal control responsibilities such as data and systems security was discussed.	No exceptions noted.
1.32	Human Resources management utilizes a termination checklist to ensure that specific elements of the termination process are consistently executed. This includes but is not limited to the terminated employee's physical and logical access to company facilities and computer systems. The checklist is retained in the employee files.	Inspected a judgmental sample of ConnectWise tickets utilized during the review period, to determine that Human Resources management utilizes a termination checklist to ensure that specific elements of the termination process including access removal are consistently executed, and that the checklists are retained in the employee files.	No exceptions noted.

MATRIX 2 PHYSICAL SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that business premises and information systems are protected from unauthorized access, damage, and interference.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>THIRD PARTY HOSTING FACILITIES</u>		
2.1	<p>designDATA utilizes the services and controls of various third party data centers for housing certain critical production computer servers, applications, and networking equipment. These data centers are:</p> <ul style="list-style-type: none"> • Cyxtera • ByteGrid <p>A summary of the various data centers' physical and environmental security controls are described in Section 5 as included in the most recent SOC report for each data center.</p>	<p>Inspected Service Level Agreements with the various data centers/co-location facilities.</p> <p>Inspected the most recent SOC audit report for each data center.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
2.2	The third party data centers have physical access controls in place to <i>restrict access</i> to authorized personnel only.	Inspected the most recent SOC audit reports for the third party data centers to determine that the third party data centers have physical access controls in place to <i>restrict access</i> to authorized personnel only.	No exceptions noted.
2.3	The third party data centers have physical access controls in place to <i>remove access</i> when no longer required.	Inspected the most recent SOC audit reports for the third party data center to determine that the third party data centers have physical access controls in place to <i>remove access</i> when no longer required.	No exceptions noted.
2.4	designDATA management reviews the SOC audit reports of the various third party data centers annually and documents the results of the reviews of the SOC audit reports in a memo.	<p>Inquired of management to determine that designDATA management reviews the SOC audit reports of the various third party data centers annually.</p> <p>Inspected management's memo to determine that designDATA management documents the results of the reviews of the SOC reports in a memo.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>

MATRIX 3 ENVIRONMENTAL SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that critical information technology infrastructure is protected from certain environmental threats.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<p><u>THIRD PARTY HOSTING FACILITIES</u></p>		
3.1	<p>designDATA utilizes the services and controls of various third party data centers for housing certain critical production computer servers, applications, and networking equipment. These data centers are:</p> <ul style="list-style-type: none"> • Cyxtera • ByteGrid 	<p>Inspected Service Level Agreements with the various data centers/co-location facilities.</p>	<p>No exceptions noted.</p>
	<p>A summary of the various data centers' physical and environmental security controls are described in Section 5 as included in the most recent SOC report for each data center.</p>	<p>Inspected the most recent SOC audit report for each data center.</p>	<p>No exceptions noted.</p>
3.2	<p>The environmental security and maintenance controls at the third party data centers are designed, developed, implemented, operated, maintained, and monitored to meet availability commitments and requirements.</p>	<p>Inspected the most recent SOC audit reports for the third party data centers to determine that the environmental security and maintenance controls at the third party data centers are designed, developed, implemented, operated, maintained, and monitored to meet availability commitments and requirements.</p>	<p>No exceptions noted.</p>
3.3	<p>designDATA management reviews the SOC audit reports of the various third party data centers annually and documents the results of the reviews of the SOC audit reports in a memo.</p>	<p>Inquired of management to determine that designDATA management reviews the SOC audit reports of the various third party data centers annually.</p>	<p>No exceptions noted.</p>
		<p>Inspected management's memo to determine that designDATA management documents the results of the reviews of the SOC reports in a memo.</p>	<p>No exceptions noted.</p>

MATRIX 4 COMPUTER OPERATIONS I – BACKUP AND STORAGE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance of timely system backups of designDATA’s and customers’ critical files, storage of designDATA’s and contracted customer’s data, and retention of designDATA’s and contracted customer backup files.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
4.1	<p>Documented backup procedures are in place for company systems deemed critical by management, to guide personnel in performing backup system tasks.</p> <p style="text-align: center;"><u>Disk-to-Disk Image-Based Backups</u></p>	Inspected documented backup procedures to determine that documented backup procedures are in place for critical designDATA systems.	No exceptions noted.
4.2	<p>A third party automated backup application (Veeam) is utilized to perform scheduled system image-based disk-to disk backups. This results in multiple copies of production data, including:</p> <ol style="list-style-type: none"> 1. Production data 2. Backup copy on Exagrid appliance 3. Replicated copy at redundant data center 4. Monthly copy to tape (see below). 	Inspected the third party automated backup system to determine that automated backup systems are utilized to perform scheduled system backups.	No exceptions noted.
4.3	<p>The backups are asynchronous.</p> <ul style="list-style-type: none"> • Point-in-time snapshots (recovery points) are made once per day. • These incremental backups are combined once a week to create a continuous “synthetic full” image. 	Inspected the backup storage control panel to determine that backups are made to a backup server, and that recovery points have been configured as needed.	No exceptions noted.
4.4	The retention period for backup data is 21 restore points.	Inspected a judgmental sample of backup data jobs to determine that the retention period is 21 restore points.	No exceptions noted.
4.5	<p>Systems that are backed up include:</p> <ul style="list-style-type: none"> • SQL servers • Exchange servers • Active directory servers • Application servers. 	Inspected list of servers configured to be backed up to disk to determine that the enumerated servers are backed up.	No exceptions noted.

MATRIX 4 COMPUTER OPERATIONS I – BACKUP AND STORAGE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance of timely system backups of designDATA’s and customers’ critical files, storage of designDATA’s and contracted customer’s data, and retention of designDATA’s and contracted customer backup files.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Backup to External Tapes</u> (Veeam Application)		
4.6	Veeam is utilized to create tape backups of Veeam disk-to-disc backup jobs. The backup jobs are created and scheduled by authorized personnel.	Inspected judgmental sample of backup scheduling to determine that backup jobs are created and scheduled by authorized personnel.	No exceptions noted.
4.7	Monthly full backups are performed of critical company data such as critical application and database components. Logs are used to record backup activity.	Inspected a judgmental sample of backup software logs to determine that monthly full data backups are performed of all critical designDATA data such as critical application and database components.	No exceptions noted.
4.8	The backup application encrypts the backup data for storage utilizing AES 256 bit encryption.	Inspected the control panel encryption settings to determine that the backup application encrypts the backup data for storage.	No exceptions noted.
4.9	Multiple external backup tapes are used in rotation as backup media for backup procedures. While at the data center, they are automated by a 48-slot tape robot.	Inquired of management to determine that multiple backup tapes are used in rotation as backup media.	No exceptions noted.
4.10	Backup tapes are moved from the third party data center to the main office once per month. Backup tapes are maintained in a locked filing cabinet in a secure storage room at all times while on company premises.	Observed locked cabinet in secure storage room to determine that backup tapes are maintained in a secure location at all times while on company premises.	No exceptions noted.
4.11	Backup media are rotated off-site according to a formal rotation schedule.	Inspected the rotation schedule for backup media to determine that backup media are rotated off-site according to a formal rotation schedule.	No exceptions noted.

MATRIX 4 COMPUTER OPERATIONS I – BACKUP AND STORAGE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance of timely system backups of designDATA’s and customers’ critical files, storage of designDATA’s and contracted customer’s data, and retention of designDATA’s and contracted customer backup files.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Backup of Customer Applications and Data</u>		
4.12	Documented backup procedures are in place for customer system backups performed by designDATA.	Inspected documented backup procedures to determine that documented backup procedures are in place for critical customer systems.	No exceptions noted.
4.13	Data backups of contracted customer application components and databases are performed according to the timing reflected in the customer contract .	Inquired of management to determine that data backups of contracted customer application components and databases are performed according to the timing reflected in the customer contract.	No exceptions noted.
	<u>Backup Monitoring</u>		
4.14	Backup jobs are monitored for failure by authorized personnel.	Observed backup monitoring process to determine that backup jobs are monitored for failure by authorized personnel.	No exceptions noted.
4.15	Failure notifications of the backup process are communicated by the backup application to management and appropriate IT personnel by automated email. Failures are investigated and resolved.	Inquired of management to determine that failure notifications of the backup process are communicated by the backup application to management and appropriate IT personnel by automated email.	No exceptions noted.
		Inspected a judgmental sample of emailed notifications to determine that failure notifications of the backup process are communicated by the backup application to management and appropriate IT personnel by automated email.	No exceptions noted.

MATRIX 4 COMPUTER OPERATIONS I – BACKUP AND STORAGE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance of timely system backups of designDATA’s and customers’ critical files, storage of designDATA’s and contracted customer’s data, and retention of designDATA’s and contracted customer backup files.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
4.16	The backup applications generate and maintain logs , which specify the data backup processes are completed, and success/failure status of each process.	Inspected the backup application logs to determine that backup applications maintain logs which specify the data backup processes are completed, and success/failure status of each process.	No exceptions noted.
4.17	Management performs systematic reviews of the backup applications and logs to detect abnormalities in the backup process.	Inquired of management to determine that management performs systematic reviews of the backup application and logs to detect abnormalities in the backup process. Inspected a judgmental sample of backup application logs or reports to determine that management performs systematic reviews of the backup applications and logs to detect abnormalities in the backup process.	No exceptions noted. No exceptions noted.
4.18	Only authorized personnel are granted access rights to recall backup data from the storage site at HQ or from the storage appliance.	Inspected the backup media access rights to determine that only authorized personnel are granted rights to recall backup media from storage.	No exceptions noted.
4.19	Management periodically performs restorations of backup data at customer request, which serves to verify the success of backup processes and employee readiness.	Inquired of management to determine that management periodically performs restorations of backup data at customers’ request, which serves to verify the success of backup processes and employee readiness. Inspected a judgmental sample of restoration logs to determine that management periodically performs restorations of backup data at customer request, which serves to verify the success of backup processes and employee readiness.	No exceptions noted. No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.1	<p>A formal risk assessment is performed on an annual basis. Risks identified are evaluated along with mitigation strategies and are formally documented in memo form. The risk assessment includes, but is not limited to, the following areas:</p> <ul style="list-style-type: none"> • Data security (company data and client data) • Potential fraud and misconduct including how management and staff might engage in inappropriate actions from the use of IT and access to information • Regulatory, economic, and physical environment in which the company operates • Business environment, including industry, competitors, regulatory environment, and consumers • Potential impact of new business lines, dramatically altered business lines, acquired or divested business operations on the system of internal control, rapid growth, changing reliance on foreign geographies, and new technologies • Management and respective attitudes and philosophies on the system of internal control • Vendor and business partner relationships including third party data centers • Systems and technology environment. 	<p>Inspected the annual risk assessment documentation to determine that a formal risk assessment was performed during the review period and that identified risks and mitigation strategies were formally documented.</p>	<p>No exceptions noted.</p>

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.2	An Incident Response plan is in place to ensure appropriate response to outages or security incidents in an organized and timely manner and to properly document them.	Inspected the incident response plan to determine that a plan is in place to ensure appropriate response to outages or security incidents.	No exceptions noted.
5.3	Policies and procedures are in place to govern critical computer operations activities.	Inspected the policies and procedures to determine that policies and procedures are in place to govern critical computer operations activities.	No exceptions noted.
5.4	A ticketing system is utilized to manage systems infrastructure issues and changes . Tickets are assigned to support personnel based on the nature of the ticket.	Inspected a judgmental sample of logs from the ConnectWise ticketing system showing closed tickets to determine that a ticketing system was utilized to manage systems infrastructure issues, and tickets were assigned to support personnel based on the nature of the ticket.	No exceptions noted.
5.5	<p>Helpdesk calls are entered into the ticketing system and call tracking utility and given a ticket number.</p> <ul style="list-style-type: none"> • A priority level is assigned in accordance with company policy. • All issues that cannot be addressed within appropriate time intervals are escalated to management to assure timely resolution. • Call volume and open tickets are reviewed in regularly scheduled helpdesk staff meetings. • All closed tickets are communicated to the Requestor, either automatically via email from the tracking utility, or manually by IT helpdesk staff. 	Inquired of management to determine that helpdesk calls are entered into the call tracking utility and given a ticket number, a priority level is assigned in accordance with company policy, and all issues that cannot be addressed within appropriate time intervals are escalated to management to assure timely resolution.	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
		Inspected a judgmental sample of reports generated for staff meetings and closed ticket emails to determine that call volume and open tickets are reviewed in regularly scheduled helpdesk staff meetings, and that all closed tickets are communicated to the requestor, either automatically via email from the tracking utility, or manually by IT helpdesk staff.	No exceptions noted.
5.6	New client contracts are approved by designDATA management prior to initiating service. A Service Level Agreement (SLA) is signed by the client and designDATA management.	Inspected a judgmental sample of new client contracts and SLAs formalized during the review period to determine that they are signed off by the client and designDATA management.	No exceptions noted.
	Change Management Controls <i>Production and Critical Hardware Systems</i>		
5.7	designDATA utilizes various third party data centers for housing critical production computer servers, applications, and networking equipment. The third party data centers are responsible for the general IT controls relevant to its change management.	Inspected the most recent SOC audit reports for the third party data centers to determine that the third party data centers are responsible for the general IT controls relevant to its change management.	No exceptions noted.
5.8	designDATA management reviews the SOC audit reports of the various third party data centers annually and documents the results of the reviews of the SOC audit reports in a memo.	Inquired of management to determine that designDATA management reviews the SOC audit reports of the various third party data centers annually.	No exceptions noted.
		Inspected management’s memo to determine that designDATA management documents the results of the reviews of the SOC reports in a memo.	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>System Monitoring and Response</u>		
5.9	Management has developed designDATA's definition of system downtime and determined acceptance level criteria.	Inspected policies and procedures to determine management has developed designDATA's definition of system downtime and acceptance level criteria.	No exceptions noted.
5.10	Third party enterprise monitoring applications are used to monitor and record performance criteria for critical designDATA server and network equipment.	Inspected the Kaseya enterprise monitoring applications to determine that third party enterprise monitoring applications are used to monitor performance criteria for critical designDATA server and network equipment.	No exceptions noted.
5.11	A third party enterprise monitoring application is used to monitor and record performance criteria for contracted client server and network equipment.	Inspected the enterprise monitoring application to determine that a third party enterprise monitoring application is used to monitor performance criteria for contracted client server and network equipment.	No exceptions noted.
5.12	System downtime and operations issues are monitored to help ensure that system downtime does not exceed predefined levels.	Inspected the Kaseya metrics tracking reports to determine that system downtime and operations issues were monitored.	No exceptions noted.
5.13	The enterprise monitoring application is configured to send alert notifications to operations personnel when predefined metrics are exceeded on monitored network devices. Alerts are communicated via text or email to appropriate support personnel.	Inspected the enterprise monitoring application configuration screens to determine that performance thresholds are set and alerts are communicated if pre-determined metrics are reached.	No exceptions noted.
5.14	All designDATA network operations center personnel are equipped with smart phones for use in the network and server monitoring alert process.	Observed smart phones of network operations center personnel to determine that network operations center personnel are equipped with smart phones for use in the network and server monitoring alert process.	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.15	designDATA provides network operations center personnel on a 24/7/365 basis for server and network performance monitoring.	<p>Inquired of management to determine that designDATA network operations center personnel are provided on a 24/7/365 basis for server and network performance monitoring.</p> <p>Observed server and network performance monitoring in network operations center to determine that designDATA provides network operations center personnel on a 24/7/365 basis for server and network performance monitoring.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
5.16	designDATA utilizes various third party data centers for housing critical production computer servers, applications, and networking equipment. The third party data centers are responsible for the controls relevant to the completeness and accuracy of specified reports provided to and used by designDATA.	<p>Inspected the most recent SOC audit reports for the third party data center to determine that designDATA utilizes relevant reports provided by the third party data centers.</p>	<p>No exceptions noted.</p>
5.17	designDATA management reviews the SOC audit reports of the various third party data centers annually and documents the results of the reviews of the SOC audit reports in a memo.	<p>Inquired of management to determine that designDATA management reviews the SOC audit reports of the various third party data centers annually.</p> <p>Inspected management's memo to determine that designDATA management documents the results of the reviews of the SOC reports in a memo.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Hardware and Maintenance</u>		
5.18	A ticketing system is utilized to manage systems infrastructure issues . Tickets are assigned to support personnel based on the nature of the ticket.	Inspected a judgmental sample of logs from the ticketing system showing closed tickets to determine that a ticketing system was utilized to manage systems infrastructure issues, and tickets were assigned to support personnel based on the nature of the ticket.	No exceptions noted.
5.19	Routine network maintenance is scheduled by the data centers at early morning weekend hours, and email ticketing notification is automatically generated to designDATA IT personnel.	Inspected a judgmental sample of notifications from the data centers to determine that routine network maintenance is scheduled by the data centers at early morning weekend hours, and email ticketing notification is automatically generated to designDATA's IT personnel.	No exceptions noted.
5.20	Customers are notified of scheduled system downtime and emergency changes via the company ticketing system or customer portal.	Inspected a judgmental sample of ticketing email notifications to determine that customers are notified of scheduled system downtime and emergency changes.	No exceptions noted.
5.21	A standard hardware build is utilized for installation and maintenance of certain critical designDATA servers.	Inspected the standard hardware build procedures for certain designDATA servers to determine that a standard hardware build is utilized for certain critical designDATA servers.	No exceptions noted.
5.22	Network administrators harden servers by enabling only necessary operating system services and roles, and factory default configurations are changed as appropriate: <ul style="list-style-type: none"> • Non-essential default accounts are turned off • Non-essential services are turned off • FTP access is disabled for non-FTP servers • Security event logging is enabled. 	Inquired of management to determine that network administrators harden servers by enabling only necessary operating system services and roles.	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.23	A standard vHost template for virtualized environments is utilized for installation and maintenance of certain critical designDATA and customer virtual machines.	Inspected the vHost configurations to determine that a standard template is used for installation and maintenance of certain critical designDATA virtual machines.	No exceptions noted.
5.24	Critical production equipment is maintained under warranty and maintenance or Service Level Agreements (SLAs) with 3 rd party vendors.	Inquired of management to determine that certain production equipment is maintained under warranty and maintenance or service level agreements with 3 rd party vendors. Inspected current agreements with third party vendors to determine that certain production equipment is maintained under warranty and maintenance or service level agreements with 3 rd party vendors.	No exceptions noted. No exceptions noted.
5.25	designDATA maintains an inventory of spare equipment for most critical network and server systems to help ensure rapid recovery if necessary.	Inspected inventory of spare equipment to determine that designDATA maintains an inventory of spare equipment for most critical network and server systems to help ensure rapid recovery if necessary.	No exceptions noted.
5.26	designDATA maintains redundant servers for critical production applications.	Inquired of management to determine that designDATA maintains redundant servers for critical production applications. Observed redundant system infrastructure and the network configuration documentation to confirm server redundancy for critical production applications.	No exceptions noted. No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.27	<p>Redundant architecture is built into server infrastructure, including, but not limited to the:</p> <ul style="list-style-type: none"> • Network interface cards (NICs) • Power supplies • RAID storage. <p><u>Telecommunications (Internet) Connectivity</u></p>	Observed the redundant system infrastructure components to determine that redundant architecture was built into certain aspects of the systems infrastructure.	No exceptions noted.
5.28	<p>Redundant internet connections are in place through multiple telecommunications providers, with separate optical fiber entrances into the physical building, and multiple routers and switches are utilized. Failover is controlled by BGP at the router level.</p>	<p>Inspected network diagram to determine that redundant internet connections are in place, through multiple providers with separate optical fiber entrances into the physical building, and that multiple routers and switches are utilized.</p> <p>Inspected failover configurations to determine that the firewall controls failover and that it is configured in an active-passive configuration.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
5.29	<p>Multiple lines of communication to telecommunications providers are configured in an active-active configuration, and multiple routers and switches provide automatic redundancy in the event of communications disruption. In the event of failure of one or more lines, the enterprise monitoring system sends alert notifications.</p>	<p>Inspected the internet connection failover alert configurations in the router interface to determine that multiple internet connections provide active-active redundancy, and that in the event of failure of one or more lines, the enterprise monitoring system sends alert notifications.</p>	No exceptions noted.
5.30	<p>designDATA utilizes fully redundant routing and switching equipment for its core networking infrastructure.</p>	<p>Inspected network diagram to determine that designDATA utilizes fully redundant routing and switching equipment for its core networking infrastructure.</p>	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.31	<p><u>OS and Software Patches:</u> (designDATA Servers)</p> <p>For server patching, an automated methodology is utilized to monitor patch releases. Updates are managed through a central application (Kaseya), which automatically pushes patch updates to servers if appropriate.</p>	<p>Inquired of management to determine that a methodology is utilized to monitor patch releases, distribute patches to relevant devices and apply the patches to the device.</p>	No exceptions noted.
5.32	<p>Infrastructure changes and patches to third party applications are tested by the technical support department being applied to production servers.</p>	<p>Inspected the monitoring application to determine that a scan schedule is utilized to monitor patch releases, and distribute patches to relevant devices.</p>	No exceptions noted.
5.33	<p><u>Anti-virus Software</u></p> <p>Third party antivirus software is installed on all designDATA servers (endpoint protection).</p>	<p>Inquired of management to determine that infrastructure changes tested by the technical support department after hours before being introduced to production servers.</p> <p>Inspected hardware update logs to determine that patches and upgrades to critical services are tested by the technical support department being introduced to a production server.</p>	No exceptions noted.
		<p>Inquired of management to determine that third party antivirus software is installed on all designDATA servers.</p> <p>Inspected antivirus software installed on judgmental sample of designDATA servers to determine that antivirus software is installed on all designDATA servers.</p>	No exceptions noted.

MATRIX 5 COMPUTER OPERATIONS II – SYSTEM UPTIME AND MAINTENANCE

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that computer systems are maintained in a manner that helps ensure customer system availability.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
5.34	designDATA maintains current virus signature updates. Antivirus definitions are monitored for updates by a central antivirus server every four hours. Individual machines have application agents that are installed and configured through a central monitoring console. Updates are pulled to specific production servers hourly.	<p>Inspected the antivirus software documentation to determine that a central server monitored for updates to antivirus definitions hourly.</p> <p>Inspected the list of servers configured to pull updates from the central antivirus server to determine that antivirus software was installed on specific production servers.</p> <p>Inspected the antivirus software documentation to determine that updates were pulled to specific production servers hourly.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p> <p>No exceptions noted.</p>

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
6.1	designDATA IT personnel utilize security issue monitoring services to keep abreast of recent critical issues, attacks and vulnerabilities that must be addressed immediately.	<p>Inspected a sample of informational service communications to determine that IT personnel utilize security issue monitoring services.</p> <p>Inquired of management to determine that designDATA IT personnel utilize security issue monitoring services to keep abreast of recent critical issues, attacks and vulnerabilities that must be addressed immediately.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
6.2	Network diagrams are in place and communicated to appropriate personnel.	Inspected network diagrams to determine that network diagrams are in place and communicated to appropriate personnel.	No exceptions noted.
6.3	Management periodically performs internal security assessments , including reviews of server logs and other critical items.	Inspected a judgmental sample of results from internal security assessments performed during the review period to determine that management periodically performs internal security assessments.	No exceptions noted.
6.4	designDATA has logical and physical security, change management, incident monitoring, and data classification, integrity, and retention controls, as necessary, with checks and balances woven into each applicable process to ensure quality of processing.	Inspected internal processes and procedures to determine that designDATA has logical and physical security, change management, incident monitoring, and data classification, integrity, and retention controls, as necessary, with checks and balances woven into each applicable process to ensure quality of processing.	No exceptions noted.
6.5	The production network is logically and physically segregated from the internal corporate network.	Inspected a network diagram to determine that the production network was logically and physically segregated from the internal corporate network.	No exceptions noted.

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
6.6	Management revokes network and production server connection privileges assigned to terminated employees as a component of the employee termination process .	Inspected the default domain user listing and a judgmental sample of production server user listings to determine that management revoked network access privileges assigned to terminated employees as a component of the employee termination process.	No exceptions noted.
6.7	Management has segregated specific duties within the production environment for administering critical areas such as: <ul style="list-style-type: none"> • Network administration • Systems (including Active Directory) administration. 	Inspected access rights listing to determine that management has segregated specific duties within the production environment for administering critical areas.	No exceptions noted.
6.8	Only authorized system administrators are able to install software on system devices.	Inquired of management to determine that only authorized system administrators are able to install software on system devices.	No exceptions noted.
<u>Sensitive Data Collection/Storage/Output</u>			
6.9	Prior to collecting personal information of external users , a privacy policy is provided that may include the purpose and use of the personal information, including detailed use, ability to opt-out, enhancement (enrichment), sharing, disclosure, access, security, retention, and disposal of personal information.	Inspected policies to determine that if personal information of external users is collected, a privacy policy is provided that may include the purpose and use of the collection of their personal information, including detailed use, ability to opt-out, enhancement (enrichment), sharing, disclosure, access, security, retention, and disposal of personal information.	No exceptions noted.
6.10	Management has a data classification methodology to identify and classify sensitive data in the production environment.	Inquired of management to determine that management has a data classification methodology to identify and classify sensitive data.	No exceptions noted.

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
6.11	<p>Encryption methods are in place and utilized for sensitive backup data storage.</p>	<p>Inspected encryption configurations to determine that encryption methods are in place and utilized for sensitive backup data storage.</p> <p>Inspected encryption policies to determine that encryption methods are in place and utilized for sensitive backup data storage.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
6.12	<p>The entity:</p> <ul style="list-style-type: none"> • locates and removes or redacts specified confidential information as required; • regularly and systematically destroys, erases, or makes anonymous confidential information that is no longer required for the purposes identified in its confidentiality commitments or system requirements; • erases or destroys records in accordance with the retention policies, regardless of the method of storage (for example, electronic, optical media, or paper based); • disposes of original, archived, backup, and ad hoc or personal copies of records in accordance with its destruction policies; and • documents the disposal of confidential information. 	<p>Inquired of management to determine that the entity:</p> <ul style="list-style-type: none"> • locates and removes or redacts specified confidential information as required; • regularly and systematically destroys, erases, or makes anonymous confidential information that is no longer required for the purposes identified in its confidentiality commitments or system requirements; • erases or destroys records in accordance with the retention policies, regardless of the method of storage (for example, electronic, optical media, or paper based); • disposes of original, archived, backup, and ad hoc or personal copies of records in accordance with its destruction policies; and • documents the disposal of confidential information. 	<p>No exceptions noted.</p>

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Vendor Risk Management</u>	Inspected documentation to determine that the entity documents the disposal of confidential information.	No exceptions noted.
6.13	A non-disclosure or confidentiality agreement is in place with related parties and vendors. These agreements include confidentiality commitments applicable to that entity.	Inspected a judgmental sample of agreements to determine that a non-disclosure or confidentiality agreement is in place with related parties and vendors and that they include confidentiality commitments applicable to that entity.	No exceptions noted.
	<u>Internal Network Domain – Network Authentication Controls Via Windows Active Directory</u>		
6.14	Users are required to authenticate via a unique user ID and password before being granted access to designDATA internal network domain.	Inspected the internal network domain authentication process to determine that users are required to authenticate via a unique user ID and password before being granted access to designDATA internal network domain.	No exceptions noted.
6.15	Internal network domain (default domain) passwords must conform to the following requirements: <ul style="list-style-type: none"> • Enforce password history • Maximum password age • Minimum password length • Complexity requirements. 	Inspected the network authentication configurations to determine that network domain passwords must conform to stated requirements.	No exceptions noted.

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
6.16	User IDs are locked out (automatically suspended) after a designated number of invalid login attempts within a set time period. The account is then locked out of the system for a set time period, and a notification alert is triggered.	Inspected the password configuration screen to determine that user IDs are locked out after a designated number of invalid login attempts within a set time period, and that the account is then locked out of the system for a set time period, and a notification is triggered.	No exceptions noted.
	<u>Internal Network Domain – Network Access and Monitoring Controls</u>		
6.17	Production database and application server operating system account policies are controlled by the default domain group policy.	Inquired of the network administrator regarding operating system account policies to determine that database and application server operating system account policies were controlled by the default domain group policy.	No exceptions noted.
		Inspected a judgmental sample of application and database server configurations to determine that the database and application server operating system account policies were controlled by the default domain group policy.	No exceptions noted.
6.18	Management has segregated specific duties within the internal network domain for administering critical areas such as network administration and database management. Management restricts network domain administration privileges to approved positions only.	Inquired of management to determine that management has authorized specific personnel to administer information security within the internal network domain, and has segregated duties.	No exceptions noted.

MATRIX 6 INFORMATION SECURITY

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that system information, once entered into the system, is protected from unauthorized or unintentional use, modification, addition or deletion. Procedures are also in place to keep authentication and access mechanisms effective.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
		Inspected the administrative access rights listing to confirm that management has authorized specific personnel to administer information security within the production environment, and has segregated specific duties within the internal network domain for administering critical areas such as network administration, and database management.	No exceptions noted.
6.19	A periodic review of network access lists is performed by administrators to ensure that only appropriate individuals have active accounts in the domain.	Inquired of management to determine that a periodic review of network access lists is performed by administrators to ensure that only appropriate individuals have active accounts in the domain.	No exceptions noted.
6.20	Certain network events are logged and maintained for management review. Critical servers have auditing enabled, and for security, system management and network functions. Monthly proactive system health checks are performed by IT staff.	<p>Inspected the network account and local event monitoring configurations, and event logs and monthly health check documentation to determine that certain network events were logged and maintained for management review.</p> <p>Inspected a judgmental sample of server configurations to determine that critical servers have auditing enabled, and for security, system management and network functions.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>

MATRIX 7 DATA COMMUNICATIONS

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that the security infrastructure and practices secure against unauthorized access to designDATA's internal network and threats from connections to external networks are limited.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
	<u>Firewall System Administration</u>		
7.1	The firewall requires two factor authentication before administrative access to the firewall system is allowed.	Observed the network engineer log into the firewall system to determine that the firewall required two factor authentication before administrative access to the firewall system was allowed.	No exceptions noted.
7.2	All firewall administrator accounts have been changed from their default passwords.	Inspected the administrator account password configurations to determine that all firewall administrator accounts have been changed from their default passwords.	No exceptions noted.
7.3	The ability to modify the firewall system software, configurations or rule sets is restricted based on job responsibility and is limited to approved positions only.	Inspected firewall system access documentation to determine that the ability to modify the firewall system software, configuration or rule sets is restricted based on job responsibility and is limited to approved positions only.	No exceptions noted.
7.4	Administrative access to the firewall system is restricted to allowed network segments.	Inspected the access rules to determine that the ability to access the firewall system remotely is restricted.	No exceptions noted.
7.5	Firewalls are configured to log all access and modifications to the firewall system software, and logs are available for ad hoc review by security personnel.	Inquired of management to determine that all modifications to the firewall system software, configurations or rule sets are logged and available for ad hoc review by security personnel.	No exceptions noted.
		Inspected a judgmental sample of logs of modifications to the firewall system software, configurations or rule sets to determine that they are logged.	No exceptions noted.

MATRIX 7 DATA COMMUNICATIONS

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that the security infrastructure and practices secure against unauthorized access to designDATA's internal network and threats from connections to external networks are limited.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
7.6	<p>Firewalls are configured to log all blocked packets which might indicate potentially malicious activity, and logs are available for ad hoc review by security personnel.</p> <p style="text-align: center;"><u>Firewall Utilization</u></p>	<p>Inspected the firewall system configuration and sample firewall system logs to determine that firewalls are configured to log all blocked packets.</p>	<p>No exceptions noted.</p>
7.7	<p>Firewall systems are in place to screen data flow between external parties and the designDATA network. All inbound and outbound data packets on all interfaces are intercepted and inspected. Packets that are not explicitly permitted by the security policy definition are rejected.</p>	<p>Inspected the firewall system rule sets to determine that firewall systems are in place to handle data flow between external parties and designDATA network.</p> <p>Inspected the firewall system configuration to determine that packets that are not explicitly permitted by the security policy definition are rejected.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>
7.8	<p>Hardware and software-based firewalls and routers are placed at all network perimeter and third-party entry points to designDATA networks.</p>	<p>Inspected the network diagram, router security policy, and firewall system rule sets to determine that hardware and software-based firewalls and routers are placed at all network perimeter and third party entry points to designDATA networks.</p> <p>Observed the network firewalls and routers to determine that hardware and software-based firewalls and routers are placed at all network perimeter and third-party entry points to designDATA networks.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>

MATRIX 7 DATA COMMUNICATIONS

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that the security infrastructure and practices secure against unauthorized access to designDATA's internal network and threats from connections to external networks are limited.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
7.9	<p>Multiple production firewalls are utilized for redundancy. The firewalls are set up in an active/passive configuration with automatic failover in the event of failure of the primary.</p>	<p>Inspected the network diagram to determine that multiple firewalls are setup for redundancy.</p>	No exceptions noted.
		<p>Inspected the firewall rule sets and failover configurations to determine that they are set up in a failover configuration.</p>	No exceptions noted.
7.10	<p>Firewall configurations filter internet traffic based on content and destination site address. The configurations include:</p> <ul style="list-style-type: none"> • The firewall performs stateful packet inspection. • Network Address Translation (NAT) services are enabled on all network firewalls to hide internal servers. • Firewall ports are configured to allow only specific types of traffic between certain destinations. All unused ports on the firewall are blocked. • The firewall is configured to deny all traffic that is not specifically authorized in the rule set. 	<p>Inspected firewall configurations to determine that firewall configurations filter internet traffic based on content and destination site address, and that the firewall performs stateful packet inspection.</p>	No exceptions noted.
		<p>Inspected the firewall configuration to determine that the NAT services are enabled on all network firewalls.</p>	No exceptions noted.
		<p>Inspected the firewall system configuration to determine that firewalls are configured to allow only specific types of traffic between certain destinations, and that unused ports are disabled.</p>	No exceptions noted.

MATRIX 7 DATA COMMUNICATIONS

Control Objective Specified by the Service Organization: Control activities provide reasonable assurance that the security infrastructure and practices secure against unauthorized access to designDATA's internal network and threats from connections to external networks are limited.

Control Point	Control Activity Described by the Service Organization	Test of Control Activity by the Service Auditor	Test Results Determined by the Service Auditor
7.11	<p>designDATA actively utilizes the following firewall features for protection at the perimeter of the network and between network segments:</p> <ul style="list-style-type: none"> • Stateful packet inspection • IPsec / Remote Ethernet Device (RED) site-to-site tunnel • TLS client-based VPN • Intrusion Detection and Prevention • Advance Threat Protection • Logging and • Reporting. 	<p>Inspected the firewall documentation to determine that the firewall was configured to deny traffic that was not specifically authorized in the rule set.</p> <p>Inspected firewall configurations to determine that designDATA actively utilizes the stated firewall features for protection at the perimeter of the network and between network segments.</p>	<p>No exceptions noted.</p> <p>No exceptions noted.</p>

SECTION 5

OTHER INFORMATION PROVIDED BY THE SERVICE ORGANIZATION

MATRIX 8 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of the Cyxtera data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
	<p>Cyxtera Data Center <i>Sterling, VA</i></p> <p><u>Physical Security</u></p>	
8.1	<p>Physical security policies and procedures are in place to guide personnel in the following areas:</p> <ul style="list-style-type: none"> • Data center access for employees, contractors and visitors • Security monitoring • Security assessments and access activity reviews. 	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.2	Site Authorizers are utilized to approve permanent access to the data centers.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.3	Security access controls (i.e. physical barriers and doors, card controlled entry points biometric scanning, video surveillance and/or manned reception desks) are utilized to protect areas that contain information and information processing facilities.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.4	Control mechanisms are in place to limit physical access to restricted data center areas such as the raised floor equipment rooms, transport areas, and critical power and mechanical infrastructure.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.5	Data center badge access requests for Company employees and contractors require a completed badge access request approved by site authorizers. Badge access requests for customers require a completed badge access request approved by an authorized customer representative.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.

MATRIX 8 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of the Cyxtera data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
8.6	Data center security personnel undergo a certification process upon hire to maintain awareness and help ensure adherence to current physical security policies and procedures.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.7	Data center access for Company personnel is revoked as a component of the employee termination process.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.8	Temporary access to the data centers for Company contractors must be pre-approved by work order or ticket. Temporary access to data centers for customers requires prior authorization by the authorized customer representative.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.9	Customer-maintained access lists are utilized to identify customer representatives authorized to request permanent or temporary access to the data center(s) where the customer colocation space resides.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.10	Visitor logs are maintained for at least 90 days to document visitor activity at the data centers.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.11	Visitors are required to be escorted by an authorized Company employee or authorized customer representative at all times while in the data centers.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.12	Persons entering the data centers must present valid government-issued photo ID, or display and use a valid Company photo access badge prior to entering the facility.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.13	CCTV surveillance video and/or ACS activity logs are retained for a minimum of 90 calendar days.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.

MATRIX 8 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of the Cyxtera data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
8.14	Data center security personnel and the PSCC monitor access to the data centers 24 hours a day, seven days a week, using reports from the physical security access mechanisms, alarms and CCTV video surveillance systems.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.15	Access points such as delivery and loading areas and other points where unauthorized persons may enter the premises are controlled and, where applicable, are isolated from information processing facilities to avoid unauthorized access.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.16	An inventory of access badges and metal keys designated for loan to employees, customers, or contractors, as applicable by location, is performed at least once per day to account for all badges and metal keys.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.17	All shipments received at the data centers are stored in a physically secured location.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.18	Access to the shipping and receiving areas at the data centers is restricted to authorized personnel.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.19	The GRC team performs a remote risk assessment of the data centers on an annual basis to help ensure physical and environmental security policies and procedures are followed. Findings of noncompliance are reported to data center security personnel or facility management personnel for remediation.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.20	Badge access reviews are performed annually to help ensure that access to the data center facilities is restricted to authorized personnel.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.

MATRIX 8 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of the Cyxtera data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
<u>Environmental Security</u>		
8.21	Environmental security policies and procedures are in place to guide personnel in the following areas: <ul style="list-style-type: none"> • Equipment specifications and operating instructions • Equipment inspections • Preventive maintenance schedules (internal and external maintenance activities). 	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.22	A BMS is configured to monitor data center equipment including, but not limited to, the following: <ul style="list-style-type: none"> • Fire detection and suppression systems, as applicable • HVAC units • Generators, as applicable • Electrical systems, as applicable 	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.23	The BMS is configured to notify data center staff either via on-screen and e-mail alerts when predefined thresholds are exceeded on monitored devices.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.24	Power management equipment is in place at each data center.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.25	Third party specialists inspect power management systems according to a predefined maintenance schedule.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.26	Fire detection and suppression equipment is in place at each data center.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.

MATRIX 8 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of the Cyxtera data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
8.27	Third party specialists inspect fire detection and suppression systems on an annual basis.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.28	HVAC systems are in place at each data center.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.29	Third party specialists inspect HVAC systems and water detection sensors, as applicable, according to a predefined maintenance schedule.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.
8.30	The GRC team performs a remote risk assessment of the data centers on an annual basis to ensure physical and environmental security policies and procedures are followed. Findings of noncompliance are reported to data center security personnel or facility management personnel for remediation.	SOC 1 report for Cyxtera, for the period July 1, 2018 to June 30, 2019.

MATRIX 9 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of a ByteGrid Holdings LLC data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
	<p style="text-align: center;">ByteGrid Holdings LLC Datacenter <i>Metro Washington DC Campus, Silver Spring, MD</i></p> <p style="text-align: center;"><u>Physical Security</u></p>	
9.1	Policies and procedures are in place to guide personnel in physical security practices.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.2	Physical access to systems is approved and granted to an employee as a component of the hiring process.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.3	A manned reception desk is in place to monitor and control access to the entrance of the office facility during standard business hours.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.4	A badge access system controls access to and within the office facility.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.5	Personnel are assigned to predefined badge access security zones based on job responsibilities.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.6	The badge access system logs successful and failed physical access attempts. The logs can be pulled for review if necessary.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.7	Privileged access to the badge access system was restricted to authorized personnel.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.

MATRIX 9 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of a ByteGrid Holdings LLC data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
9.8	Access to the server room is restricted to badge access cards assigned to authorized personnel.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.9	A video surveillance system is in place with footage retained for at least 90 days.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.10	Visitors to the facility and server room are required to be escorted by an authorized employee.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.11	Physical access to systems is revoked as a component of the termination process.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.12	User access to the badge access systems is reviewed at least annually.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
<u>Environmental Security</u>		
9.13	Environmental threats (e.g. floods, fires, electrical discharge, etc.) that could impair the availability of the system are considered and identified as a part of the business continuity policies and procedures.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.14	A centralized environmental monitoring system is in place to monitor facilities housing production systems.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.15	Temperature and humidity sensor systems are in place in the facility.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.

MATRIX 9 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of a ByteGrid Holdings LLC data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
9.16	Fire detection and prevention systems are present throughout the facility including smoke detection devices, hand held fire extinguishers, and pre-action dry pipe fire suppression.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.17	The pre-action dry pipe fire suppression systems are tested and inspected by a third-party on a quarterly basis.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.18	Handheld fire extinguishers are inspected on an annual basis to ensure that the pressure is within the recommended levels.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.19	The data center facilities are equipped with raised flooring to elevate equipment and help facilitate cooling.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.20	The data center facilities are equipped with a leak detection system to detect water in the event of a flood or water leakage.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.21	An uninterruptable power supply (UPS) is in place to provide power to critical infrastructure equipment in the event of a temporary power loss or power surge.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.22	The UPS units are inspected and maintained by a third-party on an annual basis.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.23	Generators fueled by diesel fuel are in place to provide power to the data center in the event of an extended power outage.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.24	The generators are tested on a weekly basis.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.

MATRIX 9 SERVICES AND CONTROLS PROVIDED BY THIRD PARTY DATA CENTERS.

designDATA utilizes the services and controls of a ByteGrid Holdings LLC data center for housing critical production computer servers, applications, and networking equipment of designDATA and customers. The information within the table below describes some, but not all, of these utilized services and controls.

Control Point	Control Activity of Third Party Data Center Described by the Service Organization	Resources utilized by the Service Organization to provide this Description
9.25	Preventive maintenance inspections and service is performed on the generators by a third-party on a semi-annual basis.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.26	The facility is equipped with multiple HVAC units that provide redundancy in the event of one unit's failure.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.27	The HVAC units are inspected and maintained by a third-party on a semi-annual basis.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.28	Environment protection policies and procedures are documented and maintained.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.
9.29	Redundant architecture is in place to migrate business operations to alternate infrastructure in the event normal processing infrastructure becomes unavailable.	SOC 2 Type 2 report for ByteGrid Holdings LLC for the period January 1, 2018 to December 31, 2018.

END OF REPORT