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Multi-Tier Cloud Security Standards :

What does it mean for CSP and Cloud Users

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Who is Clearmanage

- Singapore based CSA STAR, ISO 27001 and MTCS Tier 3 certified and trusted Managed Secure Cloud Service Provider
- Secure cloud services to government and enterprises with more than 8 years experience
- Provides private and virtual private cloud infrastructure serivce, cloud and advance security solution
- Provides end-to-end Managed Services to handle all aspect of cloud deployment, monitoring, operations and support needs
- Own and operate cloud infrastructure
- First to use IDA's cross-certification guidelines to cross-certify between MTCS SS 584 Tier 3 and CSA STAR

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Clearmanage Services

- MTCS L3 accredited cloud service
- Fully managed cloud service
- Private or virtual private cloud
- Managed security service

CSA STAR CERTIFICATION

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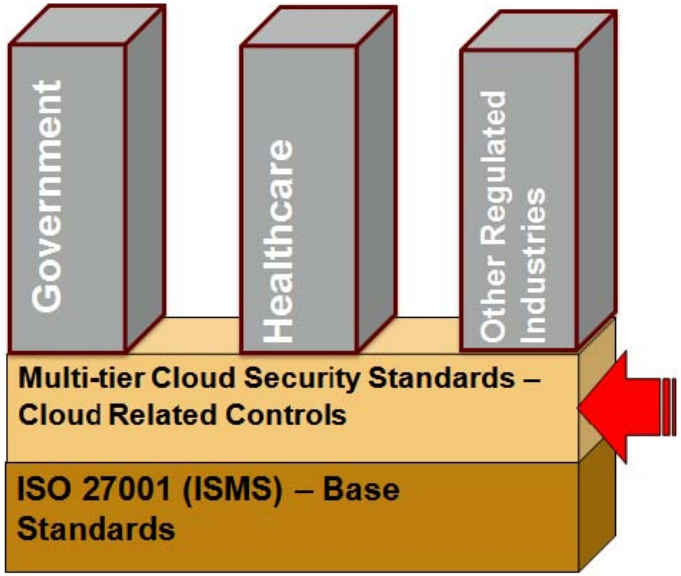
What is MTCS



Level	Overview	Security Control	Typical Usage
1	Designed for non-critical business use	Baseline controls to address low impact information systems	Test & development, simulation & public web site with public information
2	Designed to address needs of most organizations	Enhanced controls to address moderate impact information systems	Email, CRM, PII, credit card data & business critical systems with confidential business information
3	Designed to support organizations in regulated with specific industry needs applied additionally	Advanced controls to address high impact information systems	Financial & healthcare systems with sensitive information & highly confidential business data

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Impact to CSPs

- Voluntary industry standards
- Require self declaration on Cloud service and infrastructure
- Enforce policies, governance and process
- Systematic ITIL based service management
- Proactive monitoring, surveillance and continuous vulnerability assessment and improvement
- Huge investment on enterprise infra solution
  - Cisco, Dell, EMC, HDS, VMWare, etc
- Investment in advance security solution
  - ATP, PAM, PIM, NGIPS, NGFW, UTM, SIEM, etc
- Manpower and effort to develop, implement and enforce policies, systems, processes, documentations and records

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Benefits to CSPs

- Enhanced security and regular audit give higher trust factor
- Show existing and potential client enhanced capability
- Upsell of higher value services
- Baseline on which specific and higher security is being build on to meet Gov hosting compliance requirement
- Shorten delivery and gap to meet security requirement

Impact to Cloud Users

- Security outbreak and increase awareness
- Increase security requirement
- Compliance requirement for some industry
- High cost of securing and assuring infrastructure
- Resource required to operate infrastructure

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Benefit to Cloud Users

- Cloud infrastructure security is assured
- Lower cost to compliance
- Lower cost to operation or use secure infrastructure even if compliance not required

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Misconception of MTCS

- My resource is secure because CSP is MTCS certified
- My infrastructure will be taken care of by MTCS certified CSP
- MTCS is not recognized outside Singapore
- I only need MTCS to comply to Gov tender
- Different CSP implement the standards differently

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Private and Virtual Private Cloud

- Clearmanage private and virtual private cloud build and managed using same control matrix
- Baseline on which further security are build
- Provide our own internal audit and reporting to client
- Assured PC and VPC is as good, if not higher in security standing than MTCS public cloud

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Summary

- Benefit for both CSP and Cloud Users
- Assurance
- Still need both hand to clap
- Still need to check CSP proposed design for any project, if it meet different security requirements