



# MATE and WAE Release 6.1 System Requirements

Collector requirements vary, depending on the product it is paired with and whether or not it is collecting flow.

We strongly recommend that NTP (Network Time Protocol) be used for synchronizing times on all routers, and on all servers used in the collection process and high availability clusters. For instance, router and collection server synchronization is required to produce accurate traffic and collection log timestamps.

Please contact your Cisco representative if you have questions.

## Collector with MATE Live

Supported Operating System	Supported Software	Hardware		
		CPU	Memory	Hard Drive
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz, 8+Core	Min: 32 GB Suggested: 64 GB	Min: 1 TB Suggested: 2 TB

Only English version of Linux is supported.  
Other Red Hat and Debian-based Linux distributions should work, but are not officially supported.  
Software has been qualified on CentOS 6.5.

## MATE Live Kernel Parameters

Kernel Parameter	Value
SHMALL	4294967296
SHMMAX	4398046511104
SHMMNI	4096
SEMMNS	32000
SEMMSL	250
SEMOPM	32
Maximum number of file descriptors	65535

## Collector with MATE Design Archive

Supported Operating System	Supported Software	Hardware		
		CPU	Memory**	Hard Drive
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz, 4+ Core Suggested: 8+ Core	Min: 32 GB Suggested: 64 GB	Min: 1 TB Suggested: 2 TB
<p>Only English version of Linux is supported.            Other Red Hat and Debian-based Linux distributions should work, but are not officially supported.            Software has been qualified on CentOS 6.5.            ** Increase by 2 GB for each additional 5 concurrent users.</p>				

## Collector with Flow Collection

Supported Operating System	Supported Software	Hardware		
		CPU"	Memory**, ^	Hard Drive
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz, 4+ Core Suggested: 8+ Core	32 GB Suggested: 64 GB	1 TB
<p>Only English version of Linux is supported.            Other Red Hat and Debian-based Linux distributions should work, but are not officially supported.            Software has been qualified on CentOS 6.5.            Flow collection requires Linux Kernel 2.6.32 or greater.            ** Increase by 2 GB for each additional 5 concurrent users.            ^ = Increase by: 300 MB + (&lt;# of BGP peers&gt; * 21MB), when BGP is enabled.            " = One flow collection server is required per 100 Mbps of flow export bandwidth usage.</p>				

## WAN Automation Engine (Core)

Supported Operating System	Supported Software	Hardware		
		CPU**	Memory	Hard Drive
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz, 8+ Core	Min: 32 GB Suggested: 64+ GB	1 TB
<p>Only English version of Linux is supported.            Other Red Hat Linux distributions should work, but are not officially supported.            Software has been qualified on CentOS 6.5.            **Increase 1 GB of memory for each additional core used.</p>				

## WAN Automation Engine (North Bound)

Supported Operating System	Supported Software	Hardware		
		CPU**	Memory	Hard Drive
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz, 2 Core Suggested: 4 Core	Min: 2 GB Suggested: 4+ GB	40 GB
<p>Only English version of Linux is supported.            Other Red Hat Linux distributions should work, but are not officially supported.            Software has been qualified on CentOS 6.5.            **Increase 1GB of memory for each additional core used.</p>				

## MATE Design Stand-Alone Requirements

A stand-alone MATE Design system does not require the use of Collector.

MATE Design is a 64-bit installation on all supported operating systems.

A Perl installation is required for some MATE features. Please refer to Package section for details.

A Python installation is required for some MATE features. Please refer to Package section for details.

Supported Operating System	Supported Software	Hardware	
		CPU	Memory
Linux-x86_64	RHEL/CentOS 6 with latest patches	Intel or AMD 2+ GHz	8 GB Suggested: 16 GB
Windows (64-bit)	Windows 2008 *, 7.0*	Intel or AMD 2+ GHz	8 GB Suggested: 16 GB
Mac OS X x86_64	10.6.7+	Intel 2+ GHz	8 GB Suggested: 16 GB
Only English version of Linux is supported. Other Red Hat and Debian-based Linux distributions should work, but are not officially supported. * Recommended			

## Web Browser

Web Browser	Version
Google Chrome	39
Firefox	34
Internet Explorer	11
Other version of browser should work, but are not officially supported.	

## Packages

### Perl Packages

Operating System	Product	Package
Linux-x86_64	Collector with flow collection	5.8.8
	Collector with MATE Design Archive	
	Stand-alone MATE Design	
Windows (64-bit)	Stand-alone MATE Design	5.12.3
Mac OS X x86_64	Stand-alone MATE Design	5.10

## Python Packages

Operating System	Product	Package
Linux-x86_64	WAE	2.6.x
	Stand-alone MATE Design	
Windows (64-bit)	Stand-alone MATE Design	2.7.x
Mac OS X x86_64	Stand-alone MATE Design	2.6.x

## Font Packages

Package	Description
bitstream-vera-fonts	Bitstream Vera fonts
ghostscript-fonts	Ghostscript fonts
libXft	X font library
xorg-x11-fonts-Type1	X.org Type1 fonts

## Red Hat Linux-x86\_64 Packages

Package	Description	Required by Component
ansible	Simple IT automation platform	wae-platsvcs
cman	Cluster management in the high availability add-on for Red Hat Enterprise Linux	Linux HA
coreutils	GNU core utilities	wae-db
corosync	Corosync Cluster Engine and APIs	Linux HA
cyrus-sasl-lib	Shared libraries needed by applications that use Cyrus SASL	mate*
db4	Berkeley DB database library (version 4) for C	mate*
e2fsprogs-libs	Ext2/3 filesystem-specific static libraries and headers	mate*
ed	Simple command line editor	mate*
expat	A library for parsing XML	mate*
fontconfig	Font configuration and customization library	mate*
freetype	Free and portable font rendering engine	mate*
glibc	GNU libc libraries	mate* wae-messaging
jdk 1.7	Oracle JDK	wae
keyutils-libs	Key utilities library	mate*
krb5-libs	Shared libraries used by Kerberos 5	mate*
libaio	Linux-native asynchronous I/O access library	mate*
libdrm	libdrm Direct Rendering Manager runtime library	mate*
libgcc-4.x	GCC version 4.1 shared support library	mate*
libICE	X.Org X11 libICE runtime library	mate*

Package	Description	Required by Component
libselinux	SELinux library and simple utilities	mate*
libsepol	SELinux binary policy manipulation library	mate*
libselinux-python	Python bindings for developing SELinux applications	wae-platsvcs
libSM	X.Org X11 libSM runtime library	mate*
libstdc++-4.x	GNU Standard C++ Library	mate*
libX11	X.Org X11 libX11 runtime library	mate*
libXau	X.Org X11 libXau runtime library	mate*
libXdmcp	X.Org X11 libXdmcp runtime library	mate*
libXext	X.Org X11 libXext runtime library	mate*
libXrender	X.Org X11 libXrender runtime library	mate*
libXxf86vm	X.Org X11 libXxf86vm runtime library	mate*
mesa-libGL	Mesa libGL runtime libraries and DRI drivers	mate*
ncurses-5.x	Terminal handling library	mate*
ntp	Network Time Protocol	collector wae-core
openldap	Configuration files, libraries, and documentation for OpenLDAP	mate*
pam	Security tool that provides authentication for applications	mate*
pacemaker	High-availability Cluster Resource Manager	Linux HA
pcs	Pacemaker command-line interface	Linux HA
redhat-lsb	Linux standard base library	FlexNet Publisher license
rsync	Utility to keep copies of a file on two computer systems the same	wae-platsvcs
screen	Full-screen window manager that multiplexes a physical terminal between several processes, typically interactive shells	mate*
sshpass	Tool for non-interactively performing password authentication with SSH	wae-platsvcs
zlib	zlib compression and decompression library	mate*

\*mate includes Collector server, Collector snapshots, MATE Design, and MATE Live.

## Port Usage

Port	Protocol	Description	Use by Service
2224	TCP	Pacemaker command line interface communication port	Linux HA
5404	UDP	Corosync Cluster Engine and APIs communication port	Linux HA
179	TCP	Border Gateway Protocol	wae-cdl wae-collector
4189	TCP	Path Computation Element Communication Protocol (PCEP)	wae-cdl
8101	TCP	Console SSH port	wae-cdl
8181	TCP	Web console	wae-cdl
44444	TCP	Remote Method Invocation (RMI) server port	wae-cdl
123	UDP	Network Time Protocol	wae-collector wae-core
1199	TCP	Remote Method Invocation (RMI) registry port	wae-collector
5006	TCP	Debug	wae-collector
8086	TCP	Representational State Transfer (ReST) interface (Port for accessing northbound Continuous Poller server)	wae-collector
8102	TCP	Console SSH port	wae-collector
8182	TCP	Web console	wae-collector
44445	TCP	Remote Method Invocation (RMI) server port	wae-collector
61617	TCP	Java Message Service (JMS) (Port that Continuous Poller server uses to receive plan files)	wae-collector
1299	TCP	Remote Method Invocation (RMI) registry port	wae-core
5007	TCP	Debug	wae-core
5701-5720	TCP	Communication between memory cache member and client	wae-core
7776	TCP	Jetty Engine port	wae-core
7777	TCP	Representational State Transfer (ReST) interface	wae-core
8103	TCP	Console SSH port	wae-core
8183	TCP	Web console	wae-core
9898	TCP	Thrift interface	wae-core
44446	TCP	Remote Method Invocation (RMI) server port	wae-core
56017	TCP	Communication between memory cache members	wae-core
7000	TCP	Intra-node port non-TLS port	wae-db
7001	TCP	Intra-node TLS port	wae-db
7199	TCP	Java Management Extension (JMX) monitoring port	wae-db
9042	TCP	Query Language Native Transport port	wae-db
9160	TCP	Thrift interface	wae-db
8008	TCP	Web console	wae-demo
27017	TCP	Database web status	wae-demo
28017	TCP	Database daemon and database shard	wae-demo
61610	TCP	Java Message Service (JMS) New I/O (NIO)	wae-messaging
61614	TCP	Java Message Service (JMS) web socket	wae-messaging
61615	TCP	Java Message Service (JMS) message queue transport	wae-messaging
61616	TCP	Java Message Service (JMS) openwire transport	wae-messaging
8005	TCP	Collector shutdown port	wae-web-server
8009	TCP	AJP connector for Collector Server	wae-web-server
8080	TCP	Hypertext Transfer Protocol	wae-web-server
8443	TCP	Hypertext Transfer Protocol Secure	wae-web-server

For further details, please visit [www.cisco.com/go/wae](http://www.cisco.com/go/wae) and [www.cisco.com/go/mate](http://www.cisco.com/go/mate).

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**Americas Headquarters**  
Cisco Systems, Inc.  
San Jose, CA

**Asia Pacific Headquarters**  
Cisco Systems (USA) Pte. Ltd.  
Singapore

**Europe Headquarters**  
Cisco Systems International BV Amsterdam,  
The Netherlands

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