

Protecting your Data on the Cloud An overview of Ramco's Data Security Measures on the Cloud



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Customer Background

This white paper describes how Ramco Systems ensures that customer data is well protected in its data center.

Data generated by companies through their business transactions is vulnerable to security threats, irrespective of whether they are stored within a client's premises or elsewhere in remotely located data centers, managed by third party service providers like Ramco Systems. The real cause for concern when it comes to data security is therefore not so much where the data is located as the clients' perception about the vulnerability of their data.

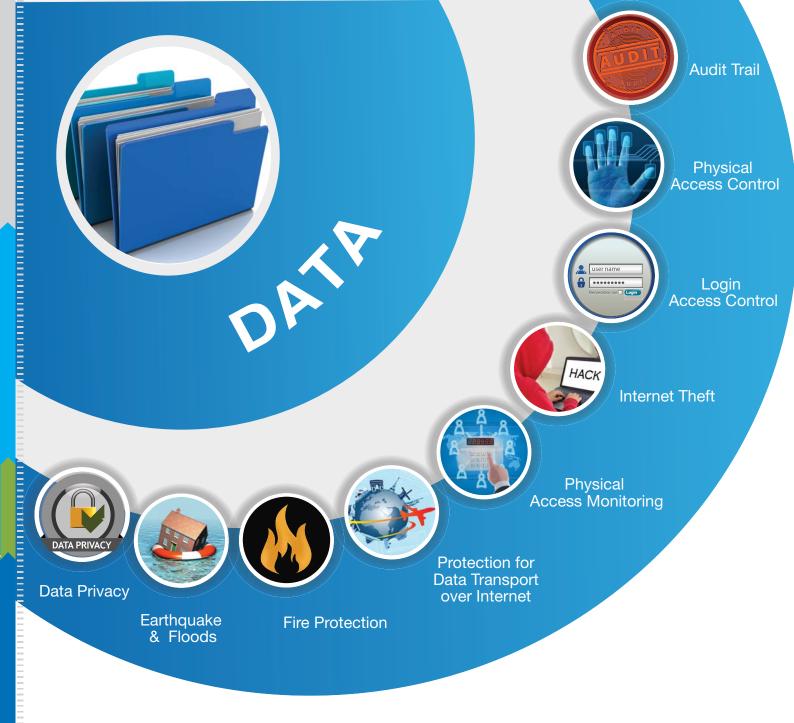
Firms feel secure about data stored within their own premises, seemingly under their control. The reason is not difficult to understand—data residing elsewhere cannot be "watched" by the customer, and this can create a psychological discomfort. The issue here is really no different from that surrounding our household valuables. Some individuals feel secure about storing their valuables inside their homes, while some others would avail of third party locker facilities. The protection which comes with third party lockers far outweighs the psychological discomfort of not being able to "watch" the storage facility located outside one's home.

Ramco Systems Limited not only secures the data of its own business, but also that of its customers. Data stored in Ramco's data centers tends to be more secure than in a client's premise for several reasons.

The data center in Ramco Systems has more than 430+ servers. These servers hold the worldwide business data of customer projects being executed by Ramco Systems. These servers are also connected to the global offices of Ramco Systems and their customers through high-speed networks and telecommunication systems.

To protect its data, Ramco Systems has put in place a comprehensive Information Security System as mandated by ISO27001 standards. This security system was subject to rigorous audit by BSI of London before certification. The certificate is an authentication of data and Information Security at the data center of Ramco Systems. A copy of the certificate is included.







Internal Theft: One of the security threats comes from unscrupulous employees. Such employees can pass data to competitors. Locating data in highly secure third-party data centers can deter employees from stealing data. The data center personnel employed by Ramco Systems have their backgrounds verified extensively during the recruitment process. They will not have an understanding of the customers' businesses as much as an internal employee of the customer. So their interest in the data is greatly reduced, thereby mitigating data theft risks.

Physical Access Control: The data center is a sensitive zone. Only authorized personnel can enter it. The entry is controlled through automatic access control systems that are linked to security alarms. This prevents public access and stray entries. All such entries are automatically logged in entry logs.





Physical Access Monitoring: The area in and around the data center is monitored 24X7 through surveillance cameras which capture the images of those entering that area. The video records are archived. Security guards are constantly watching the video monitor.

Login Access Control: This is a two dimensional access control measure. Firstly, only authentic users can login. Secondly, they can login only to the relevant transaction screens for which they have permissions. This mechanism prevents any unauthorized access to both transactions and data. Customers can define the access polices, or it can be set by an administrator designated by the customer. This way, the customer gets absolute control over the access.





Audit Trail: Even authentic usage is constantly tracked to find out who logged in, when the login happened, what the duration of the login was, what the usage pattern is, unusual usages noticed and so on, these are but a few of the possible ways by which tracking happens. Such trails discourage anyone from attempting to misuse the data. Thus, frauds can be both prevented and detected.

Data Transport over Internet: Data movements over the internet from the customers' office(s) to Ramco's data center is protected through encryptions and transported over a secure sockets layer. This prevents theft, as encryption renders the data meaningless and makes any theft harmless.

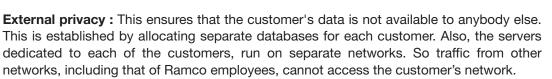


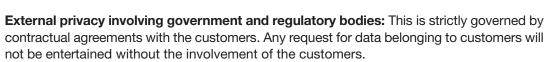


Firewall: Data arriving through the internet at the data center is filtered through the firewall. This is like immigration control, designed to detect illegal entrants. Only an authentic customer's data finally reaches the servers. Firewall policies are continually updated as per the Information Security Management System implemented in Ramco Systems. This protects customers' data from malicious software attacks.

Privacy: Privacy can be looked at in three ways.

Internal privacy: Here, the data from one department cannot be viewed or altered by another department. For instance, accounts data cannot be accessed by a stores person.







Fire and Natural Calamities: Natural disasters can happen anytime, anywhere and affect data and business activities. Fire, earthquakes and floods can ruin data and disrupt operations. Ramco has implemented a disaster recovery mechanism to handle such crises. First, the data center itself is subject to fire safety regulations. Second, all data is stored on high speed storage area networks. Data is backed up according to the data backup policy required by the Information Security Systems. Daily, weekly and monthly back-ups are taken. In the case of any unforeseen event, the media containing the back-up is restored for smooth operations to continue.



Conclusion: Ramco Systems takes the business of data security very seriously. Ramco runs its own worldwide business operation out of its data center and consequently appreciates the sensitivity towards data security. Information Security Management Systems (ISMS) is a comprehensive set of policies and procedures designed and implemented to realize very high levels of data and Information Security. This is continually received and accessed for effectiveness. Ramco Systems is fully committed to the security policy. As a mark of this commitment to information security, BSI Management Systems of the BSI Group, UK () recommended the ISO27001 certificate to Ramco Systems.

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