

## Executive Summary

The Georgia Institute of Technology (GA Tech) has contracted Microsoft Consulting Services (MCS) to assist in an evaluation of the current IT infrastructure and provide recommendations that will aid in the design, planning, and implementation of a Microsoft Windows 2000 Active Directory infrastructure for the GA Tech campus. There is currently only a pilot implementation of Active Directory (AD) consisting of three core servers and a few servers representative of some of the departments that AD will consist of in its production implemented state. There are a total of twelve domain controllers in the AD environment now, of which three are the core forest servers, four that are in production use by the GTRC and EDI departments, and five others that exist for testing purposes.

The primary goal of the Active Directory implementation at GA Tech is to not only provide an AD domain for the Administration side of IT, but also a scalable framework design so that the other departments and groups can “plug in” to an existing forest, or create self-sustaining domains that would be children to the forest root of AD.GATECH.EDU. The core infrastructure consists of an “empty root” domain with the accounts domain configured as a child domain to the root domain. This base infrastructure will support the Kerberos authentication methods already in place at GA Tech, known as PRISM, and support the necessary NT and Windows 2000 based services in place now and planned for the future.

In addition, the Active Directory project must provide a scalable schema for the integration of Exchange 2000 via either Exchange 5.5 servers with Active Directory Connectors, Exchange 5.5 servers upgraded to Exchange 2000, or newly installed Exchange 2000 servers. There is an upgrade to the existing messaging infrastructure to Spectrum in process, with the migration of users to take place in the summer of 2002.

For the project to be a success there needs to be a cooperative effort from all effected departments, as well as a leading expertise in the design of the framework for the Active Directory forest. This will require a well documented outline of events that need to occur in the project timeline, policies and procedures for implementing concepts and pieces of the framework, and detailed explanations of the benefits of implementing directory services for the GA Tech infrastructure. This will be provided by the Office of IT consisting of agreed upon information developed in conjunction with the Active Directory Working Group and management of departments involved.

Also involved in this implementation is the need for the centralization of LDAP. An Open LDAP server is already in use at GA Tech which will provide information to the Active Directory server.

This document will serve as a living document of the ongoing implementation of Active Directory. This is coupled with the recommendations from MCS, along with the testing results and proposed recommendations from the Windows Support Team.