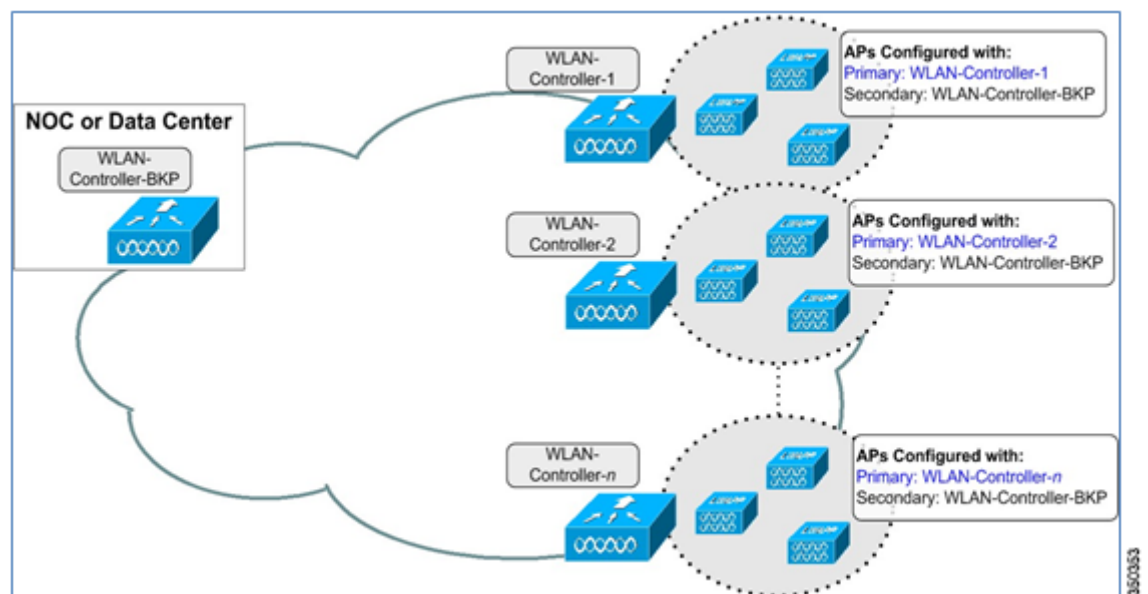




Introduction

The N+1 HA feature set within the Cisco Unified Wireless Network (CUWN) framework allows a single WLC to be used as a backup WLC for N primary controllers. (See [Figure 1-1](#).) Earlier than release 7.4, the N+1 HA model requires a permanent AP count license on the backup controller. With Release 7.4 and later, an HA-SKU secondary controller can be used as the backup controller for multiple primary controllers. The overall goal for the addition of N+1 HA with HA-SKU is to reduce the total cost of ownership (TCO) for geographically separate HA deployments across the WAN link.

Figure 1-1 **N+1 HA Topology**



Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- 5500, 7500, and 8500 Series WLCs; Wireless Services Module 2 (WiSM-2) WLCs
- 1130, 1240, 1250, 1040, 1140, 1260, 3500, and 3600 Series APs; 1520 or 1550 Series Mesh APs

The information in this document was created from the devices in a specific lab environment. All devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.