













IBM Software Grou	p   Enterprise	Networking and Transformation Solutions	IBM.
D NET, RTPS enhar	ncement	ts	
<ul> <li>D NET RTPS command enhanced to ad LIST=DETAIL option         <ul> <li>Default</li> <li>Displays essentially the same inf</li> <li>New message IST20841 replace</li> <li>Shows number of displayed</li> <li>Shows the total number of R</li> <li>IST14541 count RTP(S) DIS</li> <li>IST20841 count RTP(S) DIS</li> <li>IST20841 count OF total M</li> <li>LIST=SUMMARY option</li> <li>Provides a summary of the matcl</li> </ul> </li> <li>D NET, RTPS, FIRSTCP=NETA.SSCP2E IST20751 DISPLAY ACCEPTED</li> <li>IST20751 DISPLAY TYPE = RTPS</li> <li>IST20751 DISPLAY TYPE SUMMARY</li> <li>IST20751 DISPLAY TYPE SUMMARY</li> <li>IST20771 CPSVCMG PIPES</li> <li>IST20791 IO-JU PIPES</li> <li>IST20811 CONGESTED PIPES</li> <li>IST20811 CONGESTED PIPES</li> <li>IST20811 SESSIONS</li> <li>IST3141 END</li> </ul>	dd ormation as curre is message IST1: RTP pipes as we SPLAYED ATCHING RTP F hing RTP pipes. A, LIST=SUMMARY INFORMATION = 5 = 2 = 1 = 2 = 0 = 0 = 0 = 4	ent display 4541 in the output. ell as the number of matching RTP pipes. atched the display criteria when the output was truncated due to MAX limitation: PIPES DISPLAYED	5.
		© 2005 IE	BM Corporation







IBM Software Group   Enterprise Networking and Transformation Solutions	IBM.
DISPLAY EEDIAG command syntax - REXMIT	
Display Enterprise Extender connections that meet or exceed a specified retransmission threshold:	
>>DISPLAY NET,EEDIAG,REXMIT=retransmission_rate_percentage>	
LIST=SUMMARY_ >	
,MAX=lesser_of_20_or_DSPLYDEF_value> >	
>><  EEDIAG Command Filters	
retransmission_rate_percentage specifies that only EE connections that have a retransmission rate equal to or exceeding the specified percentage should be displayed.	
© 2005 IBM	Corporation

IBM Software Group   Enterprise Networking and Transformation Solutions	IBM.
DISPLAY EEDIAG command syntax - SRQRETRY	
Display Enterprise Extender connections that meet or exceed a specified SRQRETRY threshold:	
>>DISPLAY NET,EEDIAG,SRQRETRY= <i>retries</i> >  _SRQRETRY=*]	
LIST=SUMMARY	
MAX=lesser_of_20_or_DSPLYDEF_value>	
>><    EEDIAG Command Filters	
<i>retries</i> specifies that only EE connections that have had an LDLC signal retransmitted <i>retries</i> times or more prior to receiving a response should be displayed.	
© 2005 IB1	A Corporation

IBM Software Group   Enterprise Networking and Transformation Solutions	IBM.
DISPLAY EEDIAG command syntax - filters	
EEDIAG command filters:	
Limit the D EEDIAG command scope to one EE connection identified by LINE or PU name. 	
Limit the D EEDIAG command scope to EE connections identified by IPADDR.	
Limit the D EEDIAG command scope to EE connections identified by HOSTNAME.	
© 2005	BM Corporation



	IBM Software Group   Enterprise Networking and Transformation Solutions	IBM.
E	nterprise Extender inactivity flows - notes	
	Enterprise Extender inactivity example:	
	Assume the following values: LIVTIME = 15 SRQTIME = 15 SRQRETRY = 3	
N O	If an EE connection is not receiving data from the partner for 15 seconds (LIVTIME), VTAM will send a test frame to test the connection. If the test does not receive a response within 15 seconds (SROTIME), VTAM will repeat this up to 3 more times (SRORETRY). If after the third retry attempt no response has been received, the EE connection is disconnected. VTAM uses the following formula: LIVTIME + (SROTIME ' (SRORETRY+1)). In this example it would take roughly 75 seconds to disconnect the EE connection. See figure on previous page for the Enterprise Extender inactivity flows.	
T E	a) Initial LIVTIME interval expires and no inbound HPR traffic is detected by this EE endpoint during this 15 second interval. b) The Logical Data Link Control (LDLC) layer sends a TEST request to the EE partner to see if the partner is still there. This is the initial TEST, which is not considered a retry. The LIST=DETAIL output for the D EEDIAG,SRQRETRY command will display the initial test as attempt number zero in message IST20741.	
S	<ul> <li>c) After each TEST request is sent, VTAM will wait a period of time equal to the SRQTIME value (15 seconds in this example).</li> <li>d) No response is received from the partner within the SRQTIME interval. The LDLC layer sends another TEST request. This is considered the first retry attempt up to a maximum of SRQRETRY value (3 retries for this example).</li> <li>o) After cash TEST request is cash. VTAM will writ a credit of time equal to the SRQTIME value (15 seconds in this example).</li> </ul>	
	c) Are each 1201 request is sent, or new with wat a period of unite equal to the original value (1) seconds in this example). f) No response is received from the partner within the SRQTIME interval. The LDLC layer sends another TEST request. This is considered the second retry attempt up to a maximum of SRQETERY value (3) retries for this example).	
	g) After each TEST request is sent, VTAM will wait a period of time equal to the SRATIME value (15 seconds in this example). h) No response is received from the partner within the SRQTIME interval. The LDLC layer sends another TEST request. This is considered the third retry attempt, which is the final retry in this example.	
	i) After the final TEST request is sent, VTAM will wait a period of time equal to the SRQTIME value (15 seconds in this example). Since this was the final retry attempt, and no response was received from the partner EE node, the EE connection is terminated at this point with message IST1430I.	

© 2005 IBM Corporation

Find retra	all Enterprise Extender connections associated with a particular VIF nsmission rates that meet or exceed 5% and display the output in de	PA with etail format
	D NET EEDIAG REWIT-5, IP-9:: 67:1:1, LIST-DETAIL IST0971 DISPLAY ACCHETD IST3501 DISPLAY TYPE = EEDIAG IST3501 DISPLAY TYPE = EEDIAG IST2051 RUTERERISE EXTENDER COMMON/21/04 AF 13:31:05 IST2051 EEDIAG DISPLAY ISSUED ON 06/27/04 AF 13:31:05 IST2841	
	IST2241	

IBM Software Group   Enterprise Networking and Transformation Solutions	TBM.
D NET, EEDIAG, CLEAR and SRQRETRY examples	
Clear all diagnostic counters for all Enterprise Extender connections.	
<ul> <li>D NET, EEDIAG, CLEAR</li> <li>ISTO971 DISPLAY ACCEPTED IST3501 DISPLAY TYPE - EEDIAG IST26071 EEDIAG DISPLAY TYPE - EEDIAG IST26071 EEDIAG DISPLAY TSSUED ON 08/23/04 AT 22:05:22 IST2011 ALL DIARMOSTIC CONNERS CLEARED FOR 3 EE CONNECTIONS IST3141 END</li> <li>Find all Enterprise Extender connections that experienced LDLC retries of three or more attempts. Present the output in detailed format and clear the SRQRETRY counters for all connections.</li> </ul>	
D NET, EEDLAG, SEQRETRY-3, LIST-DETAIL, CLEAR-SRORETRY IST3001 DISFLAN TYPE = EEDLAG IST3001 DISFLAN TYPE = EEDLAG IST30061 INTEREDISE ENTENDER CONNECTION SEQRETRY INFORMATION IST30061 INCAL IF ADDRESS 9.67.1.1 IST19011 IOCAL IF ADDRESS 9.67.1.4 IST19011 ISUCESFUL SNGRETRY ATTEMPT = 0 OCCURRENCES = 98 IST20741 SUCCESFUL SNGRETRY ATTEMPT = 0 OCCURRENCES = 1 IST20741 SUCCESFUL SNGRETRY ATTEMPT = 0 OCCURRENCES = 1 IST20741 SUCCESFUL SNGRETRY ATTEMPT = 2 OCCURRENCES = 1 IST20741 SUCCESFUL SNGRETRY CONTRES LEARD ON 00/23/04 AT 18:55:15 IST20411 SUCCESFUL SNGRETRY CONTRES LEARD ON 00/23/04 AT 18:55:15 IST20421 1 of 1 HE CONNECTIONS DISPLAYED IST3141 END	
© 2005 I	BM Corporation

	IBM Software Group   En	terprise Networking	and Transformation So	lutions	IBM.
Т	rademarks,	Copyrigh	ts and Discl	aimers	
The following terms are tradem	arks or registered trademarks of International Bus	iness Machines Corporation in the Unit	ted States, other countries, or both:		
IBM IBM(logo) e(logo)business AIX	CICS Cloudscape DB2 DB2 Universal Database	IMS Informix iSeries Lotus	MQSeries OS/390 OS/400 pSeries	Tivoli WebSphere xSeries zSeries	
Java and all Java-based trader	narks are trademarks of Sun Microsystems, Inc. in	the United States, other countries, or	both.		
Microsoft, Windows, Windows	NT, and the Windows logo are registered tradema	rks of Microsoft Corporation in the Unit	ed States, other countries, or both.		
Intel, ActionMedia, LANDesk, M	MX, Pentium and ProShare are trademarks of Int	tel Corporation in the United States, oth	ner countries, or both.		
UNIX is a registered trademark	of The Open Group in the United States and othe	er countries.			
Linux is a registered trademark	of Linus Torvalds.				
Other company, product and se	ervice names may be trademarks or service marks	s of others.			
Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements and/or changes in the production and/or program() decembed herein at any investment regarding IBM Stature decision and internet as subject to change or without and without notice, and represent gasis and objectives only. References in this document to IBM products, programs, or services does not imply that IBM interds to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not things IBMs intelectual property rights, may be used instead.					
Information is provided: "As IS" without averantly of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS IDSTBUTIED'S AS IS" WITHOUT ANY MARRANTY. ETHER EXPRESS OR IMPUED. IBM EXPRESSIV DISCLAMIS ANY MARRANTES OF MERCINATRISETY. FITTENSES FOR A PARTITULAR PURPOSE OF NONNFITMICARIENT IS MAIN and have no repossibility to update that information. IBM products are warranted, If at all, according to the terms and conditions of the agreements (e.g., IBM Custome Agreement, Statement of Limited Warranty, International Program Losses Agreement, etc.) under which they are provided. Information concerning non-IBM products associational for the supplies of those products. Information: IBM not activate those process in connection with this publication and contin the accuracy of performance, compatibility or any other claims related to non-IBM products. IBM makes no representations or warrantes, express or implied, regarding non-IBM products and services.					
The provision of the information writing, to:	n contained herein is not intended to, and does not	t, grant any right or license under any I	BM patents or copyrights. Inquiries regarding p	atent or copyright licenses should be made, in	
IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 10504-1785 U.S.A.					
Performance is based on measurements and projections using attantiated IBM banchmarks in a controlled environment. All outdonce enables devices are based on measurements and projections of how those outdonces have used IBM products and the results they may have achieved. The actual throughpost or performance that are used with any depending upon considerations such use the manual of the user's pib stream, the IQ configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.					
© Copyright International Busin	ess Machines Corporation 2005. All rights reserv	ed.			
Note to U.S. Government User	s - Documentation related to restricted rights-Use,	duplication or disclosure is subject to	restrictions set forth in GSA ADP Schedule Cont	ract and IBM Corp.	
				© 2005 I	BM Corporation