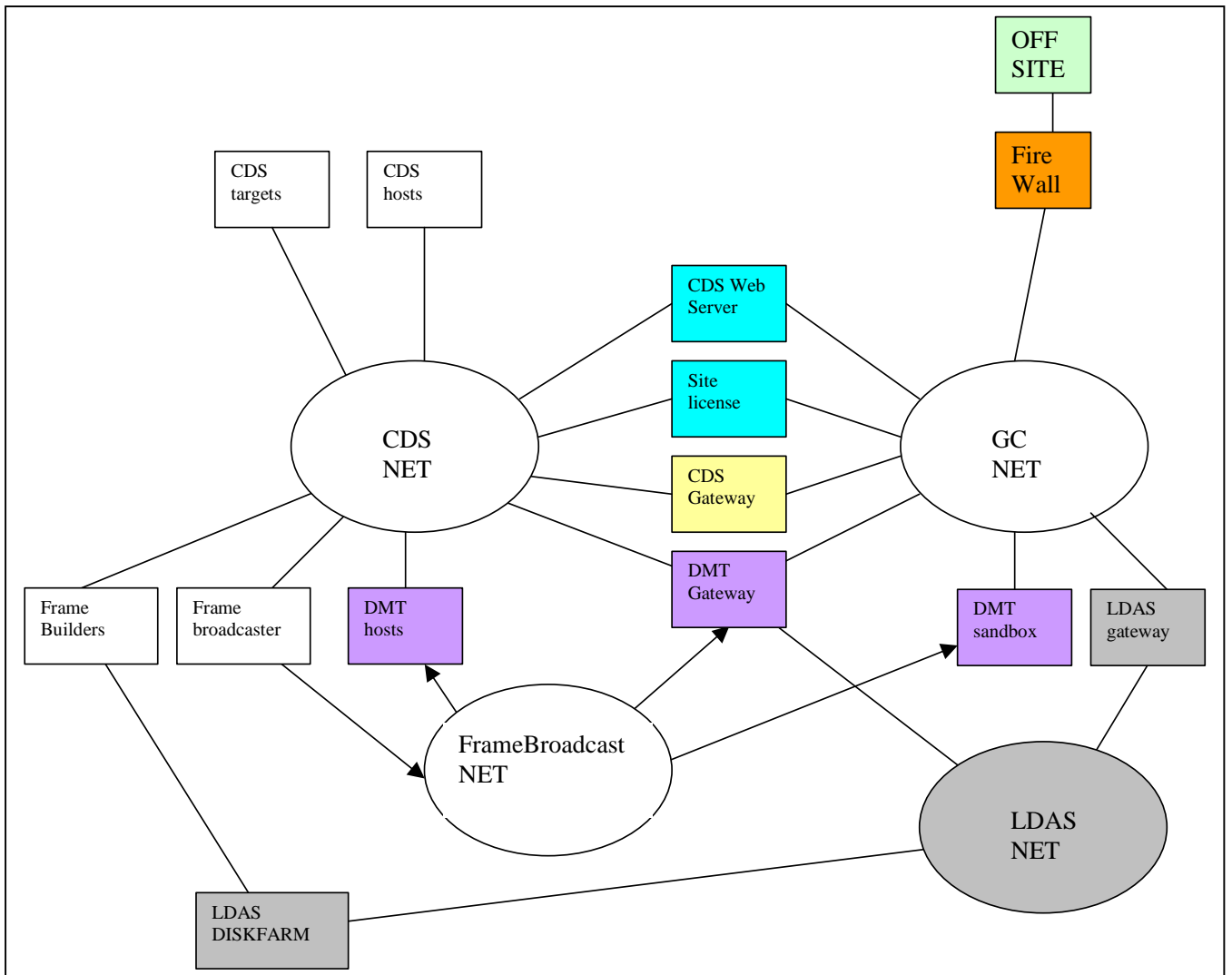


# LIGO Observatory CDS Security

## 1.0 Overview

Figure 1. Observatory networks and hosts



- The CDS Network is a private internal network with no direct access from offsite
- Access to General computing network is through CDS-GC gateways
- Gateways are:
  - CDS Web server
    - Supports no user accounts
    - Serves web pages and ELOG to CDS and GC networks
    - Serves all hanford1 files as read only via web server
  - Site license server
    - Supports no user accounts
    - Serves applications and licenses to CDS and GC networks
  - CDS gateway
    - Supports limited set of unique CDS login accounts (on as needed basis)
    - Accounts have a finite life time and passwords are changed regularly (option to use one-time-use passwords via smart card of software equivalent)
    - Allows privileged users write access to CDS services, and the ability to “hop” into the CDS network
  - DMT gateway
    - Supports limited set of unique GDS login accounts (on as needed basis)
    - Accounts have a finite life time and passwords are changed regularly (option to use one-time-use passwords via smart card of software equivalent)
    - Allows privileged users write access to CDS services, and the ability to “hop” into the CDS network
    - Does not have access to CDS server. (CDS files)
    - Has limited write capability to frame builders for trend frame file storage
    - Serves the GDS web pages.
- FrameBroadcaster network is a gigabit network connecting the frame broadcaster server with the DMT clients.
  - This network is used only to transmit frame data, and will not support any other network services.