



Supported Packages and System Requirements

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Memory Requirements

The following table displays the memory recommendations for the Cisco cBR-8 routers with Cisco IOS XE Bengaluru 17.6 feature sets.

Table 1: Memory Recommendations for the Cisco cBR-8 Routers with Cisco IOS XE Bengaluru 17.6.1z1

Feature Set	Cisco cBR-8 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR-8 (CBR) Processor	cbrsup-universalk9.17.6.1z1.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR-8 (CYLONS) Processor	cbrsup-universalk9.17.6.1z1.SPA.bin	8G	16G	Supervisor
CISCO IOS-XE Kobl-R	Cisco cBR-8 (Kobl-R) Processor	cbrsup-universalk9.17.6.1z1.SPA.bin	8G	64G	Supervisor

Table 2: Memory Recommendations for the Cisco cBR-8 Routers with Cisco IOS XE Bengaluru 17.6.1z

Feature Set	Cisco cBR-8 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR-8 (CBR) Processor	cbrsup-universalk9.17.6.1z.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR-8 (CYLONS) Processor	cbrsup-universalk9.17.6.1z.SPA.bin	8G	16G	Supervisor
CISCO IOS-XE Kobol-R	Cisco cBR-8 (Kobol-R) Processor	cbrsup-universalk9.17.6.1z.SPA.bin	8G	64G	Supervisor

Table 3: Memory Recommendations for the Cisco cBR-8 Routers with Cisco IOS XE Bengaluru 17.6.1x

Feature Set	Cisco cBR-8 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR-8 (CBR) Processor	cbrsup-universalk9.17.6.1x.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR-8 (CYLONS) Processor	cbrsup-universalk9.17.6.1x.SPA.bin	8G	16G	Supervisor
CISCO IOS-XE Kobol-R	Cisco cBR-8 (Kobol-R) Processor	cbrsup-universalk9.17.6.1x.SPA.bin	8G	64G	Supervisor

Table 4: Memory Recommendations for the Cisco cBR-8 Routers with Cisco IOS XE Bengaluru 17.6.1w

Feature Set	Cisco cBR-8 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR-8 (CBR) Processor	cbrsup-universalk9.17.6.1w.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR-8 (CYLONS) Processor	cbrsup-universalk9.17.6.1w.SPA.bin	8G	16G	Supervisor
CISCO IOS-XE Kobol-R	Cisco cBR-8 (Kobol-R) Processor	cbrsup-universalk9.17.6.1w.SPA.bin	8G	64G	Supervisor

Table 5: Memory Recommendations for the Cisco cBR-8 Routers with Cisco IOS XE Bengaluru 17.6.1a

Feature Set	Cisco cBR-8 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR-8 (CBR) Processor	cbrsup-universalk9.17.6.1.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR-8 (CYLONS) Processor	cbrsup-universalk9.17.6.1.SPA.bin	8G	16G	Supervisor
CISCO IOS-XE Kobol-R	Cisco cBR-8 (Kobol-R) Processor	cbrsup-universalk9.17.6.1.SPA.bin	8G	64G	Supervisor

Supported Hardware

For detailed information about the hardware supported in Cisco IOS XE Bengaluru 17.6 and its maintenance releases, see: [How and What to Order](#).

Cisco announced September 18, 2020, as the end-of-sale date for the Cisco cBR-8 Leoben1 based DOCSIS line cards (CBR-LC-*-16U30) and SUP60 (CBR-CCAP-SUP-60G).

For further information regarding end-of-sale and end-of-life announcements, see <https://www.cisco.com/c/en/us/products/video/cbr-series-converged-broadband-routers/eos-eol-notice-listing.html>.

Determining the Software Version for Cisco IOS XE Bengaluru 17.6.1z1

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Router, log in and enter the **show ver** EXEC command:

```
Router# show ver
Load for five secs: 11%/1%; one minute: 11%; five minutes: 11%
Time source is NTP, 13:21:51.230 EST Tue Oct 25 2022
Cisco IOS XE Software, Version 17.06.01z1
Cisco IOS Software [Bengaluru], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
17.6.1z1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2022 by Cisco Systems, Inc.
Compiled Mon 10-Oct-22 19:32 by mcpre
```

```
Cisco IOS-XE software, Copyright (c) 2005-2022 by cisco Systems, Inc.
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or the applicable URL provided on the flyer accompanying the IOS-XE
software.
```

```
ROM: 16.7(8r)s
```

```
video-LWR-G-I10 uptime is 1 day, 1 hour, 7 minutes
Uptime for this control processor is 4 hours, 2 minutes
System returned to ROM by SSO Switchover at 09:12:32 EST Tue Oct 25 2022
System restarted at 09:24:26 EST Tue Oct 25 2022
System image file is "harddisk:cbrsup-universalk9.17.06.01z1.SPA.bin"
Last reload reason: Force Failover
```

```
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```

```
A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html
```

```
If you require further assistance please contact us by sending email to
export@cisco.com.
```

```
Smart Licensing Status: UNREGISTERED/EVAL MODE
```

```
Cisco cBR-8 (CBR) processor (revision CBRVE) with 11293417K/6147K bytes of memory.
Processor board ID FXS2038Q3GW
64 Gigabit Ethernet interfaces
16 Ten Gigabit Ethernet interfaces
4 Hundred Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
50331648K bytes of physical memory.
7649279K bytes of eUSB flash at bootflash:.
234365527K bytes of SATA hard disk at harddisk:.

Configuration register is 0x1820

Router#
```

Determining the Software Version for Cisco IOS XE Bengaluru 17.6.1z

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Router, log in and enter the **show version EXEC** command:

```
Router# show version
Load for five secs: 30%/2%; one minute: 40%; five minutes: 40%
Time source is NTP, 23:15:11.564 PDT Thu Jul 28 2022
Cisco IOS XE Software, Version 17.06.01z
Cisco IOS Software [Bengaluru], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
17.6.1z, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
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Compiled Wed 27-Jul-22 11:13 by mcpre
```

```
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or the applicable URL provided on the flyer accompanying the IOS-XE
software.
```

```
ROM: 16.7(8r)S
```

```
CST_RPHY_LS uptime is 13 hours, 40 minutes
Uptime for this control processor is 13 hours, 47 minutes
System returned to ROM by reload at 09:23:45 PDT Thu Jul 28 2022
System restarted at 09:34:12 PDT Thu Jul 28 2022
System image file is "harddisk:cbrsup-universalk9.17.06.01z.SPA.bin"
Last reload reason: Reload Command
```

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If you require further assistance please contact us by sending email to export@cisco.com.

Smart Licensing Status: REGISTERED/OUT OF COMPLIANCE

Cisco cBR-8 (CBR) processor (revision CBRVE) with 15199675K/6147K bytes of memory.
 Processor board ID FXS2024Q7DJ
 64 Gigabit Ethernet interfaces
 16 Ten Gigabit Ethernet interfaces
 4 Hundred Gigabit Ethernet interfaces
 32768K bytes of non-volatile configuration memory.
 50331648K bytes of physical memory.
 7649279K bytes of eUSB flash at bootflash:.
 234365527K bytes of SATA hard disk at harddisk:.

Configuration register is 0x2

Router#

Determining the Software Version for Cisco IOS XE Bengaluru 17.6.1x

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Router, log in and enter the **show version EXEC** command:

```
Router#show version
Load for five secs: 13%/2%; one minute: 29%; five minutes: 19%
Time source is NTP, 14:23:27.711 CST Thu Jan 27 2022
Cisco IOS XE Software, Version 17.06.01x
Cisco IOS Software [Bengaluru], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
17.6.1x, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2022 by Cisco Systems, Inc.
Compiled Fri 21-Jan-22 17:32 by mcpre
```

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ROM: 16.7(8r)s

Router uptime is 2 hours, 53 minutes
 Uptime for this control processor is 3 hours, 1 minute
 System returned to ROM by reload at 14:39:19 CST Tue Jan 25 2022
 System restarted at 11:29:51 CST Thu Jan 27 2022

```
System image file is "harddisk:cbrsup-universalk9.17.06.01x.SPA.bin"  
Last reload reason: PowerOn
```

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<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

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Smart Licensing Status: UNREGISTERED/EVAL MODE

```
Cisco cBR-8 (CBR) processor (revision CBRVE) with 12330259K/6147K bytes of memory.  
Processor board ID FXS17440AT7  
40 Gigabit Ethernet interfaces  
16 Ten Gigabit Ethernet interfaces  
4 Hundred Gigabit Ethernet interfaces  
32768K bytes of non-volatile configuration memory.  
50331648K bytes of physical memory.  
7649279K bytes of eUSB flash at bootflash:.  
117155287K bytes of SATA hard disk at harddisk:.
```

Configuration register is 0x2

Determining the Software Version for Cisco IOS XE Bengaluru 17.6.1w

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Router, log in and enter the **show version EXEC** command:

```
Router#show version  
Load for five secs: 100%/2%; one minute: 44%; five minutes: 11%  
Time source is NTP, *09:47:41.000 CST Fri Oct 29 2021  
Cisco IOS XE Software, Version 17.06.01w  
Cisco IOS Software [Bengaluru], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version  
17.6.1w, RELEASE SOFTWARE (fc2)  
Technical Support: http://www.cisco.com/techsupport  
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Compiled Thu 28-Oct-21 12:07 by mcpre
```

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or the applicable URL provided on the flyer accompanying the IOS-XE software.

ROM: 16.7(8r)s

Router uptime is 4 minutes
 Uptime for this control processor is 10 minutes
 System returned to ROM by reload at 09:33:06 CST Fri Oct 29 2021
 System image file is "harddisk:cbrsup-universalk9.17.06.01w.SPA.bin"
 Last reload reason: Reload Command

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Smart Licensing Status: UNREGISTERED/EVAL MODE

Cisco cBR-8 (CBR) processor (revision CBRVE) with 12330310K/6147K bytes of memory.
 Processor board ID FXS1849Q1F7
 64 Gigabit Ethernet interfaces
 16 Ten Gigabit Ethernet interfaces
 4 Hundred Gigabit Ethernet interfaces
 32768K bytes of non-volatile configuration memory.
 50331648K bytes of physical memory.
 7649279K bytes of eUSB flash at bootflash:.
 234365527K bytes of SATA hard disk at harddisk:.

Configuration register is 0x1820

Determining the Software Version for Cisco IOS XE Bengaluru 17.6.1a

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Router, log in and enter the **show version EXEC** command:

```
Router#show version
```

```
Load for five secs: 9%/1%; one minute: 9%; five minutes: 10%
```

```
Time source is NTP, 00:16:53.754 EDT Sun Aug 22 2021
```

```
Cisco IOS XE Software, Version 17.06.01a
```

```
Cisco IOS Software [Bengaluru], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
```


17.6.1a, RELEASE SOFTWARE (fc2)

Technical Support: <http://www.cisco.com/techsupport>

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ROM: 16.7(8r)S

Router uptime is 22 minutes

Uptime for this control processor is 29 minutes

System returned to ROM by reload at 20:48:00 EDT Sat Aug 21 2021

System restarted at 23:54:05 EDT Sat Aug 21 2021

System image file is "bootflash:cbrsup-universalk9.17.06.01a.SPA.bin"

Last reload reason: Reload Command

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<http://www.cisco.com/wvl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

Smart Licensing Status: UNREGISTERED/EVAL MODE

Cisco cBR-8 (CBR) processor (revision CBR) with 8424246K/6147K bytes of memory.

Processor board ID FXS1924Q2E2

52 Gigabit Ethernet interfaces

32768K bytes of non-volatile configuration memory.

50331648K bytes of physical memory.

7743487K bytes of eUSB flash at bootflash:.

117155287K bytes of SATA hard disk at harddisk:.

3911744K bytes of USB flash at usb0:.

Configuration register is 0x2102

Determine Firmware Support

This section describes firmware that is supported for the Cisco cBR-8 Converged Broadband Routers.

For more information, see the [Install and Upgrade Guides](#).



Note If you want to upgrade to one of the Supervisor CPLD versions mentioned in the table, the chassis must have Cisco IOS XE Bengaluru 17.6.1a or later.

Table 6: Firmware Packages and Versions Supported in Cisco IOS XE Bengaluru 17.6.1z1

Internal Name	Component Name	Required Minimum Version	Command
Supervisor CPLD	CBR-CCAP-SUP-160G CPLD	16052011 19071712 (optional)	show platform
	CBR-CCAP-SUP-250G CPLD	170724E0 190717E1 (optional)	show platform
Supervisor ROMMON	CBR-CCAP-SUP-160G ROMMON and CBR-CCAP-SUP-250G ROMMON	16.7(2r)S	show platform
Line Card CPLD	CBR-CCAP-LC-40G CPLD	00000026	show platform diag
DOCSIS 3.1 downstream module Micro	CBR-CCAP-LC-40G Gemini2 Micro	3.1A	show platform diag
DOCSIS 3.1 downstream module FPGA	CBR-CCAP-LC-40G Gemini2 Apollo	4.484F	show platform diag
DPIC Uboot and FPGA	CBR-DPIC-8X10G Firmware	00010001	show platform diag
DPIC 100G Uboot and FPGA	CBR-DPIC-2X100G Firmware	00020006	show platform diag
RF-PROT-PIC Firmware	CBR-RF-PROT-PIC Firmware	00000721	show platform diag

Table 7: Firmware Packages and Versions Supported in Cisco IOS XE Bengaluru 17.6.1z

Internal Name	Component Name	Required Minimum Version	Command
Supervisor CPLD	CBR-CCAP-SUP-160G CPLD	16052011 19071712 (optional)	show platform
	CBR-CCAP-SUP-250G CPLD	170724E0 190717E1 (optional)	show platform
Supervisor ROMMON	CBR-CCAP-SUP-160G ROMMON and CBR-CCAP-SUP-250G ROMMON	16.7(2r)S	show platform
Line Card CPLD	CBR-CCAP-LC-40G CPLD	00000026	show platform diag

Internal Name	Component Name	Required Minimum Version	Command
DOCSIS 3.1 downstream module Micro	CBR-CCAP-LC-40G Gemini2 Micro	3.1A	show platform diag
DOCSIS 3.1 downstream module FPGA	CBR-CCAP-LC-40G Gemini2 Apollo	4.484F	show platform diag
DPIC Uboot and FPGA	CBR-DPIC-8X10G Firmware	00010001	show platform diag
DPIC 100G Uboot and FPGA	CBR-DPIC-2X100G Firmware	00020006	show platform diag
RF-PROT-PIC Firmware	CBR-RF-PROT-PIC Firmware	00000721	show platform diag

Table 8: Firmware Packages and Versions Supported in Cisco IOS XE Bengaluru 17.6.1x

Internal Name	Component Name	Required Minimum Version	Command
Supervisor CPLD	CBR-CCAP-SUP-160G CPLD	16052011 19071712 (optional)	show platform
	CBR-CCAP-SUP-250G CPLD	170724E0 190717E1 (optional)	show platform
Supervisor ROMMON	CBR-CCAP-SUP-160G ROMMON and CBR-CCAP-SUP-250G ROMMON	16.7(2r)S	show platform
Line Card CPLD	CBR-CCAP-LC-40G CPLD	00000026	show platform diag
DOCSIS 3.1 downstream module Micro	CBR-CCAP-LC-40G Gemini2 Micro	3.1A	show platform diag
DOCSIS 3.1 downstream module FPGA	CBR-CCAP-LC-40G Gemini2 Apollo	4.484F	show platform diag
DPIC Uboot and FPGA	CBR-DPIC-8X10G Firmware	00010001	show platform diag
DPIC 100G Uboot and FPGA	CBR-DPIC-2X100G Firmware	00020006	show platform diag
RF-PROT-PIC Firmware	CBR-RF-PROT-PIC Firmware	00000721	show platform diag

Table 9: Firmware Packages and Versions Supported in Cisco IOS XE Bengaluru 17.6.1w

Internal Name	Component Name	Required Minimum Version	Command
Supervisor CPLD	CBR-CCAP-SUP-160G CPLD	16052011 19071712 (optional)	show platform
	CBR-CCAP-SUP-250G CPLD	170724E0 190717E1 (optional)	show platform
Supervisor ROMMON	CBR-CCAP-SUP-160G ROMMON and CBR-CCAP-SUP-250G ROMMON	16.7(2r)S	show platform
Line Card CPLD	CBR-CCAP-LC-40G CPLD	00000026	show platform diag
DOCSIS 3.1 downstream module Micro	CBR-CCAP-LC-40G Gemini2 Micro	3.1A	show platform diag
DOCSIS 3.1 downstream module FPGA	CBR-CCAP-LC-40G Gemini2 Apollo	4.484F	show platform diag
DPIC Uboot and FPGA	CBR-DPIC-8X10G Firmware	00010001	show platform diag
DPIC 100G Uboot and FPGA	CBR-DPIC-2X100G Firmware	00020006	show platform diag
RF-PROT-PIC Firmware	CBR-RF-PROT-PIC Firmware	00000721	show platform diag

Table 10: Firmware Packages and Versions Supported in Cisco IOS XE Bengaluru 17.6.1a

Internal Name	Component Name	Required Minimum Version	Command
Supervisor CPLD	CBR-CCAP-SUP-160G CPLD	16052011 19071712 (optional)	show platform
	CBR-CCAP-SUP-250G CPLD	170724E0 190717E1 (optional)	show platform
Supervisor ROMMON	CBR-CCAP-SUP-160G ROMMON and CBR-CCAP-SUP-250G ROMMON	16.7(2r)S	show platform
Line Card CPLD	CBR-CCAP-LC-40G CPLD	00000026	show platform diag

Determine Firmware Support

Internal Name	Component Name	Required Minimum Version	Command
DOCSIS 3.1 downstream module Micro	CBR-CCAP-LC-40G Gemini2 Micro	3.1A	show platform diag
DOCSIS 3.1 downstream module FPGA	CBR-CCAP-LC-40G Gemini2 Apollo	4.484F	show platform diag
DPIC Uboot and FPGA	CBR-DPIC-8X10G Firmware	00010001	show platform diag
DPIC 100G Uboot and FPGA	CBR-DPIC-2X100G Firmware	00020005	show platform diag
RF-PROT-PIC Firmware	CBR-RF-PROT-PIC Firmware	00000721	show platform diag

Upgrade Cisco cBR-8 to the minimum supported firmware revisions for the Cisco IOS XE Bengaluru 17.6.1a.