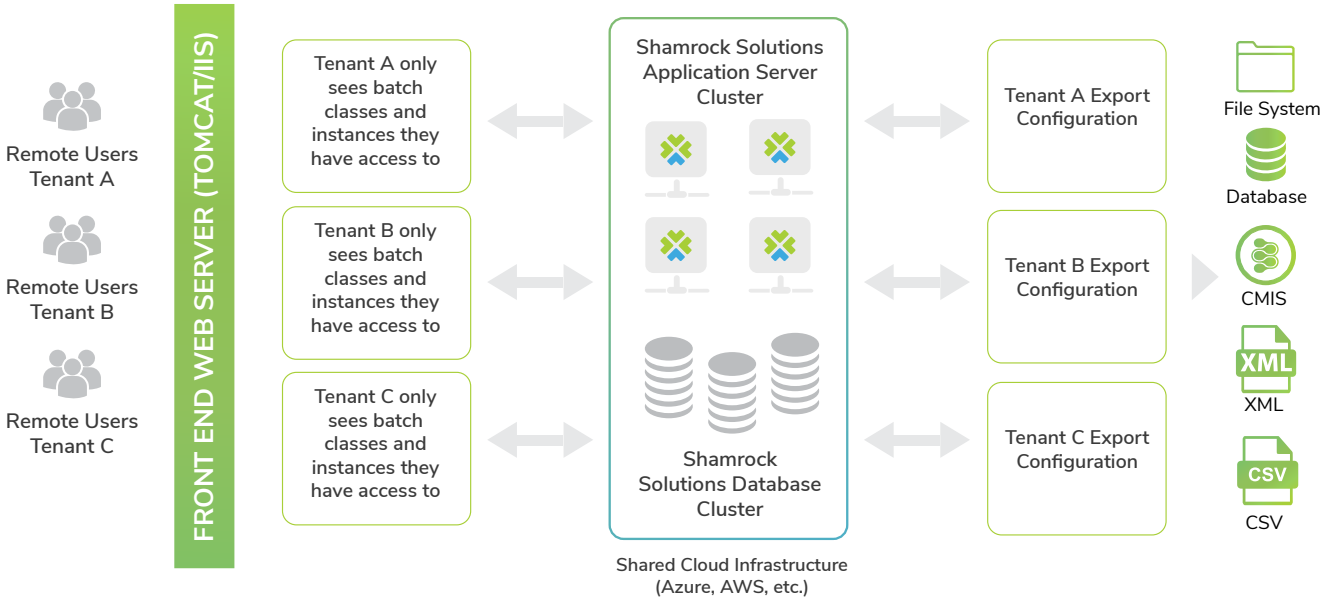
Intelligent Data Extraction Multitenant Architecture

The concept of multitenancy is individual instances of software running on a server or server cluster, yet the server is able to support multiple separate clients (tenants) individually, without sharing each other's information. In a system which is not multitenancy enabled, each client would require a separate piece of hardware as well as software configured just for that environment.

Multitenant solutions automatically partition the data and configuration for each client separately even though they reside on a single piece of hardware (server) and single instance of software. This is also a different architecture than a networked environment with multiple thick clients accessing the same central software and database.



The Technology

When considering the cloud environment today, multitenancy is an essential element to achieve administrative goals of increased transparency and throughput while enabling cost and security controls. Multitenancy is an approach used to reduce hardware costs and maintenance while improving availability. Multitenancy is a newer architecture design. As such, most advanced capture platforms on the market today are not equipped to take advantage of the benefits of this type of architectural implementation.

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Multitenancy Benefits

- **Value:** Lower set-up costs with installation on a single server, and lower ongoing maintenance costs with no client software.
- **Control:** Capability to host solutions in public, private or hybrid cloud environments; ability to provide central support of applications within an organization.
- **Security:** Keep data and information separated between distinct operating groups.
- **Scalability:** Increase processing capacity by plugging more tenants or clustered servers into the Shamrock Solutions technology stack. Upgrades are also streamlined since there is a single point of management.
- **Performance:** Maximize document capture, classification and extraction processes for optimum speed, with the ability to fine tune processes from a centralized administrator.

Non Multitenant Environment

In this environment, multiple departments use an advanced capture application. Each department will need independent hardware and software stations for each user on the system. Each workstation would have to be individually installed and maintained. Additional time would be spent to install software and hardware for each department and to maintain and support these separate environments. In addition, the costs of the hardware and installation would need to be taken into account for each department. The departments would have to determine if the additional cost of installation is justified over the benefits. Overall, it's a time consuming and costly task to set these separate departments up from a systems perspective.

Multitenant Environment

In a multitenant environment, the system is a shared corporate service with a centralized advanced capture server application. Any department requiring the use of the system would simply get an access point and begin to use the application immediately through a thin client connection. The software and application would be installed only once centrally. In addition, the server would be centrally maintained. A small department needing these services could simply gain a connection to the central advanced capture server and immediately begin to work on setting up their application. This method is quick with a simple transition to deploy the technology throughout the organization. Furthermore, the servers can be securely updated and maintained in a hosted IT environment versus deployed on less secure hardware throughout the organization.