Qvest.Cloud

Multicloud On-premise

Hybrid

User Management Cost Control
Scheduling Ingest
NRCS Security
AI
Measuring
Automation Monitoring Orchestration
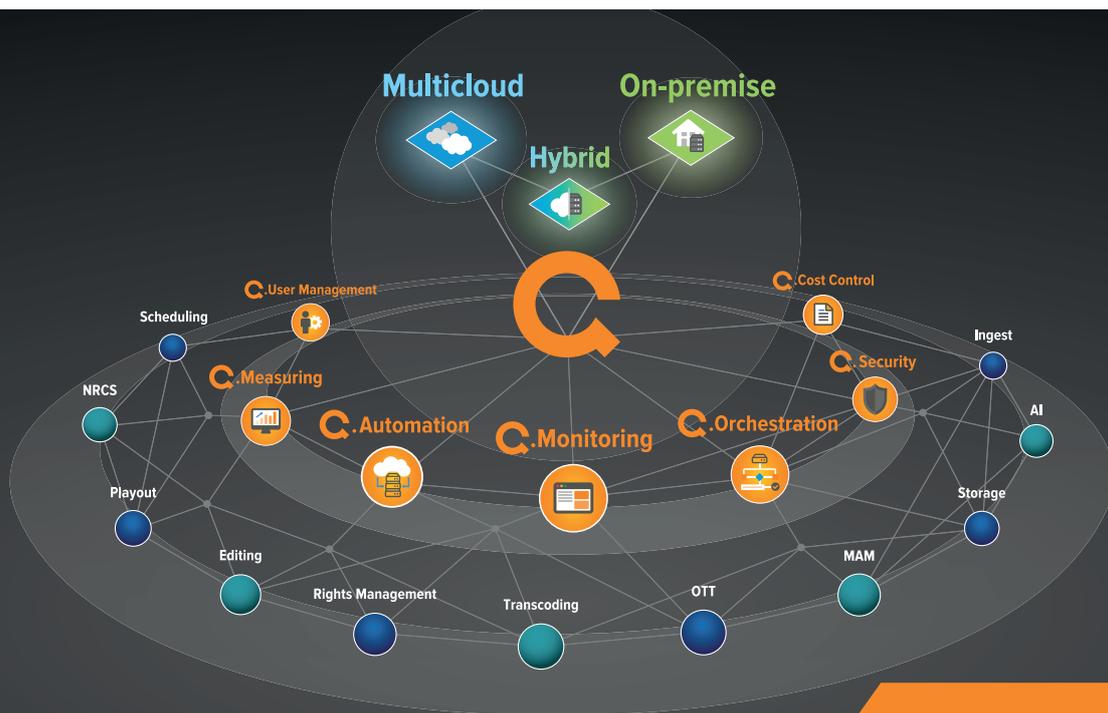Playout Storage
Editing MAM
Rights Management Transcoding OTT

About Qvest.Cloud

Sign on once - Control everything

Qvest.Cloud is an advanced management platform that enables third-party cloud applications to be networked into integrated end-to-end business processes used and monitored via a central user interface. Integral components of the cloud-native platform are cross-application functions such as workflow orchestration, cloud automation, user management with a single sign-on, access management, monitoring, measuring, cost control and comprehensive IT security.

With Qvest.Cloud, it is easier than ever to integrate and operate media services and applications using modern web technologies. Qvest.Cloud breaks down the barriers between installations in local data centres, private clouds and public clouds such as Amazon Web Services, Microsoft Azure or Google Cloud. Based on an open interface design, third-party IT and media applications can be easily aggregated in the back end and operated in the front end via one single portal, eliminating the need to manage separate user accounts for every application.

With Qvest.Cloud, almost all business processes and media workflows can be accelerated and made agile to be able to react flexibly to changing market conditions and production requirements at any time. Vertical and horizontal scalability of the Qvest.Cloud platform allows for the short-term and temporary addition of required services and additional computing power. Load peaks of on-premise applications can be automatically scaled using cloud resources as a hybrid solution, eliminating the need for the technically complex and cost-intensive expansion of locally operated infrastructures.

Key facts

» highly versatile cloud management platform that radically simplifies the fully virtualised, hybrid and on-premise use of best-of-breed solutions

» open framework for multi-cloud and multi-application architectures that makes it easier than ever to combine desired cloud solutions

» provides ground-breaking media application management and workflow services

» unites third-party cloud applications, providing seamless integration with private and major public clouds such as Azure, AWS and GCP

» available for every business size, providing flexible pay-as-you-go plans for small and mid-sized media companies as well as custom-tailored enterprise solutions for large corporate clients

» grows with the customers' needs, offering perfect cloud elasticity along with a high degree of horizontal and vertical scalability – application-independent and 24/7

» generates new revenue streams, drives market differentiation and lowers the total cost of ownership by pushing Opex- and pay-per-use licencing

» provides perfect transparency, consolidating all contractual and legal terms regarding SLAs, T&Cs and privacy under one umbrella

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Please note: all information on the features and functionalities of Qvest.Cloud may be subject to change.

www.qvest.cloud

Qvest.Cloud

Qvest.Cloud Components

Ϙ.Automation

Cloud Automation builds and scales infrastructure and applications in an automated way

» Applications can scale automatically and new instances of applications can be created in seconds or minutes

» Moves instances of applications between on-premise, private and multiple public clouds

» Manages containerised applications and applications in VMs

Ϙ.Orchestration

Media Orchestration is powered by a cloud-native media workflow orchestrator

» Orchestrates the metadata and media flow between cloud-based media services

» Graphical tool for workflow design

» API for triggering and monitoring workflows (to be integrated into 3rd party applications)

» Custom workflow connectors can be added on a project basis

Ϙ.User Management

Central User and Access-Management for integrated systems and services

» The more the backend is composed of different components (microservices, applications etc.), the more a central user- and access-rights management is required

» Provides single sign-on (SSO), flexible authentication flows and identity brokering to on-premise and off-premise services

Ϙ.Monitoring

Consolidated Monitoring Dashboard for all services in the system

» Extensive monitoring capabilities and comprehensive visualisation are important for workflow-connected and virtualised systems

» For every integrated application, a strong focus lays on collecting as much status and monitoring information as possible

» Monitoring correlates events in workflows with events in third-party services and processes

Ϙ.Measuring

Measuring component to capture business-related consumption information

» Gather information about platform usage, allowing to scale the platform based on business needs

» Metrics are collected centrally and visualised with graphical user interface

» Collected data can be exported to customer systems for data analytics

Ϙ.Cost Control

Advanced planning functionality allowing efficient budget projection and control

» Provides transparency of resources consumption and usage of budgets for Qvest.Cloud services and connected applications

» Combines budget control with automation rules

» Offers cost projection and flexible contract models

Ϙ.Security

Security operations built into the platform

» The components of the Qvest.Cloud platform are built by design with the latest security standards

» Qvest Media provides optional cyber security services and security operations, monitoring all services 24/7 for security breaches or unusual activities

Ϙ.Foundation

Core framework that provides full connectivity to third-party solutions

» Integration packages built for many well-known media applications

» Portal as central access point to the applications managed by or connected to the platform

» API Gateway for homogenous access to APIs and lifecycle management of interface versions

Qvest.Cloud

Q.Automation

Automated building and scaling of infrastructure and application

The possibility of automating the deployment and scaling of applications is a main difference between legacy on-premise installations (where applications are usually installed manually) and cloud-native installations. Even if software is still installed manually in the cloud, it is very advantageous if legacy applications can be turned into "cloud-enabled" applications by automating their installation and scaling. The Cloud Automation module of Qvest.Cloud builds and scales infrastructure and applications in an automated way, enabling flexible sizing and making it easy to spin up new services. As such, it provides the infrastructure foundation for both Qvest.Cloud's own core services as well as third-party services and applications.

Qvest.Cloud Automation enables the management of small service entities (microservices) as well as their scaling, combined with a code repository. By defining automation for application deployments, rollouts/rollbacks, routing, load balancing, access control, scaling, policy enforcements and more, infrastructure resources are made identifiable, reproducible and consistent.

Qvest.Cloud Automation deploys, moves and removes instances of applications in and between multiple public clouds, private clouds and hybrid environments. It manages containerised applications, applications in virtual machines, the network and storage capacities. This can be done with manual triggers on defined schedules or by auto-scaling, using metrics and monitoring data based on the system load. To ensure a high availability of applications on the platform, Qvest. Cloud Automation also includes self-healing features: it monitors the availability of infrastructure elements and automatically creates new ones in case of failure or a crash.

Qvest.Cloud Automation is tightly integrated into the overall Qvest.Cloud platform and can be managed and monitored centrally using the Qvest.Cloud Portal. It controls and monitors third-party applications via connectors which are part of an integration package. While Qvest Media will provide more and more pre-built automation connectors for well-known media applications over time, custom connectors can be added on a project basis.

Qvest.Cloud is an innovative one-stop cloud management solution revolutionising the use of multiple cloud applications in the media industry.

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Media Orchestration

Coordination of metadata and media flows cloud-based services

Integrating products and services into one system realising an end-to-end business value requires the orchestration of metadata and media flows. This needs to be done in a flexible and agile way. The Media Orchestration module of Qvest. Cloud is a cloud-native workflow orchestration tool for media flows that is specifically built to enable this flexibility. In doing so, it provides the "wiring" between the different components of the cloud ecosystem.

Qvest.Cloud Media Orchestration contains a graphical tool for the workflow design which is simple enough to be used by medium technical staff, but powerful enough to allow for very complex and multifaceted business logic. The cloud-native execution engine is built using an application stack with cloud design principles such as scaling up and down via Qvest.Cloud Automation. As a consequence, no components limit scaling or use resources if there is no load. The workflow engine can be integrated into third-party applications by using its RESTful API, which is accessed via the Qvest.Cloud API Management.

In order to provide visibility of what happens in the connected systems, workflow orchestration is connected to Qvest.Cloud Monitoring. As the design principle of Qvest.Cloud Monitoring relies on tracking rather than on active control, the monitoring not only shows events in the workflow, but also correlates them to events in third-party services and processes.

Qvest.Cloud Media Orchestration supports agile adoption of new workflows via collaborative workflow authoring, extensive built-in functionalities for simulation and testing as well as version-management and deployment into system environments via the Qvest.Cloud continuous delivery engine. Qvest.Cloud Media Orchestration controls and monitors third-party applications via connectors which are part of an integration package. While Qvest Media will provide more and more pre-built workflow connectors for well-known media applications over time, custom connectors can be added on a project basis.

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Q. User Management

Identity and access management
with single sign on and flexible authentication

Already in a closed, internal environment with a well-established "trust boundary", managing an Active Directory server, an LDAP server or other alternatives is no easy task. For identity and access management (IAM) in the cloud, the challenges are magnified many times over. Cloud delivery models require seamless integration between cloud services and an organisation's IAM practices, processes and procedures – in a scalable, effective and efficient manner. The User Management module of Qvest.Cloud provides central IAM for all integrated applications and services.

Operators and system engineers need to have one single login – not only to the Qvest.Cloud platform, but also to all connected applications. This is important for convenience as well as security management purposes. Only central identity management can enforce company policies and ensure that account and access rights can be revoked when required.

Whereas for an on-premise installation, central user management via Active Directory (AD) is the de-facto standard, cloud applications have different identity and access management standards, such as OpenID Connect, OAuth 2.0 and SAML 2.0.

Qvest.Cloud User Management features:
» scalable, customisable and fine-grained identity and access management
» single sign-on (SSO)
» flexible authentication flows
» identity brokering to on-premise and off-premise services
» possibility to hook up to LDAP & AD services

Qvest.Cloud User Management offers security features with two-factor authentication, password policies, token management, password guess brute-force detection and also implements GDPR services. Qvest.Cloud User Management interfaces to third-party applications via connectors, which are part of an integration package. While Qvest Media will provide more and more pre-built IAM connectors for well-known media applications over time, custom connectors can be added on a project basis.

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