# COMMONWEALTH OF PENNSYLVANIA

# HEALTH & HUMAN SERVICES DELIVERY CENTER

# INFORMATION TECHNOLOGY GUIDELINE

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| Name of Guideline: | Number: |
| **LAN Protocols and Wiring** | **GDL-ENSS001** |
| Domain: | Category: |
| **Network** | **Wide, Metropolitan & LAN’s / Protocols** |
| Date Issued: | Issued by: |
| **5/09/2001** |  John Tamosaitis, Network ManagerHealth & Human Services Delivery Center  |
| Date Revised: |
| **8/05/2020** |

**Abstract:**

A protocol is an agreed upon format for interaction at the computer as well as the human level. A protocol stack is a series of protocols arranged in layers, each layer performing a single, well-defined function, with clearly delineated interfaces, which permit functional replacement at a layer­by­layer level.

**General:**

The Health and Human Services Delivery Center (HHS DC) supports the Departments of Health (DOH), Human Services (DHS), Aging (PDA), Drug and Alcohol Programs (DDAP) and Military and Veterans Affairs (DMVA).

The purpose of this document is to inform the reader regarding the Local Area Network (LAN) protocols and wiring in place for the Health & Human Services Delivery Center (HHS DC) as determined by Health and Human Services Delivery Center (HHS DC) Technology Services Office (TSO).

**Guideline:**

**Protocol Standards and Wiring Guidelines**

HHS Technology Services Office (TSO) requires the use of a minimum of category (CAT) 5E wiring, with a recommendation for CAT 6, for short distance wiring. HHS TSO requires fiber optic cabling for longer distance connections, such as in multi-floor office complexes where fiber is used as riser cable, and campus facilities where the distance between buildings exceeds CAT 5E/6 specifications.

As an extended Ethernet LAN, the HHS DC network requires the use of the IEEE 802.3 protocol at the local site level. The network supports only Internet Protocol (IP) at the enterprise level.

**Refresh Schedule:**

All guidelines and referenced documentation identified in this standard will be subject to review and possible revision annually or upon request by the HHS Delivery Center Domain Leads.

**Guideline Revision Log:**

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| --- | --- | --- | --- |
| **Change Date** | **Version** | **Change Description** | **Author and Organization** |
| 05/09/2001 | 1.0 | Initial Creation | Unknown |
| 04/08/2002 | 1.1 | Edited for style | Beverly Shultz |
| 05/10/2004 | 1.1 | Reviewed – no change necessary  | Timothy Stouffer |
| 12/14/2004 | 1.2 | Updated | Timothy Stouffer |
| 07/13/2005 | 1.2 | Reviewed – no change necessary | Timothy Stouffer |
| 12/05/2007 | 1.3 | Reviewed and re-formatted | Doug Rutter |
| 06/25/2010 | 1.3 | Reviewed | Doug Rutter |
| 02/22/2011 | 1.3 | Reviewed content – No changes | Doug Rutter |
| 12/06/2013 | 1.4 | Update to reflect current requirements | Matthew Messinger |
| 04/01/2015 | 1.5 | Updated DPW to DHS | Bob Gordon, BIS-DTE |
| 03/08/2016 | 1.5 | Reviewed content – No changes | Aamir Qureshi, BIS-DTE |
| 04/03/2020 | 2.0 | Updated Org. Reviewed Content | Bob Gordon HHS TSO |
| 08/05/2020 | 2.1 | Removed Signature | P. Gillingham HHS TSO |