

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF HUMAN SERVICES

INFORMATION TECHNOLOGY STANDARD

Name Of Standard: Topological Connectivity	Number: STD-ENSS007
Domain: Network	Category: Wide, Metropolitan & LAN's / DHS
Date Issued: 05/09/2001	Issued By Direction Of: 
Date Revised: 03/04/2016	Clifton Van Scyoc, Chief Technology Officer

Abstract:

The Department of Public Welfare (DHS) network consists of local area networks (LANs), metropolitan area networks (MANs), wide area networks (WANs), protocols for data transfer, interface cards, servers, and more. This document provides the details of the technology employed in the DHS network.

General:

The purpose of this document is to provide technical details of the topological connectivity of the DHS network, which serve as standards for that network.

DHS no longer supports the use of any proprietary equipment and network protocols.

Standard:

LAN Connectivity

At a macro level, DHS's network is an extended LAN using TCP/IP for host-to-host connectivity. The LAN protocol used by the network is the IEEE 802.3 Ethernet standard. Each of the DHS's campus facilities (state hospitals and mental retardation centers), state office complexes, and county assistance offices are networked using 100BaseT or higher network interface cards (NIC's), routers, and switches. Fiber transport is used where required by distance or workload capacity.

MAN Connectivity

DHS's MAN connectivity is delivered by a pair of Gigabit Ethernet circuits to COPANET. Verizon manages the COPANET ring for the Commonwealth of Pennsylvania Office of Administration (OA).

WAN Connectivity

The WAN sites connect to Verizon's Private Internet Protocol (PIP) cloud, a Multiprotocol Label Switching network (MPLS), and communicate back to DHS over Ethernet Virtual Circuits (EVC's), that connect PIP to COPANET. The handoff of the WAN traffic to DHS is via the COPA/DHS WAN Virtual Routing and Forwarding (VRF) table delivered over COPANET.

Exemptions from this Standard:

There will be no exemptions to this standard.

Refresh Schedule:

All standards and referenced documentation identified in this standard will be subject to review and possible revision annually or upon request by the DHS Information Technology Standards Team.

Standard Revision Log:

Change Date	Version	Change Description	Author and Organization
05/09/2001	1.0	Initial Creation	Unknown
03/27/2002	1.1	Edited style and added sections to doc.	Beverly Shultz
04/26/2004	1.2	Updated	Tom Zarb
02/10/2005	1.2	Reviewed	Doug Rutter, DTE
11/13/2006	1.2	Reviewed	Doug Rutter, DTE
12/10/2007	1.3	Reviewed and edited style	Doug Rutter, DTE
04/28/2010	1.4	Reviewed, inserted proprietary statement	Matt Messinger
02/14/2011	1.5	Revised for Network transition	Matt Messinger
11/18/2013	1.5	Reviewed – No Change Necessary	Matt Messinger
03/31/2015	1.6	Reviewed – Changed DPW to DHS	Bob Gordon, BIS-DTE
03/04/2016	1.7	Updated the CTO's name	Aamir Qureshi, BIS-DTE