

STATE MODEL

CLOUD COMPUTING SERVICES SPECIAL PROVISIONS

(Software as a Service)

THESE SPECIAL PROVISIONS ARE ONLY TO BE USED FOR SOFTWARE AS A SERVICE (SaaS), AS DEFINED BELOW. THESE SPECIAL PROVISIONS ARE TO BE ATTACHED TO THE GENERAL PROVISIONS – INFORMATION TECHNOLOGY AND SHOULD BE ACCOMPANIED BY, A STATEMENT OF WORK (SOW) AND SERVICE LEVEL AGREEMENT (SLA). SECURITY REQUIREMENTS DESIGNATED IN THIS DOCUMENT ARE ASSUMING A NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) LOW CLASSIFICATION, UNLESS OTHERWISE SET FORTH IN THE SOW. A HIGHER CLASSIFICATION MAY REQUIRE DIFFERENT SECURITY REQUIREMENTS. STATE AGENCIES MUST FIRST:

- A. CLASSIFY THEIR DATA PURSUANT TO THE CALIFORNIA STATE ADMINISTRATIVE MANUAL (SAM) 5305.5;
- B. CONSIDER THE FACTORS TO BE TAKEN INTO ACCOUNT WHEN SELECTING A PARTICULAR TECHNOLOGICAL APPROACH, IN ACCORDANCE WITH SAM 4981.1, 4983 AND 4983.1 AND THEN;
- C. MODIFY THESE SPECIAL PROVISIONS THROUGH THE SOW AND/OR SLA TO MEET THE NEEDS OF EACH ACQUISITION.

1. Definitions

- a) **“Cloud Software as a Service (SaaS)”** - The capability provided to the consumer is to use applications made available by the provider running on a cloud infrastructure. The applications are accessible from various client devices through a thin client interface such as a web browser (e.g., web-based email). The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.
- b) **“Cloud Platform as a Service (PaaS)”** - The capability provided to the consumer is to deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages and tools supported by the provider. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, or storage, but has control over the deployed applications and possibly application hosting environment configurations.
- c) **“Cloud Infrastructure as a Service (IaaS)”** - The capability provided to the consumer is to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. The consumer does not manage or control the underlying cloud infrastructure but has control over operating systems; storage, deployed applications, and possibly limited control of select networking components (e.g., host firewalls).
- d) **“Data”** - means any information, formulae, algorithms, or other content that the State, the State’s employees, agents and end users upload, create or modify using the SaaS pursuant to this Contract. Data also includes user identification information and metadata which may contain Data or from which the State’s Data may be ascertainable.
- e) **“Data Breach”** - means any access, destruction, loss, theft, use, modification or disclosure of Data by an unauthorized party or that is in violation of Contract terms and/or applicable state or federal law.
- f) **“Encryption”** - Conversion of plaintext to ciphertext through the use of a Federal Information Processing Standards (FIPS) validated cryptographic algorithm. [FIPS 140-2]
- g) **“Recovery Point Objective (RPO)”** - means the point in time to which Data can be recovered and/or systems restored when service is restored after an interruption. The Recovery Point Objective is expressed as a length of time between the interruption and the most proximate backup of Data immediately preceding the interruption. The RPO is detailed in the SLA.

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- h) **“Recovery Time Objective (RTO)”** - means the period of time within which information technology services, systems, applications and functions must be recovered following an unplanned interruption. The RTO is detailed in the SLA.

Terms

2. SaaS AVAILABILITY: Unless otherwise stated in the Statement of Work,

- a) The SaaS shall be available twenty-four (24) hours per day, 365 days per year (excluding agreed-upon maintenance downtime).
- b) If SaaS monthly availability averages less than 99.9% (excluding agreed-upon maintenance downtime), the State shall be entitled to recover damages, apply credits or use other contractual remedies as set forth in the Statement of Work.
- c) If SaaS monthly availability averages less than 99.9% (excluding agreed-upon maintenance downtime), for three (3) or more months in a rolling twelve-month period, the State may terminate the contract for material breach in accordance with the Termination for Default provision in the General Provisions – Information Technology.
- d) Contractor shall provide advance written notice to the State in the manner set forth in the Statement of Work of any major upgrades or changes that will affect the SaaS availability.

3. DATA AVAILABILITY: Unless otherwise stated in the Statement of Work,

- a) The Data shall be available twenty-four (24) hours per day, 365 days per year (excluding agreed-upon maintenance downtime).
- b) If Data monthly availability averages less than 99.9% (excluding agreed-upon maintenance downtime), the State shall be entitled to recover damages, apply credits or use other contractual remedies as set forth in the Statement of Work if the State is unable to access the Data as a result of:
 - 1) Acts or omission of Contractor;
 - 2) Acts or omissions of third parties working on behalf of Contractor;
 - 3) Network compromise, network intrusion, hacks, introduction of viruses, disabling devices, malware and other forms of attack that can disrupt access to Contractor’s server, to the extent such attack would have been prevented by Contractor taking reasonable industry standard precautions;
 - 4) Power outages or other telecommunications or Internet failures, to the extent such outages were within Contractor’s direct or express control.
- c) If Data monthly availability averages less than 99.9% (excluding agreed-upon maintenance downtime), for three (3) or more months in a rolling twelve-month period, the State may terminate the contract for material breach in accordance with the Termination for Default provision in the General Provisions – Information Technology.

4. SaaS and DATA SECURITY:

- a) In addition to the Compliance with Statutes and Regulations provision set forth in the General Provisions – Information Technology, Contractor shall certify to the State:
 - 1) The sufficiency of its security standards, tools, technologies and procedures in providing SaaS under this Contract;
 - 2) Compliance with the following:
 - i. The California Information Practices Act (Civil Code Sections 1798 et seq.);
 - ii. Current NIST special publications 800-171 Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations. Third party audit results and Contractor’s plan to correct any negative findings shall be made available to the State upon request ;

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- iii. Undergo an annual Statement on Standards for Attestation Engagements (SSAE) No. 16 Service Organization Control (SOC) 2 Type II audit. Third party audit results and Contractor's plan to correct any negative findings and implementation progress reports shall be made available to the State upon request; and
- iv. Privacy provisions of the Federal Privacy Act of 1974;
- 3) Compliance with industry standards and guidelines applicable to the SaaS services being provided. Relevant security provisions may include, but are not limited to: Health Insurance Portability and Accountability Act of 1996, IRS 1075, Health Information Technology for Economic and Clinical (HITECH) Act, Criminal Justice Information Services (CJIS) Security Policy, Social Security Administration (SSA) Electronic Information Exchange Security Requirements, and the Payment Card Industry (PCI) Data Security Standard (DSS) as well as their associated Cloud Computing Guidelines.
- b) Contractor shall implement and maintain all appropriate administrative, physical, technical and procedural safeguards in accordance with section a) above at all times during the term of this Contract to secure such Data from Data Breach, protect the Data and the SaaS from hacks, introduction of viruses, disabling devices, malware and other forms of malicious or inadvertent acts that can disrupt the State's access to its Data.
- c) Contractor shall allow the State reasonable access to SaaS security logs, latency statistics, and other related SaaS security data that affect this Contract and the State's Data, at no cost to the State.
- d) Contractor assumes responsibility for the security and confidentiality of the Data under its control.
- e) No Data shall be copied, modified, destroyed or deleted by Contractor other than for normal operation or maintenance of SaaS during the Contract period without prior written notice to and written approval by the State.
- f) Remote access to Data from outside the continental United States, including remote access to Data by authorized SaaS support staff in identified support centers, is prohibited unless approved in advance in writing by:
 - 1) the Agency Information Security Officer, with written notice to the State Chief Information Security Officer, or
 - 2) in the absence of an Agency Information Security Officer, the State Chief Information Security Officer.

5. ENCRYPTION: Confidential, sensitive or personal information shall be encrypted in accordance with California State Administrative Manual 5350.1 and California Statewide Information Management Manual 5305-A.

6. DATA LOCATION: Unless otherwise stated in the Statement of Work and approved in advance in writing by:

- 1) the Agency Information Security Officer, with written notice to the State Chief Information Security Officer, or
- 2) in the absence of an Agency Information Security Officer, the State Chief Information Security Officer,

the physical location of Contractor's data center where the Data is stored shall be within the continental United States.

7. RIGHTS TO DATA: The parties agree that as between them, all rights, including all intellectual property rights, in and to Data shall remain the exclusive property of the State, and Contractor has a limited, non-exclusive license to access and use the Data as provided to Contractor solely for performing its obligations under the Contract. Nothing herein shall be construed to confer any license or right to the Data, including user tracking and exception Data within the system, by implication, estoppel or otherwise, under copyright or other intellectual property rights, to any third party. Unauthorized use of Data by Contractor or third parties is prohibited. For the purposes of this requirement,

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the phrase “unauthorized use” means the data mining or processing of data, stored or transmitted by the service, for unrelated commercial purposes, advertising or advertising-related purposes, or for any other purpose other than security or service delivery analysis that is not explicitly authorized.

8. TRANSITION PERIOD:

- a) Unless otherwise stated in the SOW, for ninety (90) days prior to the expiration date of this Contract, or upon notice of termination of this Contract, Contractor shall assist the State in extracting and/or transitioning all Data in the format determined by the State (“Transition Period”).
- b) The Transition Period may be modified in the SOW or as agreed upon in writing by the parties in a contract amendment.
- c) During the Transition Period, SaaS and Data access shall continue to be made available to the State without alteration.
- d) Contractor agrees to compensate the State for damages or losses the State incurs as a result of Contractor’s failure to comply with this section in accordance with the Limitation of Liability provision set forth in the General Provisions - Information Technology.
- e) Unless otherwise stated in the SOW, the Contractor shall permanently destroy or render inaccessible any portion of the Data in Contractor’s and/or subcontractor’s possession or control following the expiration of all obligations in this section. Within thirty (30) days, Contractor shall issue a written statement to the State confirming the destruction or inaccessibility of the State’s Data.
- f) The State at its option, may purchase additional transition services as agreed upon in the SOW.

9. DATA BREACH: Unless otherwise stated in the Statement of Work,

- a) Upon discovery or reasonable belief of any Data Breach, Contractor shall notify the State by the fastest means available and also in writing, with additional notification provided to the Chief Information Security Officer or designee of the contracting agency. Contractor shall provide such notification within forty-eight (48) hours after Contractor reasonably believes there has been such a Data Breach. Contractor’s notification shall identify:
 - 1) The nature of the Data Breach;
 - 2) The Data accessed, used or disclosed;
 - 3) The person(s) who accessed, used, disclosed and/or received Data (if known);
 - 4) What Contractor has done or will do to quarantine and mitigate the Data Breach; and
 - 5) What corrective action Contractor has taken or will take to prevent future Data Breaches.
- b) Contractor will provide daily updates, or more frequently if required by the State, regarding findings and actions performed by Contractor until the Data Breach has been effectively resolved to the State’s satisfaction.
- c) Contractor shall quarantine the Data Breach, ensure secure access to Data, and repair SaaS as needed in accordance with the SLA. Failure to do so may result in the State exercising its options for assessing damages or other remedies under this Contract.
- d) Notwithstanding anything to the contrary in the General Provisions - Information Technology, in performing services under this Contract, and to the extent authorized by the State in the Statement of Work, Contractor may be permitted by the State to use systems, or may be granted access to the State systems, which store, transmit or process State owned, licensed or maintained computerized Data consisting of personal information, as defined by Civil Code Section 1798.29 (g). If the Contractor causes or knowingly experiences a breach of the security of such Data, Contractor shall immediately report any breach of security of such system to the State following discovery or notification of the breach in the security of such Data. The State’s Chief Information Security Officer, or designee, shall determine whether notification to the individuals whose Data has been lost or breached is appropriate. If personal information of any resident of California was, or is reasonably believed to have been acquired by an unauthorized person as a result of a

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security breach of such system and Data that is not due to the fault of the State or any person or entity under the control of the State, Contractor shall bear any and all costs associated with the State's notification obligations and other obligations set forth in Civil Code Section 1798.29 (d) as well as the cost of credit monitoring, subject to the dollar limitation, if any, agreed to by the State and Contractor in the applicable Statement of Work. These costs may include, but are not limited to staff time, material costs, postage, media announcements, and other identifiable costs associated with the breach of the security of such personal information.

- e) Contractor shall conduct an investigation of the Data Breach and shall share the report of the investigation with the State. The State and/or its authorized agents shall have the right to lead (if required by law) or participate in the investigation. Contractor shall cooperate fully with the State, its agents and law enforcement.

10. DISASTER RECOVERY/BUSINESS CONTINUITY: Unless otherwise stated in the Statement of Work,

- a) In the event of disaster or catastrophic failure that results in significant Data loss or extended loss of access to Data, Contractor shall notify the State by the fastest means available and also in writing, with additional notification provided to the Chief Information Security Officer or designee of the contracting agency. Contractor shall provide such notification within twenty-four (24) hours after Contractor reasonably believes there has been such a disaster or catastrophic failure. In the notification, Contractor shall inform the State of:
 - 1) The scale and quantity of the Data loss;
 - 2) What Contractor has done or will do to recover the Data and mitigate any deleterious effect of the Data loss; and
 - 3) What corrective action Contractor has taken or will take to prevent future Data loss.
 - 4) If Contractor fails to respond immediately and remedy the failure, the State may exercise its options for assessing damages or other remedies under this Contract.
- b) Contractor shall restore continuity of SaaS, restore Data in accordance with the RPO and RTO as set forth in the SLA, restore accessibility of Data, and repair SaaS as needed to meet the performance requirements stated in the SLA. Failure to do so may result in the State exercising its options for assessing damages or other remedies under this Contract.
- c) Contractor shall conduct an investigation of the disaster or catastrophic failure and shall share the report of the investigation with the State. The State and/or its authorized agents shall have the right to lead (if required by law) or participate in the investigation. Contractor shall cooperate fully with the State, its agents and law enforcement.

11. EXAMINATION AND AUDIT: In addition to the Examination and Audit provision set forth in the General Provisions - Information Technology, unless otherwise stated in the Statement of Work:

- a) Upon advance written request, Contractor agrees that the State or its designated representative shall have access to Contractor's SaaS, operational documentation, records and databases, including online inspections, that relate to the SaaS purchased by the State.
- b) The online inspection shall allow the State, its authorized agents, or a mutually acceptable third party to test that controls are in place and working as intended. Tests may include, but not be limited to, the following:
 - 1) Operating system/network vulnerability scans,
 - 2) Web application vulnerability scans,
 - 3) Database application vulnerability scans, and
 - 4) Any other scans to be performed by the State or representatives on behalf of the State.
- c) After any significant Data loss or Data Breach or as a result of any disaster or catastrophic failure, Contractor will at its expense have an independent, industry-recognized, State-approved third party perform an information security audit. The audit results shall be shared with the State within seven (7) days of Contractor's receipt of such results. Upon Contractor receiving the results of the audit, Contractor will

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provide the State with written evidence of planned remediation within thirty (30) days and promptly modify its security measures in order to meet its obligations under this Contract.

12. DISCOVERY: Contractor shall promptly notify the State upon receipt of any requests which in any way might reasonably require access to the Data of the State or the State's use of the SaaS. Contractor shall notify the State by the fastest means available and also in writing, with additional notification provided to the Chief Information Security Officer or designee of the contracting agency, unless prohibited by law from providing such notification. Contractor shall provide such notification within forty-eight (48) hours after Contractor receives the request. Contractor shall not respond to subpoenas, service of process, Public Records Act requests, and other legal requests directed at Contractor regarding this Contract without first notifying the State unless prohibited by law from providing such notification. Contractor agrees to provide its intended responses to the State with adequate time for the State to review, revise and, if necessary, seek a protective order in a court of competent jurisdiction. Contractor shall not respond to legal requests directed at the State unless authorized in writing to do so by the State.