

Custom Event Properties for IBM Z/OS

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Custom Event Properties for IBM Z/OS

7.4.1

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Juniper Networks hardware and software products are Year 2000 compliant. Junos OS has no known time-related limitations through the year 2038. However, the NTP application is known to have some difficulty in the year 2036.

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Use IBM z/OS Custom Properties Content Extension to closely monitor your IBMz/OS deployment.

NOTE: To avoid content errors in this content extension, keep the associated DSMs up to date. DSMs are updated as part of the automatic updates. If automatic updates are not enabled, download the most recent version of the associated DSMs from <https://support.juniper.net/support/downloads/>.

Documentation and Release Notes

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <https://www.juniper.net/documentation/>.

If the information in the latest release notes differs from the information in the documentation, follow the product Release Notes.

Juniper Networks Books publishes books by Juniper Networks engineers and subject matter experts. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration. The current list can be viewed at <https://www.juniper.net/books>.

Documentation Conventions

[Table 1 on page v](#) defines notice icons used in this guide.

Table 1: Notice Icons

Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.
	Tip	Indicates helpful information.
	Best practice	Alerts you to a recommended use or implementation.

[Table 2 on page v](#) defines the text and syntax conventions used in this guide.

Table 2: Text and Syntax Conventions

Convention	Description	Examples
Bold text like this	Represents text that you type.	To enter configuration mode, type the configure command: <code>user@host> configure</code>
Fixed-width text like this	Represents output that appears on the terminal screen.	<code>user@host> show chassis alarms</code> No alarms currently active
<i>Italic text like this</i>	<ul style="list-style-type: none"> • Introduces or emphasizes important new terms. • Identifies guide names. • Identifies RFC and Internet draft titles. 	<ul style="list-style-type: none"> • A <i>policy term</i> is a named structure that defines match conditions and actions. • <i>Junos OS CLI User Guide</i> • <i>RFC 1997, BGP Communities Attribute</i>

Table 2: Text and Syntax Conventions (continued)

Convention	Description	Examples
<i>Italic text like this</i>	Represents variables (options for which you substitute a value) in commands or configuration statements.	Configure the machine's domain name: [edit] root@# set system domain-name domain-name
Text like this	Represents names of configuration statements, commands, files, and directories; configuration hierarchy levels; or labels on routing platform components.	<ul style="list-style-type: none"> To configure a stub area, include the stub statement at the [edit protocols ospf area area-id] hierarchy level. The console port is labeled CONSOLE.
< > (angle brackets)	Encloses optional keywords or variables.	stub <default-metric metric>;
(pipe symbol)	Indicates a choice between the mutually exclusive keywords or variables on either side of the symbol. The set of choices is often enclosed in parentheses for clarity.	broadcast multicast (string1 string2 string3)
# (pound sign)	Indicates a comment specified on the same line as the configuration statement to which it applies.	rsvp { # Required for dynamic MPLS only
[] (square brackets)	Encloses a variable for which you can substitute one or more values.	community name members [community-ids]
Indentation and braces ({ })	Identifies a level in the configuration hierarchy.	[edit] routing-options { static { route default { nexthop address; retain; } } }
; (semicolon)	Identifies a leaf statement at a configuration hierarchy level.	

GUI Conventions

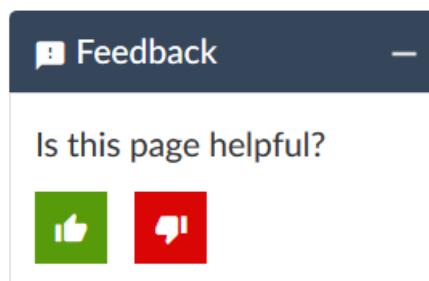
Table 2: Text and Syntax Conventions (*continued*)

Convention	Description	Examples
Bold text like this	Represents graphical user interface (GUI) items you click or select.	<ul style="list-style-type: none"> • In the Logical Interfaces box, select All Interfaces. • To cancel the configuration, click Cancel.
> (bold right angle bracket)	Separates levels in a hierarchy of menu selections.	In the configuration editor hierarchy, select Protocols>Ospf .

Documentation Feedback

We encourage you to provide feedback so that we can improve our documentation. You can use either of the following methods:

- Online feedback system—Click TechLibrary Feedback, on the lower right of any page on the [Juniper Networks TechLibrary](#) site, and do one of the following:



- Click the thumbs-up icon if the information on the page was helpful to you.
- Click the thumbs-down icon if the information on the page was not helpful to you or if you have suggestions for improvement, and use the pop-up form to provide feedback.
- E-mail—Send your comments to techpubs-comments@juniper.net. Include the document or topic name, URL or page number, and software version (if applicable).

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active Juniper Care or Partner Support Services support contract, or are

covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <https://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <https://www.juniper.net/customers/support/>
- Search for known bugs: <https://prsearch.juniper.net/>
- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://kb.juniper.net/>
- Download the latest versions of software and review release notes:
<https://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications:
<https://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum:
<https://www.juniper.net/company/communities/>
- Create a service request online: <https://myjuniper.juniper.net>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool:
<https://entitlementsearch.juniper.net/entitlementsearch/>

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit <https://myjuniper.juniper.net>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see
<https://support.juniper.net/support/requesting-support/>.

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IBM Z/OS Custom Properties Content Extension

V1.1.3

The following table shows the custom properties that are new or updated in IBM z/OS Custom Properties Content Extension V1.1.3.

The following table shows the custom properties that are updated in IBMz/OS Custom Properties Content Extension V1.1.3.

Table 3: Custom Properties Updated in IBM Z/OS Custom Properties Content Extension V1.1.3

Name	Optimized	Capture Group	Regex
Data key label in ICSF	No	1	keypol=([^\t]+)
IKE Tunnel encryption chaining	No	1	ikechn=([^\t]+)
IKE Tunnel encryption family	No	1	ikealg=([^\t]+)
IKE Tunnel encryption key length	No	1	ikekeylen=([^\t]+)
IPSec Tunnel encryption chaining	No	1	ipsecchn=([^\t]+)
IPSec Tunnel encryption family	No	1	ipsecalg=([^\t]+)
IPSec Tunnel encryption key length	No	1	ipseckeylen=([^\t]+)
SA Active Connections Begin	No	1	activeBeg=([^\t]+)
SA Active Connections End	No	1	activeEnd=([^\t]+)
SA Connections Begin	No	1	connsBeg=([^\t]+)
SA Connections End	No	1	connsEnd=([^\t]+)
SA Partial Connections Begin	No	1	partialBeg=([^\t]+)
SA Partial Connections End	No	1	partialEnd=([^\t]+)

Table 3: Custom Properties Updated in IBM Z/OS Custom Properties Content Extension V1.1.3 (continued)

Name	Optimized	Capture Group	Regex
SA Short Connections Begin	No	1	shortBeg=([^\t]+)
SA Short Connections End	No	1	shortEnd=([^\t]+)
SMS Data Class	No	1	dataclas=([^\t]+)
SMS Management Class	No	1	mgmtclas=([^\t]+)
SMS Storage Class	No	1	storclas=([^\t]+)
SSH Inbound encryption chaining	No	1	sshIchn=([^\t]+)
SSH Inbound encryption family	No	1	sshIalg=([^\t]+)
SSH Inbound encryption key length	No	1	sshIkeylen=([^\t]+)
SSH Outbound encryption chaining	No	1	sshOchn=([^\t]+)
SSH Outbound encryption family	No	1	sshOalg=([^\t]+)
SSH Outbound encryption key length	No	1	sshOkeylen=([^\t]+)
TLS Client Cert	No	1	tlSCCertSig=([^\t]+)
TLS encryption chaining mode	No	1	tlSchn=([^\t]+)
TLS encryption family	No	1	tlSalg=([^\t]+)
TLS encryption key length	No	1	tlSkeylen=([^\t]+)
TLS key exchange method	No	1	tlSExAlg=([^\t]+)
TLS message digest	No	1	tlMsgAuth=([^\t]+)
TLS or SSL protocol level	No	1	tlProtVer=([^\t]+) TLsproto=([^\t]+)

Table 3: Custom Properties Updated in IBM Z/OS Custom Properties Content Extension V1.1.3 (continued)

Name	Optimized	Capture Group	Regex
TLS Server Cert	No	1	tlsSCertSig=([^\t]+)
Transport Layer Connection ID	No	1	saConnId=([^\t]+)

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IBM Z/OS Custom Properties Content Extension V1.1.2

The **Action** custom property was assigned a new ID. Delete the **Action** custom property before you install V1.1.2.

The following table shows the custom properties that are updated in IBMz/OS Custom Properties Content Extension V1.1.2.

Table 4: Custom Properties Updated in IBM Z/OS Custom Properties Content Extension V1.1.2

Name	Optimized	Regex
Access Intent	Yes	intent=([^\t]+)

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IBM Z/OS Custom Properties Content Extension V1.1.1

The following table shows the custom properties that are removed in IBMz/OS Custom Properties Content Extension V1.1.1.

Table 5: Custom Properties Removed in IBM Z/OS Custom Properties Content Extension V1.1.1

Name	Regex
SMF Record Type	LEEF:[^\[]+\ IBM\ DB2\ [^\[]+\ \([^\[]+\)\
Subsystem name	subsys=([^\t]+)

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IBM Z/OS Custom Properties Content Extension V1.1.0

The following table shows the custom properties that are new or updated in IBMz/OS Custom Properties Content Extension V1.1.0.

Table 6: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.1.0

Name	Regex
Cipher Suite ID	tlsNegCipher=([^\t]+)
Data Set Key Algorithm	keyalg=([^\t]+)
Data Set Key Label	keylbl=([^\t]+)
Data Set Key Length	keylen=([^\t]+)
IP Connection ID	saConnId=([^\t]+)
IP Protocol	IPproto=([^\t]+)
Job name	jobname=([^\t]+)
SMF Record Type	LEEF:[^\t]+\\ IBM\\z\\OS\\[^\t]+\\ ([^\t]+)\\ LEEF:[^\t]+\\ IBM\\RACF\\[^\t]+\\ ([^\t]+)\\ LEEF:[^\t]+\\ IBM\\DB2\\[^\t]+\\ ([^\t]+)\\ LEEF:[^\t]+\\ IBM\\CICS\\[^\t]+\\ ([^\t]+)\\
Stack	stack=([^\t]+)
Subsystem name	sysname=([^\t]+)
Sysplex Name	sysplex=([^\t]+)
SNA terminal name	LU\s([a-zA-Z0-9]\w+) terminal=([^\t]+)
TLS encryption family	tlSalg=([^\t]+)
TLS encryption chaining mode	tlSchn=([^\t]+)
TLS encryption key length	tlSkeylen=([^\t]+)
TLS message digest	tlSMsgAuth=([^\t]+)
TLS or SSL protocol level	tlSProtVer=([^\t]+)
TLS key exchange method	tlSKexAlg=([^\t]+)

Table 6: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.1.0 (continued)

Name	Regex
TLS Client Cert	tlsCCertSig=([^\t]+)
Bypass request	bypass_req=([^\t]+)

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IBM Z/OS Custom Properties Content Extension V1.0.1

The following table shows the custom properties that are new or updated in IBMz/OS Custom Properties Content Extension V1.0.1.

Table 7: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.0.1

Name	Regex
Action	action=([^\t]+)
Key label	keylabel=([^\t]+)

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IBM Z/OS Custom Properties Content Extension V1.0.0

The following table shows the custom properties that are new or updated in IBMz/OS Custom Properties Content Extension V1.0.0.

Table 8: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.0.0

Name	Regex
Event sum	sum=([^\t]+)
Access intent	intent=([^\t]+)
Catalog	catalog=([^\t]+)
Command	cmd=([^\t]+)
Completion code	compCode=([^\t]+)
Completion status	compStat=([^\t]+)
Data set name	dsn=([^\t]+)
DD name	dd=([^\t]+)
Descriptor	desc=([^\t]+)
Function code	function=([^\t]+)
JES line	line=([^\t]+)
JES remote terminal	line rmt=([^\t]+)
Job number	jobid=([^\t]+)
Member name	member=([^\t]+)
NJE node name	node=([^\t]+)
Old data set name	oldda=([^\t]+)
Person name	name=([^\t]+)

Table 8: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.0.0 (continued)

Name	Regex
Physical DASD box serial	box=([^\t]+)
Port of entry	poe=([^\t]+)
Private / owned data set	own=([^\t]+)
Program	program=([^\t]+)
RACF profile	prof=([^\t]+)
SAF class	class=([^\t]+)
SAF resource name	res=([^\t]+)
SNA terminal name	terminal=([^\t]+)
Step name	stepname=([^\t]+)
Submitted by	submitby=([^\t]+)
System / job	job=([^\t]+)
UNIX path name	path=([^\t]+)
Volume serial	vol=([^\t]+)
System SMF id	job=([^\t]{4})
Job name	job=[^\t]{29}([^\t]{8})
Resource sensitivity	sens=([^\t]+)
Sensitive user privileges	usrPriv=([^\t]+)
Sensitive groups	usrGroups=([^\t]+)
Cipher	cipher=([^\t\+])
Allowed cipher priority order	cipherSuite=([^\t\+])
FIPS 140 compliance	FIPS140=([^\t\+])

Table 8: Custom Properties in IBM Z/OS Custom Properties Content Extension V1.0.0 (continued)

Name	Regex
Job tag	job=([^\t\+])
TLS RFC level	TLSlvl=([^\t\+])
TLS or SSL protocol level	TLSproto=([^\t\+])

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