The cloud exchange is a branch of the cloud ecosystem. Exchanges differ from vendor-driven cloud marketplaces by bringing in a new efficiency to the whole cloud ecosystem by using vendor-neutral, widely accepted standards for the benefit of service providers, brokers, and end users. A cloud exchange allows any broker or service provider to become a member, as long as they meet the exchange’s admission criteria. The idea behind an exchange is that it prevents lock-in because it offers real-time trading of bandwidth, enabled by a bilateral contract (AES), with all the suppliers or suppliers’ representatives. 

http://searchtelecom.techtarget.com/op/th-the-cloud-exchange-be-the-next-big-ecosystem-player
The mission at the Department of Medical Assistance Services (DMAS) is to provide a system of high quality and cost-effective health care services to qualifying Virginians and their families. DMAS is the commonwealth's consolidated information system that supports Medicaid operations. This direct connection to be moved over to the Xerox-to-CESC MPLS connection.

MPLS Backbone
- Direct Connect
- Multi-protocol Label Switching

MPLS Backbone – Direct Connect
- Virginia Medicaid Management Information System (MMIS)
- Being replaced by MES.

Existing ITF Connection
- Site to Site (S2S) VPN

CESC Hosted
- EDI
- FMS / Oracle EBS
- Managed File Transfer (MFT)
- EPS
- OC3 Backbone

EMI Hosted SDA Stack
- Underlying components include an Enterprise Service Bus (ESB), Universal Description, Discovery & Integration (UDDI), Business Process Execution Language (BPEL), Business Process Orchestration Language (BPL), and Business Process Manager. Enables agencies to develop modular, composition functions, separate them, yet connected to an application via well-defined interfaces to provide agility.

Managed File Transfer
- Direct Connect
- IKE

OC3 Backbone
- Provides a high-speed connection for data transfer.

MPLS Backbone
- Direct Connect
- Multiprotocol Label Switching
- Used for high-performance telecom networks that direct data from one network node to the next based on short path labels rather than long network addresses, avoiding complex lookup in a routing table. (http://www.itrf.net/rips-38/presentations/mpl-arch/Hub.html)

This direct connection to be moved over to the Xerox-to-CESC MPLS connection.
The mission at the Department of Medical Assistance Services (DMAS) is to provide a system of high quality and cost-effective service via well-swappable functions. Underlying components include an Enterprise Service Bus (ESB), Business Process Execution Language (BPEL), Business Activity Monitoring (BAM), and Universal Description Discovery and Integration (UDDI) to enable agencies to develop modular, composition functions, separate them, yet connected to an application via well-defined interfaces to provide agility.

VITA is the commonwealth's consolidated information technology (IT) organization. VITA supports state agencies by providing integrated, collaborative, and scalable information services and solutions, to break down barriers to innovation, reduce cost, and improve efficiency.

This diagram illustrates the current solution being used to support FMS/Oracle EBS. The existing ITF connection site to site (S2S) VPN will be moved over to the CESC Hosted CLEC.

The VA-MMIS Xerox connection is being replaced by MES.

The cloud exchange is a branch of the cloud ecosystem. Exchange differ from vendor-driven cloud marketplaces by bringing in a new efficiency to the whole cloud ecosystem by using vendor-neutral, widely accepted standards for the benefit of service providers, brokers, and end-users. A cloud exchange allows any broker or service provider to become a member, as long as they meet the exchange’s admission criteria. The idea behind an exchange is that it prevents lock-in because it enables real-time trading of bandwidth, enabled by a bilateral contract with all the suppliers or suppliers’ representatives.


**Purpose**: To diagram the current solution thinking as it relates to the DMAS MES.