CNC Network Refresh

Strategic Wireless Network Updates

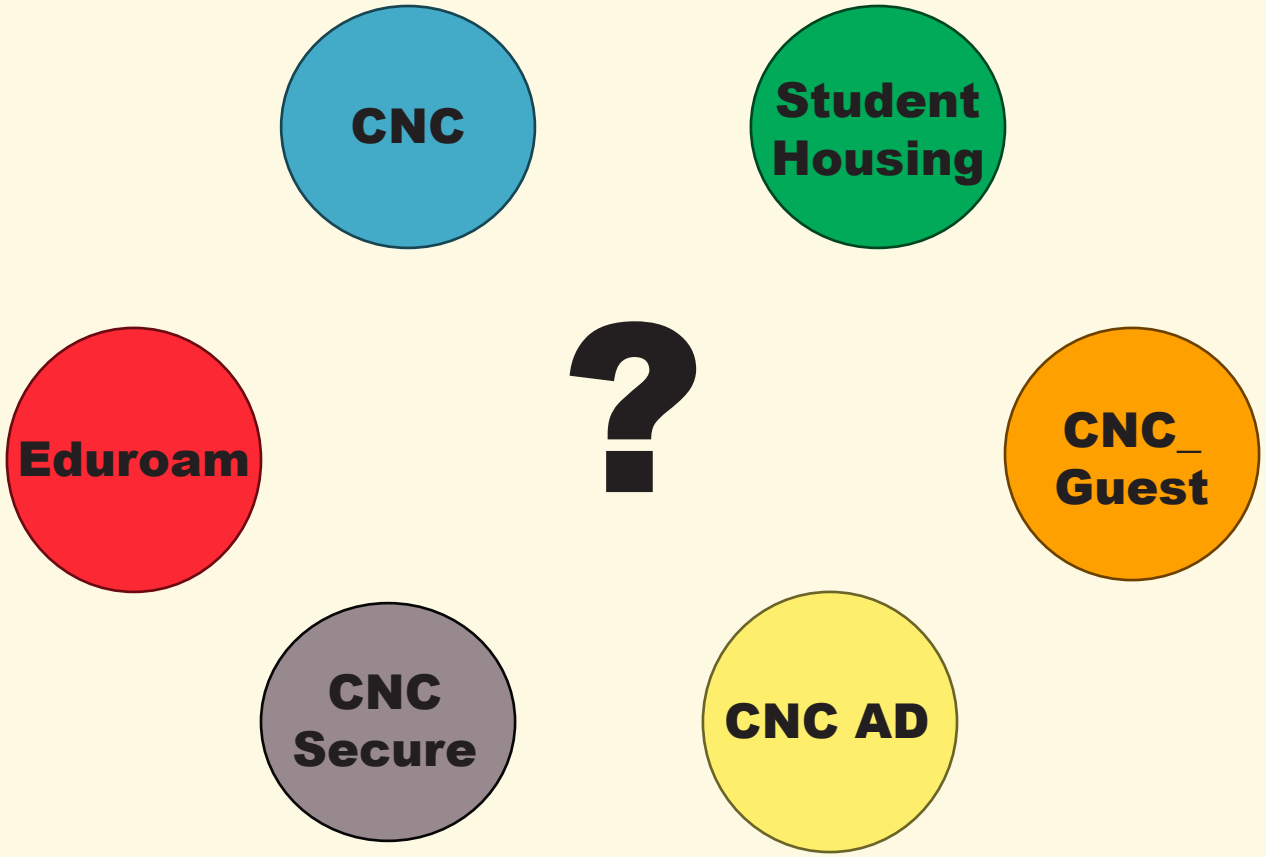
Agenda

1. Introduction
2. Changes Being Made
3. Benefits of the New Networks
4. Implementation Process
5. Questions

1 Introduction

The wireless upgrades will change the way everyone accesses wireless services at CNC across all campuses and buildings. Our aim in doing this is to improve these services for students and employees.

1.1 Our Current State

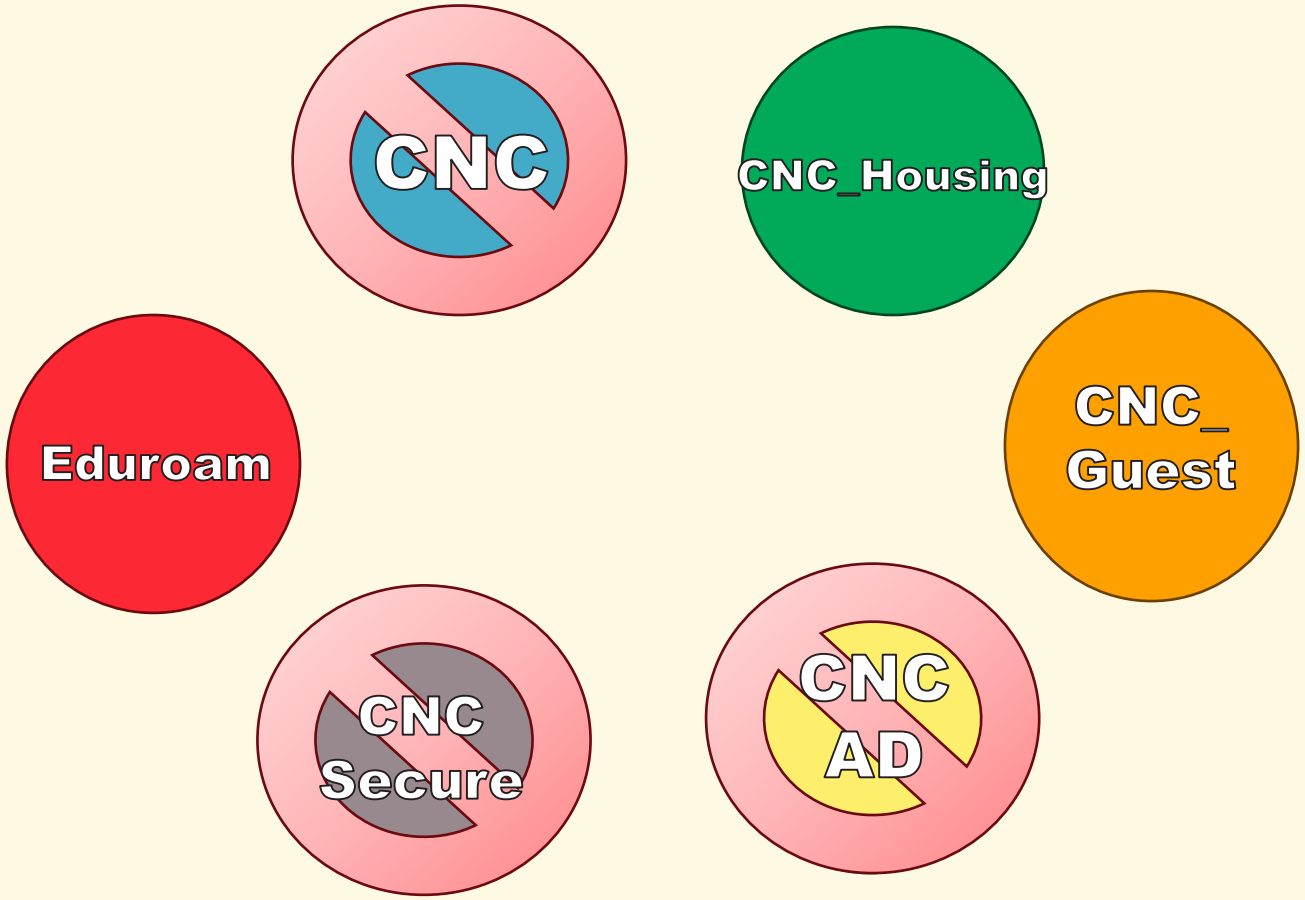


Currently, CNC's network consists of several wireless networks. This is confusing for users – which one to choose?

The proposed design will offer a simplified list of networks which offer improved services to users across all CNC campuses.

Changes Being Made

2 Our Future State



Several of the legacy wireless networks will be going away.

Wireless access will be consolidated into three networks:

CNC_Guest
CNC_Housing
Eduroam

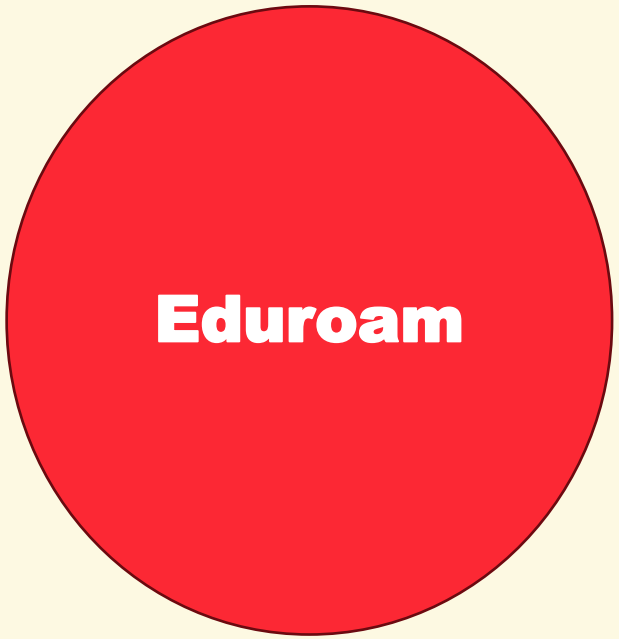
Benefits of the New Networks

3 CNC_Guest

CNC_Guest will be accessed in a new, simpler way. Guests will be able to access internet services at all CNC campuses, and in more locations.

For increased security, this network will only be available during college business hours, which are 6:00 am to 11:00 pm, every day.

3.1 Eduroam



Eduroam will be the primary way to access wireless services. Students, staff, and faculty will be authenticated using their CNC credentials.

Students, staff, and faculty will be able to access the internet at federated campuses and partner sites worldwide without needing to reconfigure their devices. In Prince George, Eduroam is available at UNBC, University Hospital of Northern British Columbia, and the Prince George airport.

Likewise, federated guests will be able to access the internet on CNC campuses.

3.2 Eduroam

Eduroam

On June 15th, Eduroam went live at CNC for use on mobile devices such as phones and tablets.

Later this summer, staff and faculty using Eduroam will also have access to internal CNC resources on their college provided laptops. These resources will include printing, file sharing, and local server and applications resources.

3.3 CNC_Housing

CNC_Housing will be updated to provide internet services for student devices such as gaming consoles, smart TVs, and other devices which are not supported by Eduroam, which will be available for authorised devices.

Students will be assigned individual pre-shared keys that they can use to provide internet access for their personal guests. Currently, wireless services in the student housing facilities attract unsanctioned users, which is a risk to student safety. This unsanctioned access will be disabled.

Additionally, IT will be able to apply internet access policies specifically for student housing, providing additional, increased security.

Implementation Process

4 Timeline

May

Final configuration and testing of new wireless services.

Begin communications to CNC community

June

Early adopter groups to pilot new wireless services.

Present to Stakeholders and review solutions.

Begin to cut over to new networks

July

Continue to communicate changes to CNC community

Continue to monitor performance of new networks

Aug

Introduce Eduroam access for CNC provided devices

Sunset old wireless services

Sept

Increased communications and awareness campaigns at Fall 2024 Student Orientation

5 Questions?

3 THINGS YOU SHOULD NEVER SHARE
#1
TOOTHBRUSHES
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Thank you

Brian Burke and Steven Dickson

CNC IT Services