

DEFINE EVENT

The DEFINE EVENT command permits you to establish actions that are triggered when specified events occur on your VSE system.

Syntax: `DEFine Evt ID=id [,ACTion={Lpr|Ftp|EMAIL}] [,CLass=X]
[,Queue={Lst|Pun}] [,REtry=1] [,RETRY_Time=45s]
[,HOSTname={USERinfo|DEST|ROOM|DEPT|BLDG}] [,SINGle={Yes|No}]
[,USERid=$EVENT] [,PASSword=$EVENT] [,PRIOrity={Yes|No}]
[,ORDEr={Yes|No}] [,POWERSYSid=sysid] [,SCRIPTtype=L]
[,NULLfile={Skip|Process}] [,FCBPrefix=string4]`

- Arguments:
- ID= - A unique name to identify the event.
 - ACTion= - Determines what action will be taken for this event.
 - Lpr - Event processing will follow the LPR protocol. The means that an LP Daemon must be provided on the remote host. This is the default.
 - Ftp - Event processing will follow the FTP protocol. The means that an FTP Daemon must be provided on the remote host.
 - Email - Event processing will follow the SMTP protocol. The means that an SMTP Daemon must be provided to process the outgoing email.
 - CLass= - The POWER class in which the event will occur. The default class is "X".
 - FCBPrefix= - If supplied, this 1- to 4- character value is used in a "SET FCBPREFIX=" command passed to the Email and LPR clients. FTP events are unaffected. The default is that no "SET FCBPREFIX=" command is issued.
 - HOSTname= - Specifies the JECL field to be inspected for the remote host's IP address or the name of a script file. If omitted, the default is the value specified in the JECL "USER=" field.

Allowable values are: USERinfo, DEST, ROOM, DEPT, and BLDG.

For ACTION=FTP, the HOSTNAME is ignored and the DEST field is always used. This will be modified at some future date to conform to the other clients. For this reason, it is recommended that all ACTION=FTP events explicitly specify HOSTNAME=DEST
 - NULLfile= - This parameter specifies how empty (no records) POWER files are to be handled.
 - Skip - The file will NOT be processed and will be set to DISP=Y.
 - Process - The file will be processed normally. Depending on the type or transfer, destination, and other factors, this may result in other errors occurring. Default.
 - Queue= - Keyword. This is the POWER queue to be monitored.
 - Lst - The POWER LST queue will be monitored. This is the default.
 - Pun - The POWER PUN queue will be monitored.
 - ORDEr= - This setting determines if reports are to be processed in the order that they were produced.
 - Yes - This event will consider reports for processing in the order they were produced. Default
 - No - Automation processing will select events for processing without regard to the order that they were produced.
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DEFINE EVENT *(continued)*

- PASSword= - A 1- to 16-character uppercase password that will be used to logon to the local FTP or LPR clients. The default is "\$EVENT".
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- POWERSYSid= - If you operate in a shared-spool environment, then you must specify the POWER SYSID of your "local" system. Since Automation processing cannot access files that belong to systems other than the local one, this parameter limits what the event "sees". If you specify a value in a non-shared environment, or if you specify an incorrect value, then no automation processing will occur for this event.
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- PRIOrity - This field indicates whether or not the value of the JECL PRI= field is to be used in determining the order of event processing.
Yes - The PRI value will be considered when determine the order in which events are selected for processing. Default.
No - The PRI value will be ignored.
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- REtry= - Numeric, 0 through 9.

If the remote server refuses a connection with the automation Daemon, the attempt is retried the specified number of times before the operation is abandoned and the listing placed in DISP=Y status. The default is 1.
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- RETRY_Time= - Numeric, 0 through 99999, 300th of a second

Specifies the time interval between retry attempts for a refused connection. The default is 13,500 (45 seconds).
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- SCRIPTtype= - This is the file name extension that will be added to the script name before fetching it from a library. This value follows normal Librarian rules and can be from 1 to 8 characters in length. The default is "L".
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- SINGle= - Yes - The LPR output will be single-spaced lines.
No - LPR output will be formatted to simulate the instructions carried in the report's carriage control field. This is the default.

This parameter affects LPR and EMAIL operations only. FTP is unaffected.
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- USErid= - A 1- to 16-character uppercase user ID that will be used to logon to the local FTP or LPR client. The default is "\$EVENT".
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Example:

DEFINE EVENT (continued)

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IPN237I set auto_time=1500
IPN268I AUTO_TIME now set to 1500 300th sec

IPN237I set max_ftp=3
IPN268I MAX_FTP now set to 3

IPN237I define event,id=autoftp1,type=power,queue=lst,class=x,action=ftp
IPN237I define event,id=autoftp2,type=power,queue=pun,class=x,action=ftp
IPN237I define event,id=autolpr1,type=power,queue=lst,class=y,action=lpr, -
IPN237I     hostname=dest
TCP900I Startup ClientD PowerSysid:N PnetNodeId: Addr:00633050

IPN237I query events
IPN253I << TCP/IP Events >>
IPN587I Event Pause Interval: 1500 (5 Seconds)
IPN273I Maximum LPR Events: 5 Current Events: 0
IPN273I Maximum FTP Events: 3 Current Events: 0
IPN273I Maximum Email Events: 1 Current Events: 0
IPN426I Event ID: AUTOLPR1
IPN428I Class: Y, Queue: LST, Action: LPR, POWER SYSID:
IPN427I Priority: Yes, Order: Yes, Script: L
IPN429I Host field: DEST, User ID: $EVENT, Single: N
IPN430I Action: LPR, Retries: 1, Time: 45 sec
IPN426I Event ID: AUTOFTP2
IPN428I Class: X, Queue: PUN, Action: FTP, POWER SYSID:
IPN427I Priority: Yes, Order: Yes, Script: L
IPN429I Host field: USER, User ID: $EVENT, Single: N
IPN430I Action: FTP, Retries: 1, Time: 45 sec
IPN426I Event ID: AUTOFTP1
IPN428I Class: X, Queue: LST, Action: FTP, POWER SYSID:
IPN427I Priority: Yes, Order: Yes, Script: L
IPN429I Host field: USER, User ID: $EVENT, Single: N
IPN430I Action: FTP, Retries: 1, Time: 45 sec
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DEFINE EVENT (continued)

- Notes:
- LPR is a spooling protocol. This means that the remote Daemon must accept the entire transmission and store it in some manner. Some printers pretend to be Daemons without sufficient capacity to accept and buffer an entire transmission. When the printer runs out of paper or its buffer is exhausted, it either closes its transmission window (and LPR hangs until it can complete the transmission) or it simply stops acknowledging our transmissions. In the latter case, LPR eventually times out and the error recovery procedures are performed.
 - According to the published standards for LPR/LPD, if a transmission fails for any reason, retransmission starts at the beginning of the file.
 - If a remote LPD refuses a connection, it is considered to be a communications error and error recovery procedures are initiated.
 - To prevent degradation of service to other network users, auto LPR is single-threaded. This is because a properly configured LP Daemon accepts data as fast as it can be transmitted. Concurrent LPR operations run the risk of swamping a physical network. See the SINGLEDEST command.
 - Pseudo LPD devices that cannot speedily and reliably receive complete transmissions can seriously reduce throughput.
 - Any report that fails to process after the requisite retries have been made is set to DISP=Y. This prevents continuous reprocessing of the same file.
 - See the *TCP/IP for VSE User's Guide* for more information about the DEFINE EVENT command, the use of the automatic FTP client, and the use of the automatic LPR client and email.
 - Be sure that the USERID and PASSWORD have been created with DEFINE USER and that the entry has sufficient authority to use either the FTP or LPR clients, as appropriate (email does not currently require this).
 - If a userid/password is required by POWER for spool access, then it can be specified by the "SET POWERUSERID" and "SET POWERPASSWORD" commands.
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Related	DEFINE USER	- Create a user ID and password.
Commands:	DELETE EVENT	- Terminate monitoring of a POWER class.
	FLUSH	- Terminate all processing with a specific remote host.
	QUERY EVENTS	- Displays the status of automation processing.
	SET AUTO_TIME	- Determines the interval for automation to check the POWER queues.
	SET MAX_EMAIL_EVENTS	- Establishes the maximum number of simultaneous Email events for Automation processing.
	SET MAX_FTP_EVENTS	- Establishes the maximum number of simultaneous FTP events for Automation processing.
	SET MAX_LPR_EVENTS	- Establishes the maximum number of simultaneous LPR events for Automation processing.
	SET POWERPASSWORD	- Establish the password for POWER access.
	SET POWERUSERID	- Establish the user ID for POWER access.
	SINGLEDEST	- Controls Automation multi-threading for events with the same destination host.
