# Citrix ADC Hardware Platforms

## Enabling high performance application delivery with hardware appliances and multi-tenant support

Citrix Application Delivery Controller (ADC) is the most comprehensive application delivery and load balancing solution for multi-cloud environments. Because its software and hardware form factors are all built on a single code base, Citrix ADC provides operational and feature consistency with comprehensive security for monolithic and microservices-based applications on-premises and in the cloud.

With pooled capacity licensing, you can easily move capacity across Citrix ADC form factors, clouds, and geographies to meet growing demand with no issues.

Citrix Application Delivery Management (ADM) helps you achieve holistic visibility, management, and troubleshooting for your entire Citrix ADC fleet through a single, easy to use console.

## Citrix ADC Hardware Platforms

### Citrix ADC MPX

Citrix ADC MPX is a physical appliance that provides powerful hardware-based application delivery and load balancing with options for high performance web application security and SSL offload support.

### Citrix ADC SDX

Citrix ADC SDX introduces fully isolated multi-tenant support on a single appliance for application workloads and groups. Deploying multiple virtual instances of Citrix ADC on one hardware appliance allows for the consolidation of multiple load balancers and application rollout.

### Citrix ADC FIPS Platforms

Citrix ADC offers specific physical and virtual platforms with FIPS 140-2 compliance to meet the strict compliance mandates of high security businesses and organizations.

Learn more about the specific Citrix ADC FIPS platforms by visiting the Citrix ADC FIPS Platforms data sheet.

| Citrix ADC Platform | MPX/SDX 26200-100G | MPX/SDX 26160-100G | MPX/SDX 26100-100G |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 256 GB | 256 GB | 256 GB |
| Ethernet Ports[1] | 8x 100GE QSFP28 | 8x 100GE QSFP28 | 8x 100GE QSFP28 |
| Transceivers Support | 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 26200-100G | Upgrade option to MPX/SDX 26200, 160-100G |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 200 | 160 | 100 |
| L7 HTTP Requests/sec | 5,500,000 | 4,200,000 | 3,200,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 125,000 | 110,000 | 66,000 |
| ECDHE Transactions/sec | 58,000 | 50,000 | 30,000 |
| SSL Throughput (Gbps) | 60 | 48 | 36 |
| Compression Throughput (Gbps) | 18 | 15 | 12 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 115, 115 | 70, 115 | 20, 115 |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 822W | 822W | 822W |
| Typical, Max Power Consumption | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr |
| Weight (lbs) | 48 | 48 | 48 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P1D | 2U1P1D | 2U1P1D |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 26200-50S | MPX/SDX 26160-50S | MPX/SDX 26100-50S |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 256 GB | 256 GB | 256 GB |
| Ethernet Ports[1] | 4x 50GE QSFP28; 16x 25GE SFP28 | | |
| Transceivers Support | 50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 25GE SFP28 Port: 25GE SFP28: SR; 10GE SFP+: SR, LR | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 26200-50S | Upgrade option to MPX/SDX 26200, 160-50S |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 200 | 160 | 100 |
| L7 HTTP Requests/sec | 6,500,000 | 5,500,000 | 4,500,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 522,000 | 358,000 | 283,000 |
| ECDHE Transactions/sec | 230,000 | 165,000 | 120,000 |
| SSL Throughput (Gbps) | 120 | 100 | 80 |
| Compression Throughput (Gbps) | 22 | 16 | 13 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 115, 115 | 70, 115 | 20, 115 |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | No | No | No |
| Max Power Supply | 1200W | 1200W | 1200W |
| Typical, Max Power Consumption | 628W, 764W | 628W, 764W | 628W, 764W |
| Weight (lbs) | 48 | 48 | 48 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P2A | 2U1P2A | 2U1P2A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX 26200T-100G | MPX 26160T-100G | MPX 26100T-100G |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 256 GB | 256 GB | 256 GB |
| Ethernet Ports[1] | 8x 100GE QSFP28 | 8x 100GE QSFP28 | 8x 100GE QSFP28 |
| Transceivers Support | 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX 26200T-100G | Upgrade option to MPX 26200T, 160T-100G |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 200 | 160 | 100 |
| L7 HTTP Requests/sec | 5,500,000 | 4,200,000 | 3,200,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | N/A | N/A | N/A |
| ECDHE Transactions/sec[3] | N/A | N/A | N/A |
| SSL Throughput (Gbps) | N/A | N/A | N/A |
| Compression Throughput (Gbps) | 18 | 15 | 12 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | N/A | N/A | N/A |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 822W | 822W | 822W |
| Typical, Max Power Consumption | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr |
| Weight (lbs) | 48 | 48 | 48 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P1D | 2U1P1D | 2U1P1D |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.
3. Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256)

| Citrix ADC Platform | MPX/SDX 26200 | MPX/SDX 26160 | MPX/SDX 26100 |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 256 GB | 256 GB | 256 GB |
| Ethernet Ports[1] | 8x 50GE QSFP28; 16x 25G SFP28 | | |
| Transceivers Support | 50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required); 25GE SFP28 Port: 25GE SFP28: SR; 10GE SFP+: SR, LR | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 26200 | Upgrade option to MPX/SDX 26200, 26160 |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 200 | 160 | 100 |
| L7 HTTP Requests/sec | 5,400,000 | 4,300,000 | 3,800,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 310,000 | 220,000 | 140,000 |
| ECDHE Transactions/sec | 130,000 | 90,000 | 60,000 |
| SSL Throughput (Gbps) | 80 | 64 | 51 |
| Compression Throughput (Gbps) | 22 | 17 | 13 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 115, 115 | 70, 115 | 20, 115 |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 1000W | 1000W | 1000W |
| Typical, Max Power Consumption | 540W, 672W | 540W, 672W | 540W, 672W |
| Weight (lbs) | 48 | 48 | 48 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P1D | 2U1P1D | 2U1P1D |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15120-50G | MPX/SDX 15100-50G | MPX/SDX 15080-50G |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 128 GB | 128 GB | 128 GB |
| Ethernet Ports[1] | 4x 50GE QSFP28; 8x 10GE SFP+ | | |
| Transceivers Support | 50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required); 10GE SFP+ Port: 10GE SFP+: SR, LR | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 15120-50G | Upgrade option to MPX/SDX 15120, 100-50G |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 120 | 100 | 80 |
| L7 HTTP Requests/sec | 4,000,000 | 4,000,000 | 3,900,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 160,000 | 140,000 | 127,000 |
| ECDHE Transactions/sec | 65,000 | 58,000 | 53,000 |
| SSL Throughput (Gbps) | 74 | 70 | 60 |
| Compression Throughput (Gbps) | 10.8 | 10 | 9.3 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 55, 55 | 50, 55 | 45, 55 |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 522W | 522W | 522W |
| Typical, Max Power Consumption | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr |
| Weight (lbs) | 39 | 39 | 39 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15060-50G | MPX/SDX 15040-50G |
|---|---|---|
| **Attributes** | | |
| Memory | 128 GB | 128 GB |
| Ethernet Ports[1] | 4x 50GE QSFP28; 8x 10GE SFP+ | |
| Transceivers Support | 50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required); 10GE SFP+ Port: 10GE SFP+: SR, LR | |
| RAID Support | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | Upgrade option to MPX/SDX 15120, 100, 80-50G | Upgrade option to MPX/SDX 15120, 100, 80, 60-50G |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 60 | 40 |
| L7 HTTP Requests/sec | 3,200,000 | 3,000,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 110,000 | 66,000 |
| ECDHE Transactions/sec | 45,000 | 28,000 |
| SSL Throughput (Gbps) | 50 | 40 |
| Compression Throughput (Gbps) | 8.5 | 7.8 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 40, 55 | 30, 55 |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 522W | 522W |
| Typical, Max Power Consumption | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr |
| Weight (lbs) | 39 | 39 |
| Height | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | |
| Depth | 72 cm (28.3 in) | 72 cm (28.3 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | |
| Regulatory Compliance | RoHS, WEEE | RoHS, WEEE, REACH |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15030-50G | MPX/SDX 15020-50G |
|---|---|---|
| **Attributes** | | |
| Memory | 128 GB | 128 GB |
| Ethernet Ports[1] | 4x 50GE QSFP28; 8x 10GE SFP+ | |
| Transceivers Support | 50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required); 10GE SFP+ Port: 10GE SFP+: SR, LR | |
| RAID Support | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | Upgrade option to MPX/SDX 15120, 100, 80, 60, 40-50G | Upgrade option to MPX/SDX 15120, 100, 80, 60, 40, 30-50G |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 30 | 20 |
| L7 HTTP Requests/sec | 2,800,000 | 2,500,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 42,000 | 24,000 |
| ECDHE Transactions/sec | 20,000 | 10,000 |
| SSL Throughput (Gbps) | 30 | 20 |
| Compression Throughput (Gbps) | 7.2 | 6.4 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 20, 55 | 5, 55 |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 522W | 522W |
| Typical, Max Power Consumption | 300W, 1024 BTU/Hr | 300W, 1024 BTU/Hr |
| Weight (lbs) | 39 | 39 |
| Height | 2U | 2U |
| Width | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | |
| Depth | 72 cm (28.3 in) | 72 cm (28.3 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | |
| Regulatory Compliance | RoHS, WEEE, REACH | RoHS, WEEE |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15120 | MPX/SDX 15100 | MPX/SDX 15080 |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 128 GB | 128 GB | 128 GB |
| Ethernet Ports[1] | 16x 25GE SFP28 | 16x 25GE SFP28 | 16x 25GE SFP28 |
| Transceivers Support | 25GE SFP28: SR; 10GE SFP+: SR, LR | | |
| RAID Support | Yes | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 15120 | Upgrade option to MPX/SDX 15120, 15100 |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 120 | 100 | 80 |
| L7 HTTP Requests/sec | 3,900,000 | 3,600,000 | 3,500,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 160,000 | 140,000 | 127,000 |
| ECDHE Transactions/sec | 65,000 | 58,000 | 53,000 |
| SSL Throughput (Gbps) | 74 | 70 | 60 |
| Compression Throughput (Gbps) | 10.8 | 10.5 | 9.3 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 55, 55 | 50, 55 | 45, 55 |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 2 | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 1000W | 1000W | 1000W |
| Typical, Max Power Consumption | 310W, 420W | 310W, 420W | 310W, 420W |
| Weight (lbs) | 60 | 60 | 60 |
| Height | 2U | 2U | 2U |
| Width | EIA 310-D for 19 inch racks | | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15060 | MPX/SDX 15040 |
|---|---|---|
| **Attributes** | | |
| Memory | 128 GB | 128 GB |
| Ethernet Ports[1] | 16x 25GE SFP28 | 16x 25GE SFP28 |
| Transceivers Support | 25GE SFP28: SR; 10GE SFP+: SR, LR | |
| RAID Support | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | Upgrade option to MPX/SDX 15120, 15100, 15080 | Upgrade option to MPX/SDX 15120, 15100, 15080, 15060 |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 60 | 40 |
| L7 HTTP Requests/sec | 3,200,000 | 3,000,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 110,000 | 66,000 |
| ECDHE Transactions/sec | 45,000 | 28,000 |
| SSL Throughput (Gbps) | 50 | 40 |
| Compression Throughput (Gbps) | 8.5 | 7.8 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 40, 55 | 30, 55 |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 1000W | 1000W |
| Typical, Max Power Consumption | 310W, 420W | 310W, 420W |
| Weight (lbs) | 60 | 60 |
| Height | 2U | 2U |
| Width | EIA 310-D for 19 inch racks | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | |
| Regulatory Compliance | RoHS, WEEE, REACH | |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 15030 | MPX/SDX 15020 |
|---|---|---|
| **Attributes** | | |
| Memory | 128 GB | 128 GB |
| Ethernet Ports[1] | 16x 25GE SFP28 | 16x 25GE SFP28 |
| Transceivers Support | 25GE SFP28: SR; 10GE SFP+: SR, LR | |
| RAID Support | Yes | Yes |
| Pay-as-you-grow & Burst Pack License Upgrades | Upgrade option to MPX/SDX 15120, 15100, 15080, 15060, 15040 | Upgrade option to MPX/SDX 15120, 15100, 15080, 15060, 15040, 15030 |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 30 | 20 |
| L7 HTTP Requests/sec | 2,800,000 | 2,500,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 42,000 | 24,000 |
| ECDHE Transactions/sec | 20,000 | 10,000 |
| SSL Throughput (Gbps) | 30 | 20 |
| Compression Throughput (Gbps) | 7.2 | 6.4 |
| ICA Proxy/SSL VPN Concurrent Users | 20,000 | 20,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 20, 55 | 5, 55 |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 2 | 2 |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 1000W | 1000W |
| Typical, Max Power Consumption | 310W, 420W | 310W, 420W |
| Weight (lbs) | 60 | 60 |
| Height | 2U | 2U |
| Width | EIA 310-D for 19 inch racks | |
| Depth | 71.1 cm (28 in) | 71.1 cm (28 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1 | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC) | |
| Regulatory Compliance | RoHS, WEEE, REACH | |
| Citrix Compliance Regulatory Model | 2U1P1A | 2U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX/SDX 8930 | MPX/SDX 8920 |
|---|---|---|
| **Attributes** | | |
| Memory | 32 GB | 32 GB |
| Ethernet Ports[1] | 4x 10GE SFP+; 6x 10/100/1000 CU | |
| Transceivers Support | 10GE SFP+: SR, LR | |
| RAID Support | No | No |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX/SDX 8930 |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 33 | 20 |
| L7 HTTP Requests/sec | 2,300,000 | 1,700,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 40,000 | 22,000 |
| ECDHE Transactions/sec[4] | 16,000 | 10,000 |
| SSL Throughput (Gbps) | 25 | 20 |
| Compression Throughput (Gbps) | 4.8 | 4 |
| ICA Proxy/SSL VPN Concurrent Users | 10,000 | 10,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | 2, 7 | 2, 7 |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 1 (2nd optional) | 1 (2nd optional) |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 275W | 275W |
| Typical, Max Power Consumption | 225W | 225W |
| Weight (lbs) | 25 | 25 |
| Height | 1U | 1U |
| Width | EIA 310-D for 19 inch racks | |
| Depth | 61 cm (24 in) | 61 cm (24 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | CSA | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC | |
| Regulatory Compliance | RoHS, WEEE, REACH | |
| Citrix Compliance Regulatory Model | 1U1P1A | 1U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX 8910 | MPX 8905 |
|---|---|---|
| **Attributes** | | |
| Memory | 32 GB | 32 GB |
| Ethernet Ports[1] | 4x 10GE SFP+; 6x 10/100/1000 CU | |
| Transceivers Support | 10GE SFP+: SR, LR | |
| RAID Support | No | No |
| Pay-as-you-grow & Burst Pack License Upgrades | Upgrade option to MPX 8930, 8920 | Upgrade option to MPX 8930, 8920, 8910 |
| **Performance** | | |
| System Throughput (Gbps) [L7 Throughput] | 10 | 5 |
| L7 HTTP Requests/sec | 1,400,000 | 990,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 13,000 | 8,000 |
| ECDHE Transactions/sec[4] | 6,000 | 4,000 |
| SSL Throughput (Gbps) | 10 | 5 |
| Compression Throughput (Gbps) | 3.5 | 2.5 |
| ICA Proxy/SSL VPN Concurrent Users | 10,000 | 10,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | N/A | N/A |
| **Mechanical, Environmental, and Regulatory** | | |
| Power Supplies | 1 (2nd optional) | 1 (2nd optional) |
| Input Voltage, Frequency Range | 100-240 VAC full range, 50-60 Hz | 100-240 VAC full range, 50-60 Hz |
| Optional DC Power Supply | Yes | Yes |
| Max Power Supply | 275W | 275W |
| Typical, Max Power Consumption | 225W | 225W |
| Weight (lbs) | 25 | 25 |
| Height | 1U | 1U |
| Width | EIA 310-D for 19 inch racks | |
| Depth | 61 cm (24 in) | 61 cm (24 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | CSA | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC | |
| Regulatory Compliance | RoHS, WEEE, REACH | |
| Citrix Compliance Regulatory Model | 1U1P1A | 1U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

| Citrix ADC Platform | MPX 5910 | MPX 5905 | MPX 5901 |
|---|---|---|---|
| **Attributes** | | | |
| Memory | 16 GB | 16 GB | 16 GB |
| Ethernet Ports[1] | 2x 10GE SFP; 6x 10/100/1000 CU | | |
| Transceivers Support | 10GE SFP+: SR, LR; 1GE SFP: CU | | |
| RAID Support | No | No | No |
| Pay-as-you-grow & Burst Pack License Upgrades | - | Upgrade option to MPX 5910 | Upgrade option to MPX 5910, 5905 |
| **Performance** | | | |
| System Throughput (Gbps) [L7 Throughput] | 10 | 5 | 1 |
| L7 HTTP Requests/sec | 900,000 | 700,000 | 400,000 |
| SSL Transactions/sec (2K Key Certificates)[2] | 12,000 | 6,000 | 4,000 |
| ECDHE Transactions/sec | 6,000 | 3,000 | 1,700 |
| SSL Throughput (Gbps) | 8 | 5 | 1 |
| Compression Throughput (Gbps) | 2.5 | 1.5 | 1 |
| ICA Proxy/SSL VPN Concurrent Users | 5,000 | 5,000 | 5,000 |
| Included Instances, Maximum Instances (on SDX Platforms) | N/A | N/A | N/A |
| **Mechanical, Environmental, and Regulatory** | | | |
| Power Supplies | 1 (2nd optional) | 1 (2nd optional) | 1 (2nd optional) |
| Input Voltage, Frequency Range | 100-240 VAC full range | 100-240 VAC full range | 100-240 VAC full range |
| Optional DC Power Supply | Yes | Yes | Yes |
| Max Power Supply | 366W | 366W | 366W |
| Typical, Max Power Consumption | 300W, 840 BTU/Hr | 300W, 840 BTU/Hr | 300W, 840 BTU/Hr |
| Weight (lbs) | 25 | 25 | 25 |
| Height | 1U | 1U | 1U |
| Width | EIA 310-D for 19 inch racks | | |
| Depth | 61 cm (24 in) | 61 cm (24 in) | 61 cm (24 in) |
| Operating Temperature | 0-45°C (32-113°F) | 0-45°C (32-113°F) | 0-45°C (32-113°F) |
| Allowed Relative Humidity | 5%-95%, Non-condensing | 5%-95%, Non-condensing | 5%-95%, Non-condensing |
| Safety Certifications | CSA | | |
| Electromagnetic Emissions Certifications & Susceptibility Standard | FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC | | |
| Regulatory Compliance | RoHS, WEEE, REACH | | |
| Citrix Compliance Regulatory Model | 1U1P1A | 1U1P1A | 1U1P1A |

1. Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.
2. Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

# Technical Aspects

## Citrix Gateway

- Provides consolidation of secure remote access infrastructure with one URL
- Provides SAML 2.0 federated identity to provide single sign-on (SSO) across all applications, whether in a data center or in a cloud
- One URL to access any application
- AlwaysON allows auto-reconnect of SSL VPN session when users are moving between networks
- AlwaysON VPN allows to establish a VPN connection before Windows logon that help admin manage the laptop remotely
- Integration with StoreFront allows importing UI changes from StoreFront to Gateway portal and vice versa
- Gateway Insight for monitoring and troubleshooting all Gateway traffic for issues like authentication, EPA, single sign-on failures, etc.
- nFactor authentication for all applications
- Stateless RDP proxy
- Support for Linux (Ubuntu 18 and 16.04)
- Support for Mac (OS X 10.14, OS X 10.15)
- Support for Windows 10, 8, 8.1 and 7 (32bit / 64bit)
- Support for iOS 12 or later. Compatible with iPhone, iPad, and iPod touch.
- Support for Android 7.0 and later

## Secure Access

- Citrix Virtual Apps and Desktops and Citrix Endpoint Management, formerly XenMobile, integration
- Device certificate scanning
- Single sign-on using NTLM/Kerberos/SAML, etc.
- SmartAccess: Adaptive application and action control enforced on Citrix Virtual Apps and Desktops servers
- SmartControl: Adaptive application and action control enforced on Citrix Gateway, thereby providing centralized policy management and security at the edge
- Integrated Citrix Gateway SSL VPN

- For ADC versions after 11.1, the Standard edition includes (500) Universal licenses, Enterprise or Advanced editions include (1000) Universal licenses, and there are no Universal license requirements with Platinum or Premium editions. For versions previous to Citrix ADC 11.1, the Standard and Enterprise editions include (5) Universal licenses, and the Platinum edition includes (100) Universal licenses.
- Endpoint analysis of user device
- SAML 2.0 and nFactor; passwords for single sign on to appications running behind Citrix Gateway
- AAA traffic management
- SAML 2.0 and NTLMv1/2 support for configuring ADC with single sign-on (SSO)
- Support for Active Directory, LDAP, RADIUS, TACACS +, OCSP, Diameter, etc.

## L4-7 Traffic Management

### Layer 4 Load Balancing (LB)

- Protocols supported: TCP, UDP, FTP, HTTP, HTTPS, DNS (TCP and UDP), SIP (over UDP), RTSP, RADIUS, Diameter, SQL, RDP, IS-IS, SMPP
- Algorithms: Round Robin, Least Packets, Least Bandwidth, Least Connections, Response Time, Hashing (URL, Domain, Source IP, Destination IP, and CustomID), SNMP-provided metric, Server Application State Protocol (SASP)
- Session persistence: Source IP, cookie, server, group, SSL session, SIP CALLID, Token-based, SESSIONID, Diameter AVP
- Session protocols: TCP, UDP, SSL_TCP, Multi-path TCP, SPDY
- Server monitoring: Ping, TCP, URL, ECV, scriptable health checks, Dynamic Server Response Time
- Link load balancing

### Layer 7 Content Switching

- Policies: URL, URL Query, URL Wildcard, Domain, Source/ Destination IP, HTTP Header, Custom, HTTP and TCP Payload Values, UDP, Diameter AVP
- Switch requests based on protocol of incoming packets

### Database Load Balancing

- Support for Microsoft SQL Server and MySQL
- Switching algorithms include SQL query parameters such as user and database names and command parameters
- Token-based load balancing provides advanced configuration for persistence and fault-tolerant deployments

### TriScale Clustering[2]

- inScale-Outin with clustering up to 32 Citrix ADC appliances into single system image and up to 3 Tbps throughput
- Configuration Coordinator node for centralized management and synchronization
- Compatible with Pay-As-You-Grow and Burst Pack performance upgrades
- Traffic distribution mechanisms include: Equal Cost Multiple Path (ECMP), Link- sets, and Cluster Link Aggregation Group (CLAG)
- Available on Citrix ADC MPX, SDX, and VPX
- Modules may be configured on all nodes in a cluster or using "spotted VIPS," in which they are added only to a select subset of nodes

### e-based Policy Enforcement

- Trigger ADC policies based upon connections per second, packets per second, or bandwidth used
- Source or destination-based upon header or payload information

### Traffic Domains

- Allows overlapping IP addresses
- Provides separate routing flows within a single appliance
- Enables basic multi-tenancy implementations

### Admin Partitioning

- Independent instances that share resources on the appliance
- Maximum number of 512 admin partitions per appliance

### Global Server Load Balancing (GSLB)

- Algorithms: site health, geographic proximity, network proximity, connections, bandwidth, AG-E SSL, VPN users
- Site health checking on status, connection load, packet rate, SNMP-provided metrics

### Surge Protection and Priority Queuing[2]

- Adaptive rate control for TCP connections and HTTP requests
- Prioritized transaction dispatch for critical application requests

### Carrier-grade Network Address Translation[2]

- Support for: Full-cone NAT, Deterministic NAT, Endpoint-Independent Mapping and Filtering, Hairpinning
- Application Layer Gateways: FTP, TFTP, ICMP, SIP, RTSP, PPTP, GRE

### Subscriber-aware Traffic Steering

- Policy control interface: Gx, RADIUS

## Application Acceleration

### TCP Optimization

- Multiplexing, buffering, connection keep-alive, windows scaling, selective acknowledgement, fast ramp, TCP Westwood
- AppCompress
- Gzip-based compression for HTTP traffic AppCache[3]
- Caching for static and dynamic application content
- HTTP GET and POST method support
- Policies defined based upon HTTP header and body values

# Application Security

## DoS Attack Defense

- Continue service to legitimate users while protecting against attacks such as SYN Flood, HTTP DoS, and Ping of Death
- ICMP and UDP rate control

## Content Rewriting and Response Control

- Policy-based bidirectional rewriting of HTTP header and payload elements
- Policy-based redirection of incoming requests
- Body URL rewrite
- Responder module
- Custom responses and redirects
- Policy-based routing
- Network aware policies

## SSL Encryption

- Supports Thales nShield and SafeNet HSM integration

## DNSSEC

- DNS proxy
- Authoritative DNS
- DNS signing

## Packet Filtering

- Layer 3 and 4 Access Control Lists (ACL)
- Network Address Translation (NAT)
- IPv4/IPv6 Network Address Translation (NAT)

## Citrix Web App Firewall with Hybrid Security Model[3]

- Positive security model protects against: buffer overflow, CGI- BIN parameter manipulation, form/hidden field manipulation, forceful browsing, cookie or session poisoning, broken ACLs, cross-site scripting (XSS), command injection, SQL injection, error triggering sensitive information leak, insecure use of cryptography, server misconfiguration, back doors and debug options, rate-based policy enforcement, well known platform vulnerabilities, zero-day exploits, cross site request forgery (CSRF), credit card and other sensitive data leakage prevention
- Negative security model with automatically updated signatures to protect against L7 and HTTP application vulnerabilities
- Integrates with third-party scanning tools
- Common event format (CEF) logs
- XML security: XML denial of service (xDoS)
- XML SQL injection and cross site scripting, XML message validation, format checks, WS-I basic profile compliance, XML, xPath injection attachment check, xQuery Injection protection
- WSDL scan prevention
- Attachment checks
- URLtransformation
- Cookie proxy and encryption
- SOAP array attack protection

## IP Reputation Service

- Enhanced service that provides a continuously updated list of malicious IP addresses in near realtime

## Cloud Connector for Citrix Networking[3]

- Network connectivity protection via IPSec security
- Datacenter extension through GRE-based network bridging

## Support for Citrix Endpoint Management MDM[5]

- Front end optimization scalable to over 100,000 concurrent users
- Citrix Gateway connector for Exchange ActiveSync provides a device level authorization service
- Application level policy controlled SSL VPN tunneling for mobile clients

# Network Integration

- Static routes, monitored static routes, weighted static routes
- OSPF, RIP1/2, BGP2
- VLAN 802.1Q
- Link Aggregation 802.3ad

- Stateful IPv6 to IPv4 network address translation and DNS64
- Static and stateless network address translation from IPv4 to IPv6

### High Availability

- Active/Passive
- Active/Active
- VRRP
- ECMP
- Connection mirroring

## Simplified Installation and Management

### User Interface

- Graphical application visualizer
- Secure web-based GUI
- CLI, Telnet, SSH, Console
- Real-time performance dashboard
- LB, GSLB Application Firewall and configuration wizards for monitoring
- Citrix Virtual Apps configuration wizards

### Policy Management

- AppExpert Visual Policy Builder
- Policy extensibility via HTTP service callouts
- AppExpert templates
- AppExpert Visualizers

### Command Center

- Centralized configuration and management of over 200 Citrix ADC appliances

### Citrix Application Delivery Management (ADM)

- Citrix ADM is a software solution enabling traffic visibility; it includes HDX Insight and Web Insight and is based on AppFlow
- HDX Insight parses ICA sessions to provide troubleshooting, network analysis, and end-to-end performance for Citrix Virtual Apps and Desktops sessions. Historical data included in Premium Edition.

- Web Insight monitors real-time web application traffic and assists capacity planning and helps ensure SLAs
- AppFlow Standards-based NetFlow/IPFIX (Internet Protocol Flow Information Export) solution
- Supported by leading performance monitoring and management vendors
- Provides transaction level visibility for HTTP, SSL, TCP, and SSL/TCP flows

### Action Analytics

- Aggregates real-time traffic statistics and enables their use in setting dynamic policies
- Charting and analysis utilities using HDX Insight

### Third-party Management Support

- SNMPv1, SNMPv2, and SNMPv3: Citrix ADC MIB and MIB-II support
- Microsoft System Center Operations Management (SCOM) support
- Comtrade support with Management Pack for Citrix ADC
- Microsoft System Center Virtual Machine Manager (SCVMM) support
- XML/SOAP API for automated application-driven configuration

### Real-time Consolidated Logging

- Offloads logging from application server to a central location

### Native Web Interface

- Integrated Web Interface Server for Citrix Virtual Apps and Desktops
- Supports JAVA environments with MPX and VPX platforms running Citrix ADC nCore OS
- Authentication methods include: LDAP, RADIUS, NTLM, TACACS+, Client Certificate
- Manage HTTPS requests via included SSL VPN
- Wizards-based configuration through Citrix ADC GUI
- Login page customization
- Includes Smart Access, smooth roaming, STA server redundancy, and session reliability

# Lower Total Cost of Ownership

## Web Cache Redirection[2]

- Automatically direct requests with content not cached on ADC to cache farm
- N-tier multilayer load balancing support of cache servers

1. Additional ADC packs with 3 (8xxx) or 5 (all other models) instances each are available. For SDX 8015, the maximum number of instances is 5.

2. Available in ADC Advanced and Premium editions only.

3. Included in Premium edition only; not available with Standard or Advanced editions.

4. Available as a license upgrade on all editions and for MPX, SDX (excluding 22000 series), and VPX appliances.

5. Advanced edition with AppCache or Premium edition recommended.