**COMMONWEALTH OF PENNSYLVANIA HEALTH & HUMAN SERVICES DELIVERY CENTER**

INFORMATION TECHNOLOGY STANDARD

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| --- | --- |
| Name of Standard: | Number: |
| **HHS Wireless Connectivity** | **STD-ENSS019** |
| Domain: | Category: |
| **Network** | **Wireless Connectivity** |
| Date Issued: | Issued by Direction Of: |
| **06/29/2001** |  |
| Date Revised: |  |
| **07/28/2020** | **Jon Arnold, Chief Technology Officer** **Health & Human Services Delivery Center**  |

# Abstract:

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).

Wireless connectivity has come to the forefront of communications technology. However, this technology brings new concerns regarding security and standards to the Health & Human Services Delivery Center (HHS DC).

# General:

The purpose of this document is to provide standards and guidelines for wireless connectivity in HHS DC.

# Standard:

Wireless networks at HHS DC must comply with the Governor’s Office of Administration/Office for Information Technology (OA/OIT) Information Technology Bulletin [ITB-NET001 “Wireless LAN Technology”](https://www.oa.pa.gov/Policies/Documents/itp_net001.pdf).

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| Evolution of the 802.11 Wireless LAN Standards |
| *Protocol* | *Year Introduced* | *Max Data Transfer Speed* | *Frequency* | *Channel Bandwidth* |
| 802.11a | 1999 | 54 Mbps | 5GHz | 20 MHz |
| 802.11b | 1999 | 11 Mbps | 2.4 GHz | 20 MHz |
| 802.11g | 2003 | 54 Mbps | 2.4 GHz | 20 MHz |
| 802.11n | 2009 | 65 to 600 Mbps | 2.4 or 5 GHz | 20 and 40 MHz |
| 802.11ac | 2012 | 78 Mbps to 3.2 Gbps | 5 GHz | 20, 40, 80, 160Mhz |

# 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 HHS Delivery Center Domain Leads.

# Standard Revision Log:

|  |  |  |  |
| --- | --- | --- | --- |
| **Change Date** | **Version** | **Change Description** | **Author and Organization** |
| 06/29/2001 | 1.0 | Initial Creation | DPW |
| 08/14/2002 | 1.1 | Edited for style. | Beverly Shultz |
| 06/07/2004 | 1.1 | Reviewed content – No changes | Doug Rutter, DTE |
| 02/14/0205 | 1.1 | Reviewed | Doug Rutter |
| 03/11/2009 | 2.0 | Revised | Doug Rutter |
| 09/24/2010 | 2.0 | Reviewed content – No changes | Doug Rutter |
| 02/18/2011 | 2.0 | Reviewed content – No changes | Doug Rutter |
| 11/12/2013 | 2.0 | Reviewed content – No changes | Matthew Messinger |
| 04/10/2015 | 2.1 | Updated DPW references to DHS | Bob Gordon, BIS-DTE |
| 03/04/2016 | 2.2 | Updated names and WLAN specs | Bob Gordon, BIS-DTE |
| 04/30/2020 | 2.3 | Organization Name Change and invalid link repair/removal | HHS TSO |
| 07/20/2020 | 2.3 | Reviewed content | Bob Gordon, HHS Network |
| 07/28/2020 | 2.3 | Signature removed |  M Koerber, HHS TSO |