Sophos Endpoint Security and Control

Sophos Endpoint Security and Control 10.3

**Sophos Anti-Virus**  
HIPS (Host Intrusion Prevention System)  
Rootkit

**Sophos Behavior Monitoring**  
HIPS  Windows

**Sophos Live Protection**  
Sophos

**Sophos Web Protection**  
Sophos

**Sophos Application Control**  
IP

**Sophos Device Control**

**Sophos Data Control**

**Sophos Web Control**

**Sophos Client Firewall**

**Sophos AutoUpdate**

**Sophos Tamper Protection**  
Sophos Endpoint Security and Control  
Sophos
Sophos Endpoint Security and Control

Sophos Endpoint Security and Control
<table>
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<tr>
<th>Windows</th>
<th>Sophos</th>
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<td>Administrators</td>
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</tr>
<tr>
<td>Power Users</td>
<td>SophosPowerUser</td>
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<tr>
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<td>SophosUser</td>
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**Sophos**

- [ ]

**SophosUsers**

SophosUsers

- Sophos Endpoint Security and Control
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**SophosPowerUsers**

SophosPowerUsers  SophosUsers

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**SophosAdministrators**
Sophos Administrators  Sophos Endpoint Security and Control

SophosAdministrator

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Sophos

Windows Administrators  Sophos  Sophos Endpoint Security and Control

Sophos

1.  Windows

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5.  Sophos
    - SophosAdministrator
    - SophosPowerUser
    - SophosUser

6.  Sophos

Sophos Endpoint Security and Control
- Sophos
SophosAdministrator

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Sophos Anti-Virus
Sophos Endpoint Security and Control

Sophos Anti-Virus

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<th>CD USB</th>
<th>Sophos</th>
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<tbody>
<tr>
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<td>PKLiteLZEXE Diet</td>
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SophosAdministrator

Sophos Endpoint Security and Control

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Sophos Anti-Virus

Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control

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<th>64</th>
</tr>
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</table>
Sophos Anti-Virus Windows
8.3 (8.3-compliant file and folder names)

C:\Program Files\Sophos\Sophos Anti-Virus

C:\Progra~1\Sophos\Sophos~1

C:
\Server\<sharename>\
? *

? file??\.txt file\.txtfile1\.txt file12\.txt file123\.txt

* [.]* [.][]

file.*

*.txt

file*.txt

file\.txt*

file.*txt
MySample.txt.doc = MySample.txt + .doc
Sophos Endpoint Security and Control

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64
Sophos Endpoint Security and Control

Sophos Anti-Virus

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Sophos Endpoint Security and Control

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4. Sophos Anti-Virus

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5. Sophos Anti-Virus

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<td>Sophos Anti-Virus</td>
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6. / (PUA) PUA /PUA

- Sophos PUA
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2. Sophos Anti-Virus
1. HIPS
Sophos Anti-Virus

1. HIPS

(PUA)

Rootkit

SophosAdministrator

rootkit

rootkit
- PKLiteLZEXE Diet

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Windows Vista
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<td>Sophos Anti-Virus</td>
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<td>Delete Sophos</td>
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8. / (PUA)  PUA  /PUA

- Sophos PUA
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SophosAdministrator

1. HIPS

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1. HIPS

2. Sophos Endpoint Security and
1. HIPS

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1. HIPS

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1. HIPS

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1. HIPS

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HIPS

Sophos Endpoint Security and Control
Sophos Behavior Monitoring  Windows “”
Sophos (HIPS)
Sophos Endpoint Security and Control

SophosAdministrator

1.  > HIPS  > HIPS  > >

2.
Sophos Endpoint Security and Control

SophosAdministrator

1.  > HIPS  > HIPS  > >
2.  
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Sophos Administrator

1. > HIPS > HIPS >
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Sophos Endpoint Security and Control

SophosAdministrator

1. > HIPS > HIPS

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4.
Sophos Live Protection

Sophos Live Protection  Sophos Anti-Virus

Sophos Live Protection Sophos

Sophos Live Protection

- **Live Protection**
  
  (IDE) Sophos

  SophosLabs

- **Sophos**

  Sophos  Sophos

  Sophos
Sophos Live Protection

Sophos Endpoint Security and Control

SophosAdministrator  Sophos Live Protection

1.  > HIPS  > HIPS  >  > Sophos Live Protection
2.  Sophos Live Protection
   ■  Sophos Live Protection
   ■  Sophos Sophos Live Protection
Sophos
Sophos Live Protection

Sophos

Sophos Live Protection

- Sophos
- 
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- “/”

- HIPS HIPS
Sophos Web Protection

Sophos Web Protection  Sophos  URL

- IE
- Firefox
- Google Chrome
- Safari
- Opera
1. > HIPS > HIPS > >
2. 
3. 
Sophos Endpoint Security and Control

SophosAdministrator

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1.  > HIPS  > HIPS  > >
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Sophos Endpoint Security and Control

Sophos Anti-Virus
1. > HIPS > HIPS > >

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Sophos Endpoint Security and Control

Sophos Anti-Virus

1. > **HIPS** > **HIPS** > >
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Sophos Endpoint Security and Control

1. > HIPS > HIPS > >
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Sophos Endpoint Security and Control

Sophos URL Sophos

1.  > HIPS  > HIPS  > >
2.
3.
4.  IP
### Quarantine manager

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Details</th>
<th>Available actions</th>
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<tbody>
<tr>
<td>Virus/Software</td>
<td>ECAR-Ant-Test</td>
<td>CtrlDocuments and Settings{more...}</td>
<td>Clean up</td>
</tr>
</tbody>
</table>

1. Select all
2. De-select all
3. Clear form
4. Perform action

**Sophos**

**rootkit**

**rootkit**
1. HIPS

2. / Sophos Anti-Virus / Sophos Anti-Virus Sophos

rootkit "" rootkit
1. HIPS

2.

Sophos Anti-Virus    Sophos Anti-Virus    Sophos

rootkit ""    rootkit
- Sophos Anti-Virus
- Windows Administrators  SophosAdministrator
1. HIPS

2. Sophos Anti-Virus  Sophos Anti-Virus  Sophos

rootkit ""
Sophos Anti-Virus
1. HIPS

2. Sophos Anti-Virus   Sophos Anti-Virus   Sophos
Sophos Anti-Virus
1. HIPS

2. Sophos Anti-Virus

Sophos Anti-Virus  Sophos
/ Sophos /
Sophos Anti-Virus

Sophos Anti-Virus  Sophos
Sophos Anti-Virus  Sophos
1. **HIPS**

2. Sophos Anti-Virus  Sophos
Sophos Endpoint Security and Control

Sophos Anti-Virus

1. > HIPS > HIPS > >
2.

Sophos Anti-Virus

Sophos Anti-Virus

Windows 8
**Sophos Endpoint Security and Control**

**Sophos Anti-Virus**

1. > **HIPS** > **HIPS** > >
2. 

**Sophos Anti-Virus**

<table>
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<tr>
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<td>“”</td>
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SNMP

Sophos Endpoint Security and Control

Sophos Anti-Virus  SNMP

1.  > HIPS  > HIPS  >
2.  SNMP

SNMP

Sophos Anti-Virus  SNMP

Sophos Anti-Virus  SNMP

SNMP

IP

SNMP

SNMP  SNMP
Sophos Anti-Virus  Windows

1.  > HIPS  > HIPS  > >
2.

Sophos Anti-Virus  Windows

Sophos Anti-Virus  Sophos Anti-Virus

Sophos Anti-Virus
<table>
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<th>Windows Vista, Windows 7, Windows 8, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012</th>
<th>C:\ProgramData\Sophos\Sophos Anti-Virus\logs\SAV.txt</th>
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</thead>
<tbody>
<tr>
<td>Windows</td>
<td>C:\Documents and Settings\All Users\Application Data\Sophos\Sophos Anti-Virus\logs\SAV.txt</td>
</tr>
</tbody>
</table>

1. > HIPS > HIPS > 

2.
HIPS   HIPS
Sophos Endpoint Security and Control
(short range)
- USB PC
- CD-ROM/DVD/Blu-ray
- USB
- Wi-Fi 802.11
(short range)

- 
- (IrDA
- MTP/PTP
Sophos Endpoint Security and Control

Sophos Administrator CD

1.
2. Sophos Device Control
1.

2.

3.
Sophos Endpoint Security and Control

SophosAdministrator

1.

2. Sophos Data Control
- DOS
1.
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   ■
   ■
   ■
3.
Sophos Web Control

Sophos Endpoint Security and Control

SophosAdministrator
Sophos Endpoint Security and Control

SophosAdministrator

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Sophos Endpoint Security and Control

- **ICMP**
- **LAN**
- **FTP**
SophosAdministrator

Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control

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FTP

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FTP

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FTP

Sophos

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LAN

LAN

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3. LAN
   - LAN LAN
   - IP

   Windows 8

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5. LAN
LAN LAN
LAN

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3. LAN
   - LAN
   - LAN
   - IP

   Windows 8

4.

5. LAN LAN NetBIOS LAN

LAN (LAN)

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LAN  LAN
NetBIOS

1. LAN (LAN) NetBIOS
2. “” NetBIOS

LAN (LAN)

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LAN  LAN

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IPv6

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- Windows 7 IPv6
- Windows 8 IPv6
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- Windows 7
- Windows 8
Windows 8 “Sophos Anti-Virus HIPS”

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3. (32)
- 64 Windows
ICMP

Internet (ICMP) ICMP

ICMP ICMP ICMP

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   - Windows 7
   - Windows 8 ICMP
IP  TCP/IP
ping
IPv4
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Windows 8
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Sophos Client Firewall

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Sophos

LAN

LAN

- NetBIOS

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<td>138</td>
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<tr>
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LAN

1. LAN NetBIOS

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- Windows 8
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   - TCP
   - UDP

   Windows 8

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- TCP
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■ TCP
■ UDP

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Windows 8 “Sophos Anti-Virus HIPS”

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Sophos Client Firewall

- VPN
- ISP
1. MAC

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DNS

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■

Sophos Endpoint Security and Control
Both

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Sophos Client Firewall

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HTTP 80

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CSV

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CSV

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Sophos AutoUpdate  10  60
Sophos AutoUpdate  60

Sophos Endpoint Security and Control
Sophos Endpoint Security and Control

Sophos Anti-Virus

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Sophos Sophos AutoUpd
Sophos AutoUpdate  Sophos Anti-Virus

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   Sophos  Sophos
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Sophos AutoUpdate

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Sophos AutoUpdate

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Sophos AutoUpdate
Sophos AutoUpdate

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Sophos AutoUpdate
Sophos Anti-Virus

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“Sophos Anti-Virus” 4
**SophosUsers**  **SophosPowerUsers**

SophosUser  SophosPowerUser

SophosUsers  SophosPowerUsers

Sophos  [Sophos](#)

**SophosAdministrators**

SophosAdministrator

Sophos Endpoint Security and Control

SophosAdministrator

- ""
- ""
- "" Sophos Endpoint Security and Control Sophos Anti-Virus Sophos Client Firewall Sophos AutoUpdate Sophos Remote Management System
- "" Sophos SafeGuard Disk Encryption

SophosAdministrator

SophosAdministrators
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8
Sophos Endpoint Security and Control

SophosAdministrator

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Sophos Endpoint Security and Control

SophosAdministrator

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SophosAdministrator

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Sophos Endpoint Security and Control

SophosAdministrator

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Sophos

Sophos Administrator "" Sophos

- Sophos Endpoint Security and Control
- Sophos Anti-Virus
- Sophos Client Firewall
- Sophos AutoUpdate
- Sophos Remote Management System
- Sophos SafeGuard Disk Encryption

Sophos

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- Sophos
- SophosAdministrator
- **Sophos Endpoint Security and Control**
- **Sophos Endpoint Security and Control**
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Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control

Sophos Endpoint Security and Control

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Sophos Anti-Virus
Sophos Anti-Virus
Sophos Anti-Virus ""
Sophos Anti-Virus

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CD
NTFS

NTFS  Windows XP
1. Sophos Anti-Virus
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Sophos Anti-Virus
Sophos Anti-Virus
Sophos Anti-Virus
(PUA)

Sophos Anti-Virus  PUA
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Sophos Endpoint Security and Control

Sophos Anti-Virus

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Sophos
| Windows Anti-Virus | Sophos Anti-Virus | Sophos |
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Sophos Anti-Virus
Sophos

Sophos

Sophos
- HIPS
Sophos Endpoint Security and Control
1. Windows

2.
   - HIPS     Sophos Anti-Virus
   - Sophos Client Firewall Manager
“Sophos Client Firewall”
Windows Administrators

1. Windows

2. **Sophos Client Firewall** Manager

3. “” C:\Documents and Settings\All Users\Application Data\Sophos\Sophos Client Firewall\logs

“”

4. op_data.mdb

5. “” **Sophos Client Firewall** Manager
(adware and PUAs)
  PUA (Potentially Unwanted Application)

(application rule)

(Authorization manager)

(blocked)
  ICMP

(buffer overflow detection)

(checksum)

(PUA)

(CCL) (Content Control List (CCL))
  SophosLabs

(content rule)
  (destination)

(controlled application)

(custom rule)

  Webmail
ICMP
"Internet Control Message Protocol" (Internet) IP

ICMP (ICMP settings)
ICMP

(instant messaging)
MSN
(learning dialog)

(log cleanup settings)

(log viewer)

(match)

NetBIOS/
    /Network Basic Input/Output System I/O
    Windows (LAN) NetBIOS

(network protocol)

(non-interactive mode)

(normal scanning)

(on-access scan)
    Sophos Anti-Virus

(on-demand scan)

(primary configuration)

(process settings)
(rawsocket)

(right-click scan)

rootkit

(scanning error)

(scheduled scan)

(secondary configuration)

Sophos Live Protection
Sophos

(stateful inspection)
TCP and UDP

(storage device)
USB PC CD/DVD SanDisk
Cruzer EnterpriseKingston Data TravellerIronKey Enterprise
IronKey Basic USB
(suspicious behavior detection)

(suspicious file)

(system memory)

(system rule)

(tamper protection)

Sophos Endpoint Security and Control

Sophos

(threat event)

(tree view)

(true file type)

(trusted application)

(unidentified virus)

(unknown traffic)

(IDE) (virus identity file (IDE))

Sophos Anti-Virus

IP (Voice over IP)

IP

(working mode)
Sophos

- community.sophos.com/ SophosTalk
- www.sophos.com/en-us/support.aspx Sophos
- www.sophos.com/en-us/support/documentation/
- supportasia@sophos.com Sophos
Apache

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ICU

ICU version 1.8.1 or later

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