

Cipher support on a Citrix MPX/SDX Intel Lewisburg SSL chip based appliance

The following table lists the support for different ciphers on SSL entities, such as virtual server, services, and internal services.

On an SDX appliance, if an SSL chip is assigned to a VPX instance, the cipher support of an MPX appliance applies. Otherwise, the cipher support of a VPX instance applies.

The following platforms use Intel Lewisburg chips:

- MPX 9100
- SDX 9100

Cipher Suite Name	Hex Code	Wireshark Cipher Suite Name	Builds Supported (frontend)	Builds Supported (backend)
TLS1-AES-256-CBC-SHA	0x0035	TLS_RSA_WITH_AES_256_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-AES-128-CBC-SHA	0x002f	TLS_RSA_WITH_AES_128_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-AES-256-SHA256	0x003d	TLS_RSA_WITH_AES_256_CBC_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-AES-128-SHA256	0x003c	TLS_RSA_WITH_AES_128_CBC_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-AES256-GCM-SHA384	0x009d	TLS_RSA_WITH_AES_256_GCM_SHA384	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-AES128-GCM-SHA256	0x009c	TLS_RSA_WITH_AES_128_GCM_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-RSA-AES256-SHA	0xc014	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-RSA-AES128-SHA	0xc013	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-RSA-AES-256-SHA384	0xc028	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-RSA-AES-128-SHA256	0xc027	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-RSA-AES256-GCM-SHA384	0xc030	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-RSA-AES128-GCM-SHA256	0xc02f	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-ECDSA-AES256-SHA	0xc00a	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-ECDSA-AES128-SHA	0xc009	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-ECDSA-AES256-SHA384	0xc024	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-ECDSA-AES128-SHA256	0xc023	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-ECDSA-AES256-GCM-SHA384	0xc02c	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-ECDHE-ECDSA-AES128-GCM-SHA256	0xc02b	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-DHE-RSA-AES-256-SHA256	0x006b	TLS_DHE_RSA_WITH_AES_256_CBC_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-DHE-RSA-AES-128-SHA256	0x0067	TLS_DHE_RSA_WITH_AES_128_CBC_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1

Cipher Suite Name	Hex Code	Wireshark Cipher Suite Name	Builds Supported (frontend)	Builds Supported (backend)
TLS1.2-DHE-RSA-AES256-GCM-SHA384	0x009f	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1.2-DHE-RSA-AES128-GCM-SHA256	0x009e	TLS_DHE_RSA_WITH_AES_128_GCM_SHA256	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-DHE-RSA-AES-256-CBC-SHA	0x0039	TLS_DHE_RSA_WITH_AES_256_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-DHE-RSA-AES-128-CBC-SHA	0x0033	TLS_DHE_RSA_WITH_AES_128_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-RSA-DES-CBC3-SHA	0xc012	TLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-ECDSA-DES-CBC3-SHA	0xc008	TLS_ECDHE_ECDSA_WITH_3DES_EDE_CBC_SHA		
SSL3-EDH-RSA-DES-CBC3-SHA	0x0016	TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-RSA-RC4-SHA	0xc011	TLS_ECDHE_RSA_WITH_RC4_128_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ECDHE-ECDSA-RC4-SHA	0xc007	TLS_ECDHE_ECDSA_WITH_RC4_128_SHA		
SSL3-DES-CBC3-SHA	0x000a	TLS_RSA_WITH_3DES_EDE_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-RC4-SHA	0x0005	TLS_RSA_WITH_RC4_128	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-RC4-MD5	0x0004	TLS_RSA_WITH_RC4_128_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-DES-CBC-SHA	0x0009	TLS_RSA_WITH_DES_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-EXP1024-RC4-SHA	0x0064	TLS_RSA_EXPORT1024_WITH_RC4_56_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-RC4-MD5	0x0003	TLS_RSA_EXPORT_WITH_RC4_40_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-DES-CBC-SHA	0x0008	TLS_RSA_EXPORT_WITH_DES40_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-RC2-CBC-MD5	0x0006	TLS_RSA_EXPORT_WITH_RC2_CBC_40_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EDH-RSA-DES-CBC-SHA	0x0015	TLS_DHE_RSA_WITH_DES_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-EDH-RSA-DES-CBC-SHA	0x0014	TLS_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-EXP1024-RC4-MD5	0x0060	TLS_RSA_EXPORT1024_WITH_RC4_56_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-EXP1024-RC2-CBC-MD5	0x0061	TLS_RSA_EXPORT1024_WITH_RC2_CBC_56_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-ADH-RC4-MD5	0x0018	TLS_DH_anon_WITH_RC4_128_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-ADH-DES-CBC3-SHA	0x001b	TLS_DH_anon_WITH_3DES_EDE_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1

Cipher Suite Name	Hex Code	Wireshark Cipher Suite Name	Builds Supported (frontend)	Builds Supported (backend)
SSL3-ADH-DES-CBC-SHA	0x001a	TLS_DH_anon_WITH_DES_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ADH-AES-128-CBC-SHA	0x0034	TLS_DH_anon_WITH_AES_128_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
TLS1-ADH-AES-256-CBC-SHA	0x003a	TLS_DH_anon_WITH_AES_256_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-ADH-RC4-MD5	0x0017	TLS_DH_anon_EXPORT_WITH_RC4_40_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-EXP-ADH-DES-CBC-SHA	0x0019	TLS_DH_anon_EXPORT_WITH_DES40_CBC_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-NULL-MD5	0x0001	TLS_RSA_WITH_NULL_MD5	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1
SSL3-NULL-SHA	0x0002	TLS_RSA_WITH_NULL_SHA	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1	10.5-67.x, 11.0-72.x, 11.1-56.x, 12.0-57.x, 12.1, 13.0, 13.1