Working Title: Key Management Scalability

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1 Introduction

This document is the work proposal for one of the projects for Large Installation Administration (LIA), LIA is one of the courses in the study *System and Network Engineering* at the Universiteit van Amsterdam.

In this project we will be looking at key management and the possibilities of centralization. Furthermore we will also be looking at the scaling possibilities of key management.

This work proposal first gives the purpose, scope and goal of this project. After that the deliverables will be explained and the time plan for this project will be given.

2 Purpose, Scope and Goal

Encryption is a hot topic at the moment, specially the encryption of different components in an enterprise infrastructure.
The problem with the encryption of these different components is that the management of the different encryption keys are often overlooked. This gives the problem that the loss of these keys can make systems unusable or compromised.
There are different organizations that are trying to make standards for key management of different components in an infrastructure.

2.1 Purpose

The purpose of this project is to look at centralization and the various proposed standards in key management.
We will be looking at key management of encryption keys of different storage components in a network infrastructure.

The research will be divided in the following sections (some of the sections will be sections in the report):

1. What is key management?

2. Problems and solutions for key management centralization

3. Explain various key management standards and implementations

4. Scalability options for key management of storage components

2.2 Scope

The scope of this project is limited to researching centralization and scalability surrounding key management, also looking at available standards and implementations. We will therefor not be looking at the encryption itself.

2.3 Goal

The project goal for LIA is to get a more in-depth look at key management in large organizations.

3 Project Deliverables

There are 4 project deliverables:

1. Work Proposal (this document)
2. Concept Report
3. Presentation
4. Final Report

4 Time Plan

We have 4 weeks for this project:

Week 1 Define project and write work proposal

Week 2 Research

Week 3 Further research and writing concept report

Week 4 Finalize report and give presentation