

TIS; a services integration system

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40 Schools

30,000 students and staff

27,500 workstations

1 budget crunch

Kent School District



Where We Were

180 servers

200 virtual servers

Lots of spreadsheets and tribal knowledge

Project Aim

Provide a unified, easy to use system which records service dependencies

- Must be free, or low cost

- Must authenticate against Active Directory

- Must run on Windows Server with already licensed or free software dependencies

- Must allow users to search bidirectionally on devices and services

The Money Problem

Enterprise-specific field

Limited options for free/small software packages

Commercial solutions are costly, use “full-suite” pricing models

In-House Software

Relatively cheap

Built to our needs

Freely expandable

TIO Inventory System

AKA TIS

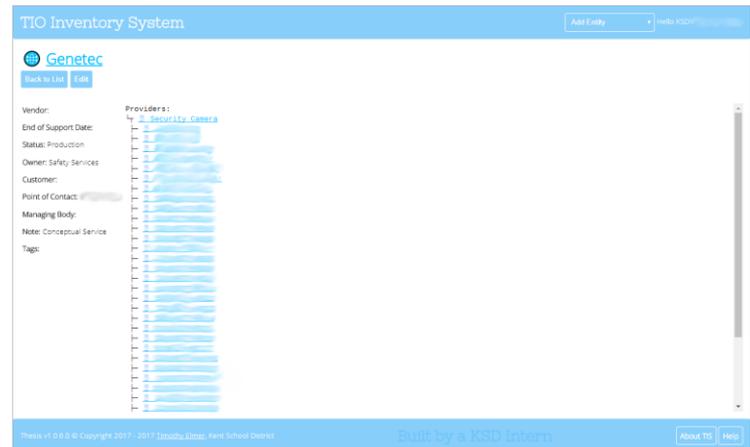
TIO Inventory System

Records inventory data
concerning servers, services

Records dependency
relationships

Searchable

Controlled access



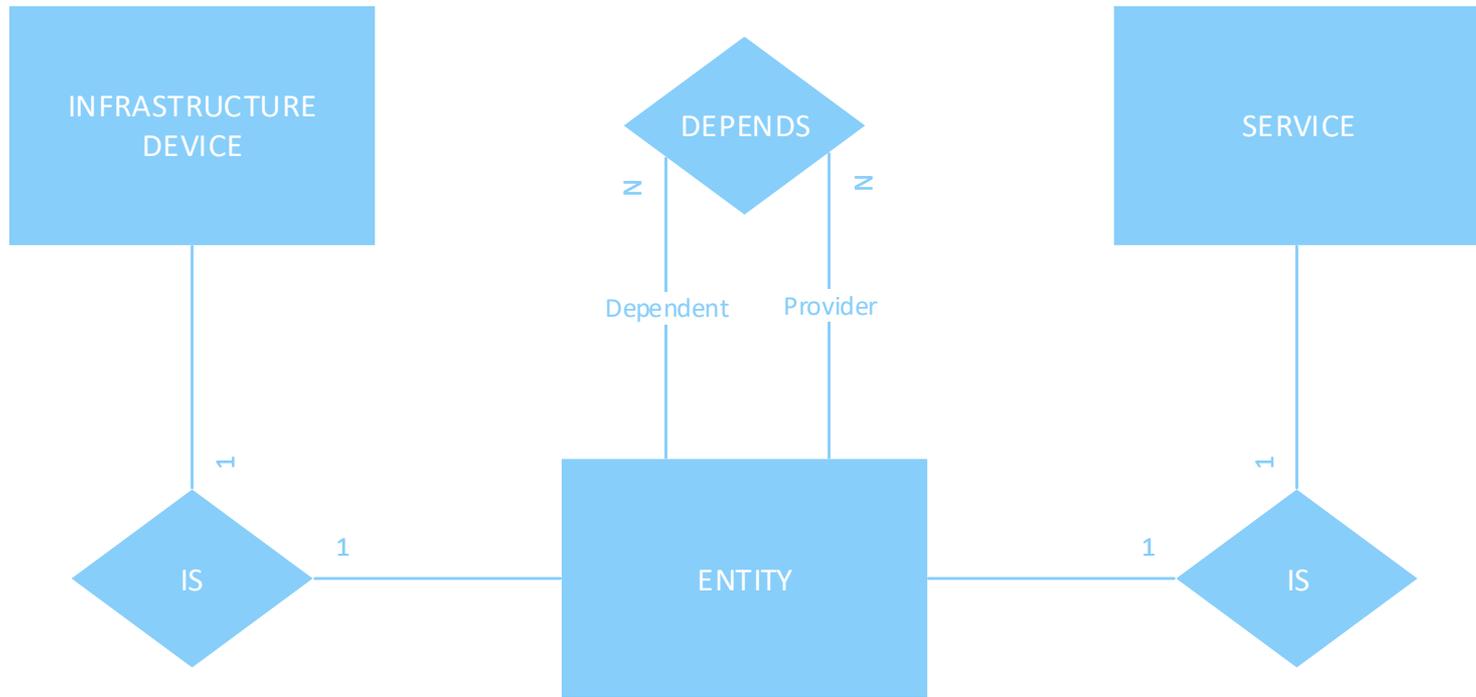
Nuts and Bolts

Written in ASP.NET with C# code-behind

T-SQL/ASP.NET binding database interaction

Authentication via IIS and access control via MSSQL user permission

Model



Challenges / Knowledge Gained

Unfamiliarity

ASP.NET

T-SQL

IIS

Difficulties with permissions

Onward and Upward

TIS 2.0

- More inclusive schema

- Internal authorization

- Cleaner codebase

- Better search implementation