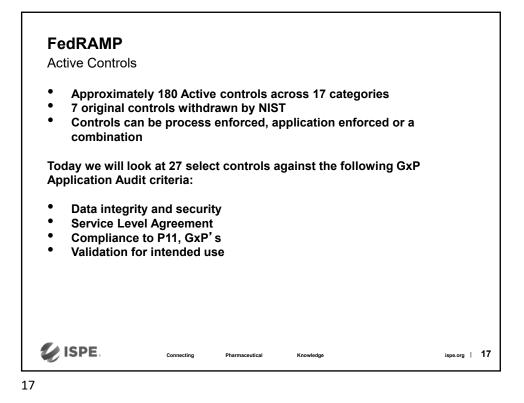
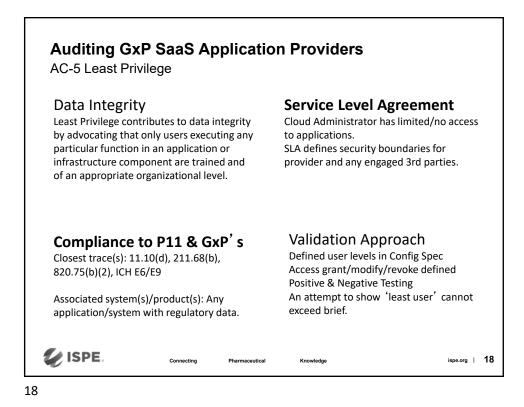
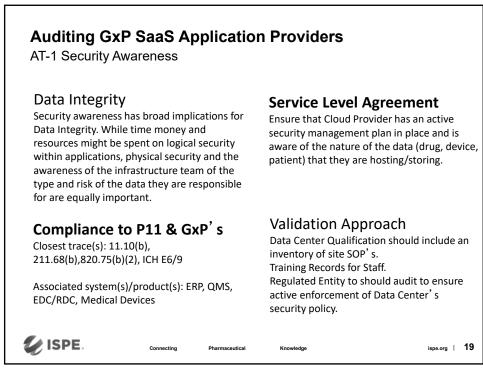
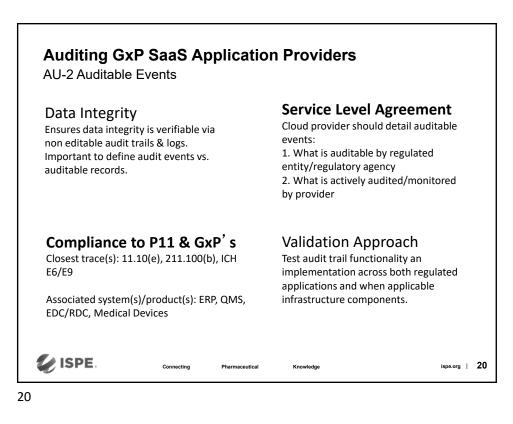


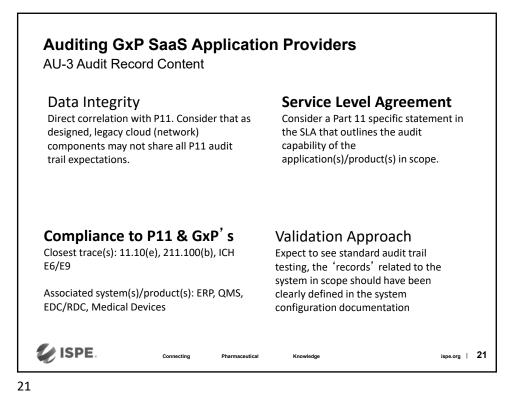
FedRAMP **Control Categories** Access Control Awareness and Training Audit and Accountability Security Assessment and Authorization Based on **Configuration Management Contingency Planning** NIST SP Identification and Authentication Incident Response Maintenance 800-53 Media Protection Physical and Environmental Protection Planning Personnel Security **Risk Assessment** System and Services Acquisition System and Communications Protection System and Information Integrity ISPE. ispe.org | 16 Connecting Pharmaceutical Knowledge

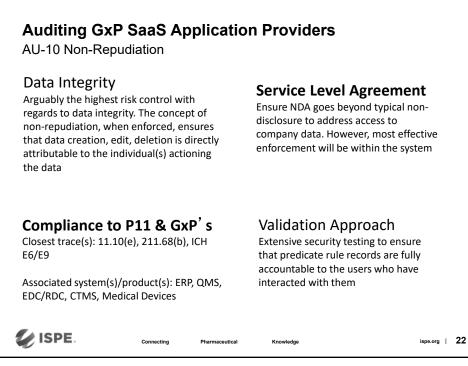


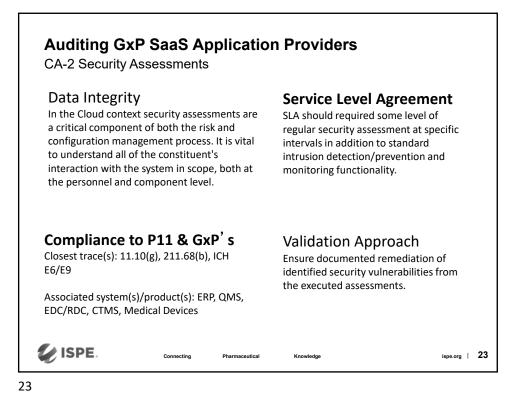


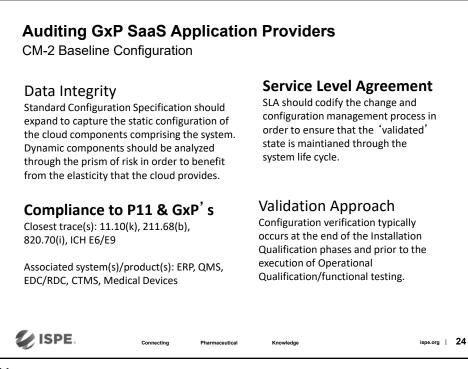


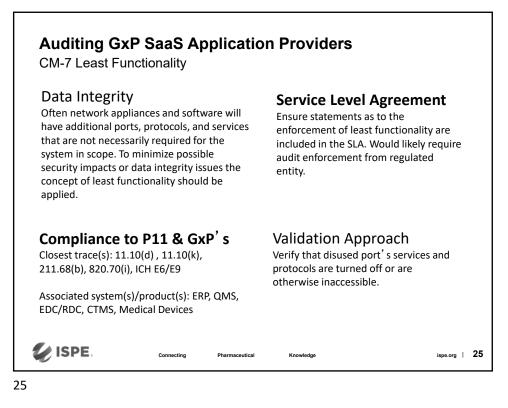


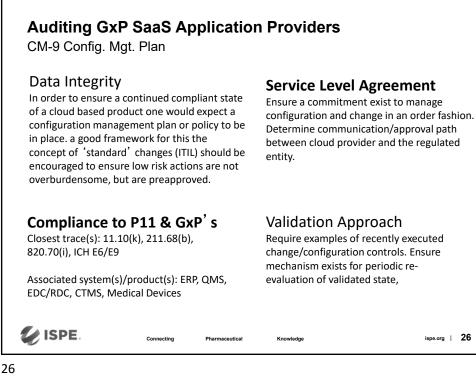


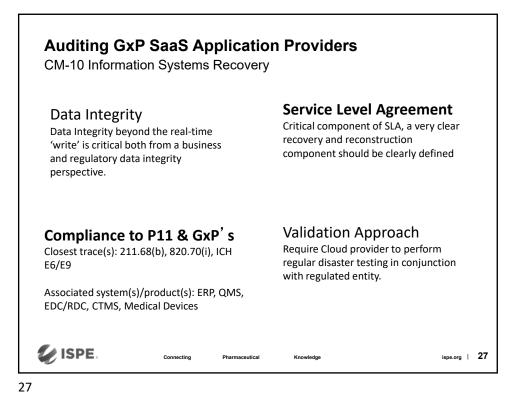


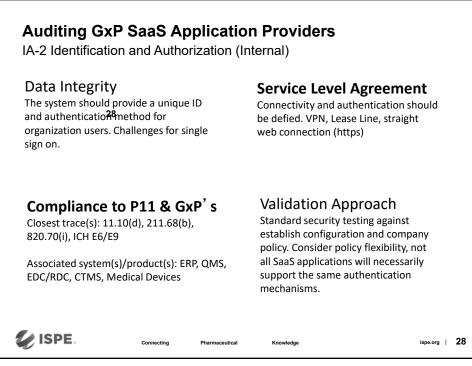


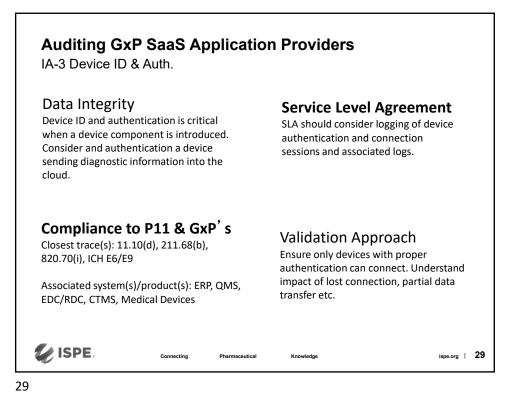


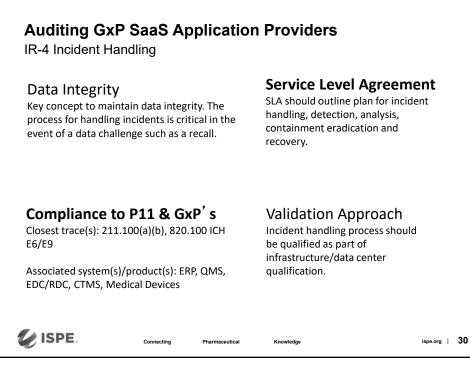


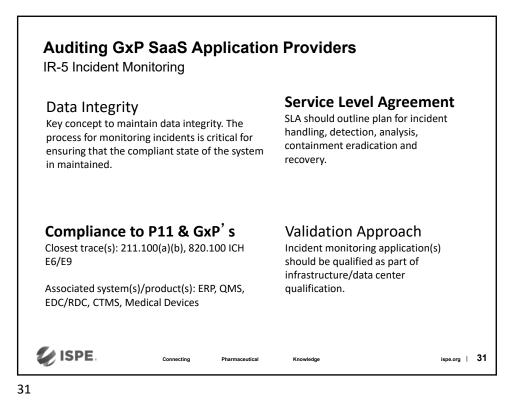


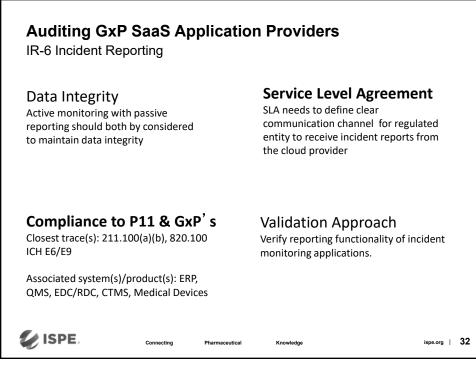


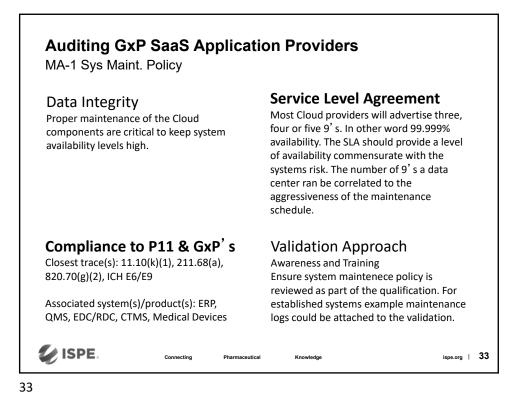




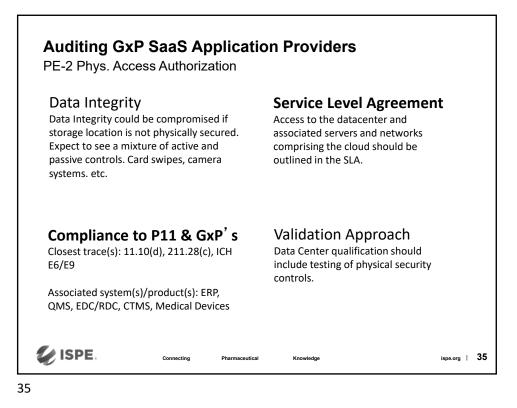


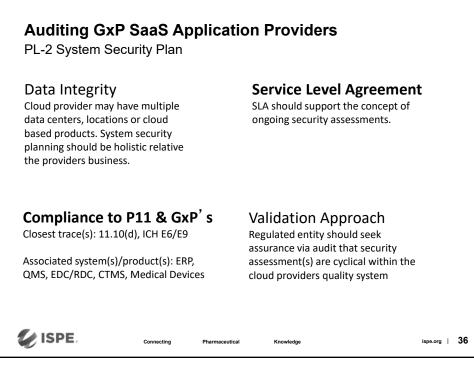


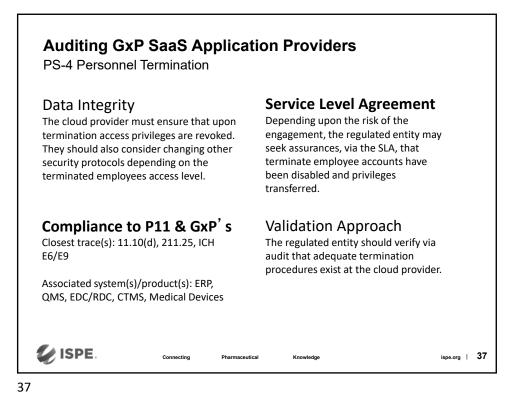


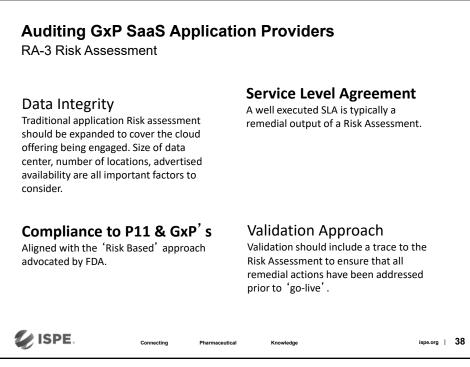


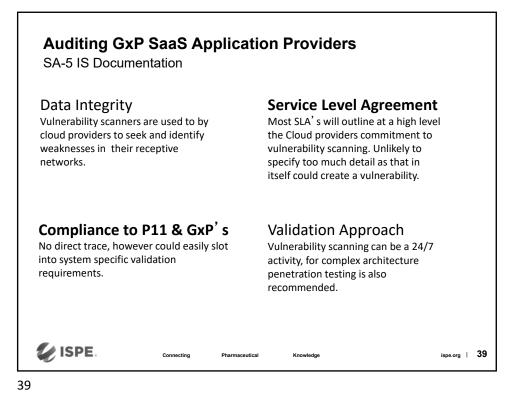


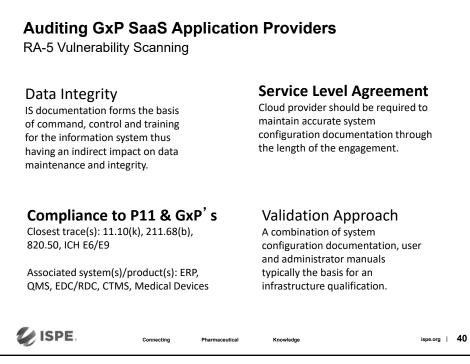


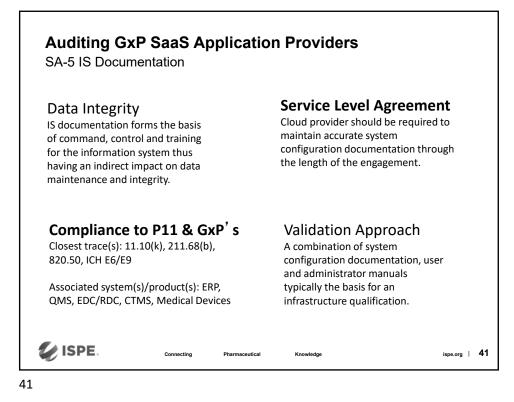


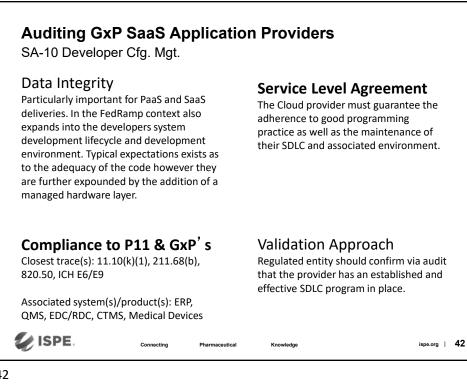












Auditing GxP SaaS Application Providers

SC-2 Application Partitioning

Data Integrity

Essential concept for virtualized applications performing regulated functions. The partitioning method must be clearly understood, defined and tested to ensure that data encroachment does not occur and that adequate resources exist for virtualized applications.

Compliance to P11 & GxP' s

Closest trace(s): 11.10(k)(1), 211.68(b), 820.50, ICH E6/E9

Associated system(s)/product(s): ERP, QMS, EDC/RDC, CTMS, Medical Devices

Service Level Agreement

SLA should provide assurance that application partition provides a sufficient border between constituents and that the hardware supporting the virtualized environment is sufficient for task.

Validation Approach

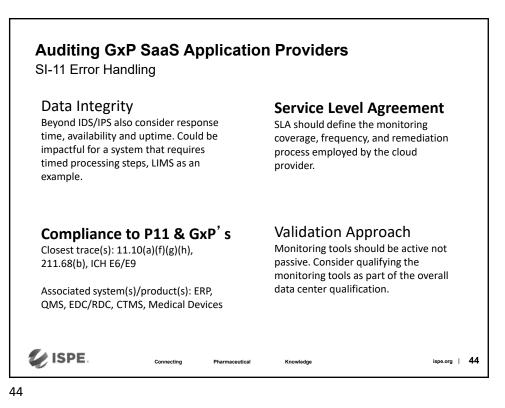
Knov

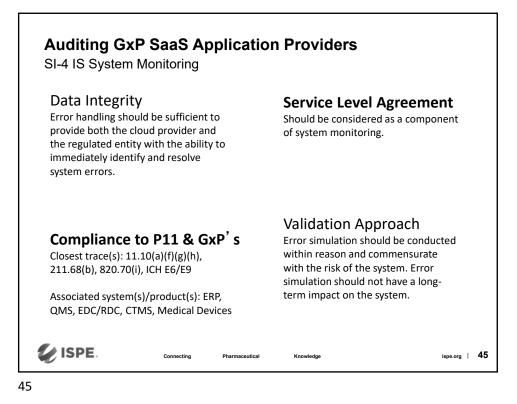
Relatively easy to verify for applications supporting Pharma. Caution should be taken for medical devices or critical clinical systems (IVRS/IWRS) with cloud component, would recommend private cloud only for this type of application.

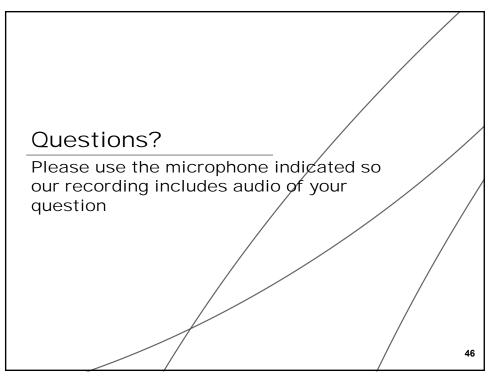
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