# APPENDIX A: INFRASTRUCTURE

The fundamental purpose of a data warehouse infrastructure is to support the overlying architectural components. In other words, the infrastructure includes all the foundational elements that enable the data warehouse architecture to be implemented. For example, elements such as server hardware, operating system, network software, LAN and WAN, people, procedures and training are all part of infrastructure.

In a broad classification the elements of a data warehouse infrastructure can be divided into two major categories: operational infrastructure and physical infrastructure.

Operational infrastructure consists of people, procedures, training and management software

Physical infrastructure has components such as Hardware, Operating Systems, and DBMS etc.

The following section will list in detail the infrastructure used for each of architectural components in our project.

## Operational Infrastructure:

### People:

Project Team and Internal Information Technology team of Brazos University

### Management Software:

Microsoft Project to schedule, monitor and administer data transformation tasks.

### Training

Scheduled trainings between Project Team, Brazos University IT Team and its Executive Management

## Physical Infrastructure

### For Data Acquisition and Staging Tools:

**Hardware:** Brazos University Operational Databases

**Software:** Microsoft Excel, Microsoft Access

### For Data Storage:

**Server:** SQL Server 2012 Enterprise Edition

**Location (Network)**: (INFODATA.TAMU.EDU) **Server type:** Database Engine

### For Information Delivery through OLAP:

**Hardware**: SQL Server 2012 Analytical Services Server at **INFODATA.TAMU.EDU**

**Software:**

1. **SQL Server Data Tools -** Microsoft Visual Studio 2010 Shell (Business Intelligence).
2. Microsoft Excel and PowerPivot