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TRADE	Testive Honorable Commissioner of Patents and Trademark	Attorney's Docket No. 0023-0005 ss. Please record the attached original document(s) or copy(ies)				
	Name of conveying party(ies): Dennis C. Ferguson, Devereaux C. Chen, Ramesh Padmanabhan, Chang-Hong Wu, and Thomas Michael Skibo	Name and address of receiving party(ies): Name: Juniper Networks, Inc. Address: 1194 North Mathilda Avenue				
	Additional name(s) of conveying party(ies) attached? Yes No Nature of conveyance: Assignment Merger Security Agreement Change of Name Other: Execution Date: March 19, 20, and 23, 2001	Sunnyvale, CA 94089-1206 Additional name(s) & address(es) attached? Yes No				
	Application number(s) or patent number(s): If this document is being filed together with a new application of the product of the produc					
	A. Patent Application No.(s) 09/752,829 Additional numbers att	B. Patent No.(s) attached? Yes No				
	5. Name and address of party to whom correspondence should be mailed:	Total number of applications and patents involved: 1				
	Name: John E. Harrity Address: HARRITY & SNYDER, L.L.P. 11240 Waples Mill Road Suite 300 Fairfax, Virginia 22030	 7. Total fee (37 CFR 3.41): \$40.00 Enclosed Authorization to be charged to deposit account, if necessary. 				
54/37/200	26615 2615 2610 DRYRNE 00000068 09752829	8. Deposit account number: 50-1070				
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	9. Statement and signature. To the best of my knowledge and belief, the foregoing information copy of the original document John E. Harrity Reg. No. 43,367 Name of Person Signing Signature. Mail documents to be recorded with	April 11, 2001 Date				

Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231

JOINT INVENTION (Worldwide Rights)

ASSIGNMENT

WHEREAS, WE, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

SINGLE CYCLE CYCLIC REDUNDANCY CHECKER/GENERATOR

L	for	which	an appl	ication is	s being fil	ed herev	with; or	⊠ for	which w	e filed	an app	lication fo	r
U	Inited	States	Letters	Patent o	n <u>January</u>	3, 2001	under S	Serial N	o. <u>09/75</u>	<u>2,829;</u>	and		

WHEREAS, Juniper Networks, Inc., a corporation of <u>Delaware</u> whose post office address is <u>1194 North Mathilda Avenue</u>, <u>Sunnyvale</u>, <u>California 94089-1206</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

PATENT REEL: 011678 FRAME: 0096

IN WITNESS WHEREOF, I hereto set my hand. Dennis C. FERGUSON 203 Orchard Glen Court Mountain View, California 94043 State of California) ss: County of Santa Clara) On this 20th day of March, 20 01, before me, Heide Opstedol, Notary Public, personally appeared Dennis C. FERGUSON personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. WITNESS my hand and official seal. Signature of Notary Public HEIDI OPSTEDAL Commission # 1205737 Notary Public - California Santa Clara County My Commission Expires: My Comm. Expires Jan 19, 2003 IN WITNESS WHEREOF, I hereto set my hand. Signature: Kurenary (.Chen
Date: March 19, 2001 Devereaux C. CHEN 19964 Price Avenue Cupertino, California 95014 State of California) ss: County of Santa Clara) On this _______, day of _______, 20______, before me, HEIDI OPSTEDAL ______, Notary Public, personally appeared Devereaux C. CHEN personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. WITNESS my hand and official seal. Signature of Notary Public HEIDI OPSTEDAL Commission # 1205737 Signature of Notary Públic
My Commission Expires: ///9/1/2 Notary Public - California

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IN TESTIMONY WHEREOF, WE have hereunto set our hand.

PATENT

IN WITNESS WHEREOF, I hereto set my hand	
Ramesh PADMANABHAN 1225 St. Joseph Avenue	Signature: Kamesh Padmanabhan
Los Altos, California 94024	Date: March 20 2001
State of California)) ss:	
County of Santa Clara)	
On this day of day of day of day of on the person whose name is subscribed instrument the person, or the entity upon bell instrument.	· · · · · · · · · · · · · · · · · · ·
HEIDI OPSTEDAL Commission # 1205737 Notary Public - California Santa Clara County [Notary & Seal Micerell. Expires Jan 19, 2003	WITNESS my hand and official seal. Signature of Notary Public My Commission Expires: 1/19/03
IN WITNESS WHEREOF, I hereto set my hand	
Chang-Hong WU	Signature:
19961 Merritt Drive Cupertino, California 95014	Date: $\frac{3}{23/0}$
State of California)) ss: County of Santa Clara)	
be the person whose name is subscribed to t	peared Chang-Hong WU personally known to me to the within instrument and acknowledged to me that city, and that by his signature on the instrument the me person acted, executed the instrument.
HEIDI OPSTEDAL Commission # 1205737 Notary Public - California \$ Santa Clara County [Notary & Sealty/Const]. Expires Jan 19, 2003	WITNESS my hand and official seal. Signature of Notary Public My Commission Expires: 3/19/03

Attorney Docket No. 0023-0005 <u>U.S. Serial No. 09/752,829</u>

IN WITNESS WHEREOF, I hereto set my hand	· The Short
Thomas Michael SKIBO	Signature: Nomen Shift
277 College Avenue	
Palo Alto, California 94306	Date: Mark 19, 2001
State of California) ss:	
County of Santa Clara)	
me to be the person whose name is subscribe	eared Thomas Michael SKIBO personally known to ed to the within instrument and acknowledged to me capacity, and that by his signature on the instrument the the person acted, executed the instrument.
HEIDI OPSTEDAL Commission # 1205737 Notary Public - California \$ Santa Clara County [Notary See Commission 19, 2003	WITNESS my hand and official seal. Signature of Notary Public My Commission Expires: 1/19/03

RECORDED: 04/11/2001