

A CMDBuild project implementation from scratch

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About Hedmark IKT

- Established in 2005
- Owned by 7 municipalities in the south-east of Norway spread across 280 physical locations
- We host and provide support for all IT systems and infrastructure
- Combined population of about 100 000 people
- About 22 000 people use our solutions
- 41 employees spread across 2 locations

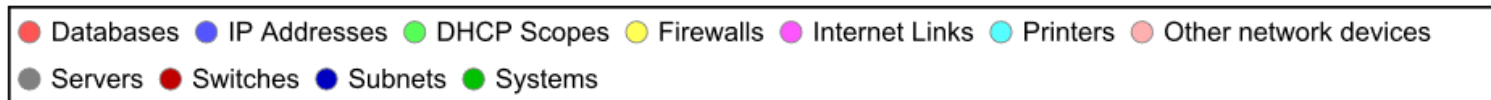
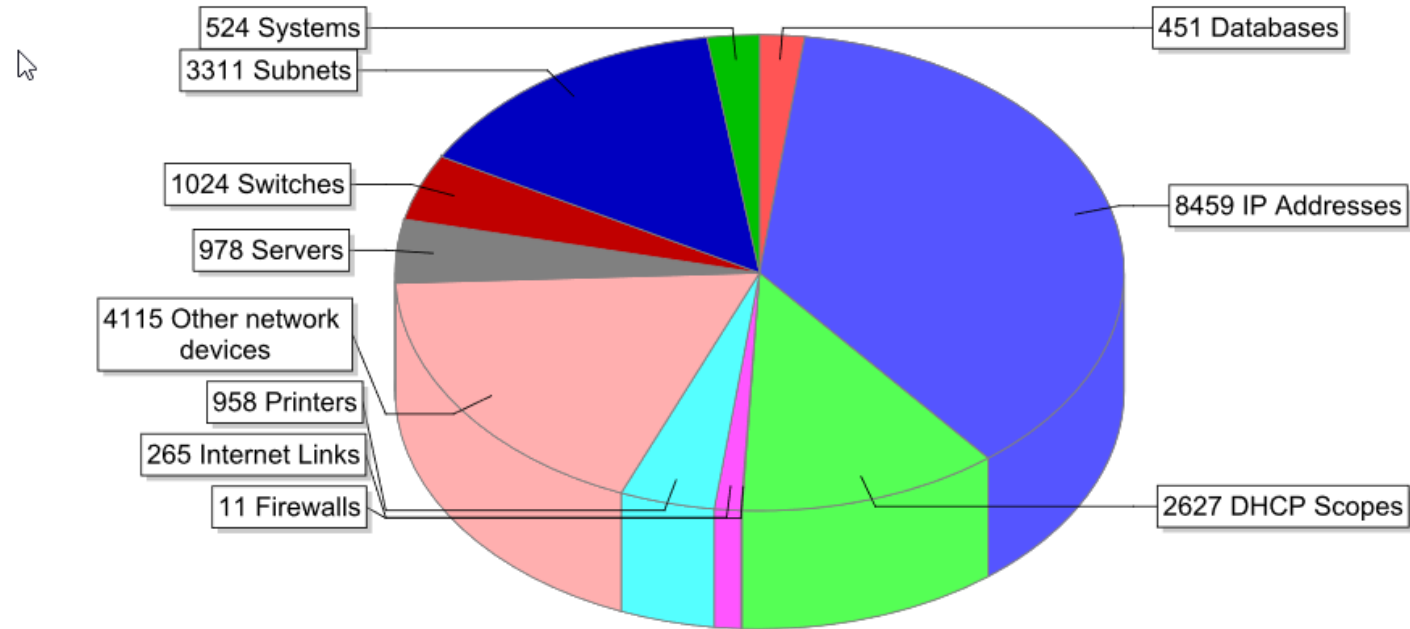


Why we chose CMDBuild

- In 2016 we used Excel spreadsheets to keep track of our IP addresses and subnets
- ER-diagram
- Code our own webapplication or use CMDBuild
 - CMDBuild has built in support for many-to-many relationships
 - Expandable and scalable
- Started with just IP addresses, Subnets and Hosts
- AD Integration



Assets



DHCP Configuration

```
# Klukstuen - VoIP
## VLAN: 803
## Network: 10.40.66.0
subnet 10.40.66.0 netmask 255.255.254.0 {
    pool {
        failover peer "failover-partner";
        range 10.40.66.50 10.40.67.240;
    }
    option VoIP-Server "Nortel-i2004-A,10.7.6.50:4100,1,5.";
    option routers 10.40.66.1;
    option domain-name-servers 10.1.50.5, 10.1.50.4;
    option domain-name "katalog.intern";
    option broadcast-address 10.40.67.255;
    default-lease-time 14000;
    max-lease-time 28800;
}

zone 40.10.in-addr.arpa. {
    primary 10.1.4.12;
    key y_dhcp_server;
}

## Reservation for ha-prestrudsenter-letg-d2-romj142-dn2048-01
host ha-prestrudsenter-letg-d2-romj142-dn2048-01 {
    hardware ethernet 68:4f:64:74:58:0d;
    fixed-address 10.32.60.103;
}#
```



Considerations on CMDBuild from scratch

- Start small, but plan for expansion
- Learn how the database and API works
- Reports, views, validation rules, custom pages, dashboards, menus, context menus, import/export templates, form triggers and widgets



Considerations on CMDBuild from scratch

```
BEGIN
```

```
    NEW."Description" = NEW."Hostname";
```

```
    NEW."Code" = NEW."Hostname";
```

```
END;
```



Future use of CMDBuild

- Nagios Core
 - Hosts/hostgroups
 - Services
 - Commands to check for availability/status
 - Dependencies
- CMDBuild API
- CMDBuild Docker Images



