Leica Geosystems
TruView Global Deployment Options

1 Introduction

The TruView Global ProjectVault point cloud project data server is based on very modern web application environment architecture. The total system is very sophisticated and designed to be deployable with minimal resources but it also scales to extreme capacity in a transparent manner if needed.

The Leica Geosystems HDS software group has taken the extra measures of building deployment packages to minimize the complexity of deploying this system in your chosen network environment. On the back-end the system will deploy both Linux and Windows based servers, but this is almost totally transparent to the deployment personnel.

Leica is providing several options at this initial launch of the product and will be making even more options available in the near future.

2 Deployment Options

There are three basic options from which you may choose.

1. Internal Network Deployment (w/Internet option)
2. Cloud Based Self Deployment
3. Cloud Based Pre-configured Deployment:

2.1 Internal Network Deployment

For an internal deployment where the TruView Global ProjectVault will be installed on internal hardware, these are the considerations.

Installation Method: IT personnel will deploy a pre-packaged VM as a Type 1 or Type 2 Hypervisor image to your internal hardware using one of the provided formats:

- Type 1
    - VMware vSphere
    - HyperV
- Type 2
    - VMware Workstation 9, 10 or 11

When using the Internal Network Deployment companies can still support public internet access to the data by tunneling port 9000 for TruView connection and access.

2.2 Cloud Based Self Deployment

This deployment method would simply entail contracting for VM space at any cloud/ISP provider and deploying the appropriate deployed VM image.

Installation Method: Your personnel will deploy the VM images in a manner similar to the Internal Network Deployment but will first need to procure and configure appropriate virtual machines to run the deployments.

This can be a complex process and our system requires both Linux and Windows based systems to be deployed in parallel. There is nothing stopping you from deploying in this manner but Leica discourages this unless you are extremely familiar with such environments and have specific needs not met by the other deployment methods.

2.3 Cloud Based Pre-Configured Deployment

For a cloud-based deployment, this is the simplest method. Leica Geosystems has provided pre-configured deployments at several cloud based vendors.

Installation Method: Procure appropriate virtual machines as detailed by Leica and deploy/clone the pre-configured image(s)

You simply need to contract with these providers to launch one of these pre-configured VM environments which are cloned to your account and then you deploy your license to this machine to have a system up and running in minutes.

Current support includes

1. Amazon AWS Amazon Machine Image (AMI)

3 Image Updates

Because of the VM deployment methods employed for TruView Global Project Vault, Leica Geosystems has built in a simplified update mechanism. The administrator of the ProjectVault can find and deploy updates in only moments.

The system has the built-in intelligence to know where, out in the cloud, to look for updates. The administrator can ask TruView Global to look for and retrieve any available updates. Once they are retrieved the administrator can decide to install them and they are deployed automatically, in real-time, without disruption to the running system and only takes a few minutes at most.

Leica will be providing enhancement updates at a very rapid pace for this system and users will be able to benefit from these updates with little to no overhead.

4 Future Options

As you make deployment options for your organization, we understand that knowing something about the roadmap future for TruView Global can help you in making decisions. We provide here a list of insights and considerations for your review.

1. Regardless of what deployment option you make today, your TruView data is safe. The TruView data can move from one type of deployment to another with no consideration at all.
2. In the near future (Q4 2015) Leica will add an additional cloud-based deployment option. We will support the "Appliance" model as seen in Amazon AWS Market Place and elsewhere. This is an even more automated deployment cloning model.
3. Leica will also soon offer a "Fully Hosted" option. In this case, Leica will provide private space for our customers to deploy their own TruView data on a cloud-based server/service owned and operated by Leica. In this model you will have a single pay-for-use cost associated with TruView and Leica will be responsible and active in supporting all of the backend technology.