



## TECHNOLOGY MILESTONES 1989-90 through 2009-10

YEAR	MILESTONES	EQUIPMENT
<b>2008-09</b>	2008-09 Raiser's Edge Conversion (Data mapping, exports, testing, data cleanup, reports – go live scheduled for July 2009)	<u>Servers</u>
	7/2008 Began complete overhaul of College's main website	13 Dell Xeons Win2003
	7/2008 Replace LVC1Card, LVC03, Webmail, Raiser's Edge, Web, and File servers	7 Dell Xeons Win2008
	7/2008 Complete major upgrade to OneCard version 6.6	<u>Desktops/Laptops</u>
	7/2008 Install PC Notebook cart in Lynch 001, Mac Notebook cart in Lynch 010	PCs 648
	8/2008 Replace connections to Blair, Laughlin, Humanities, and Chapel with Gb links	Macs 76
	8/2008 Complete wireless in residence halls with Funkhouser and Silver	Total <sup>1</sup> 724
	9/2008 Create and deploy portal for Trustees	DigiComm 25
	9/2008 Assist with launch of GoDutchmen.com	749
	9/2008 Add wireless to McGill Baseball Park and fields and parking lots east of 934	<u>Tech Classrms/Labs</u>
	10/2008 Launch new Dutchman OneCard program	With podium 22
	Winter '09 Review customizations made to web registration after changes by Datatel	No podium 24
	Winter '09 Build blogging sites for numerous departments on campus	Total 46
	1/2009 Create IT Services Help Desk and Solutions Center blog	
	1/2009 Began use of Microsoft BitLocker on administrative computers	
	Spring '09 Conduct review of Dell, HP, Lenovo laptops. Decide to continue with Dell.	
	Spring '09 Research and test nComputing virtual desktop products	
	Spring '09 Create Help Desk Satisfaction survey	
	Spring '09 Develop process to import prospect data into Colleague	
	6/2009 Migrate from Sophos to Microsoft Forefront	
	6/2009 Voice, Data, and Cable TV wiring completed in Stanson Hall	
	6/2009 Add wireless to Stanson Hall	
	6/2009 Expand wireless to quads, Peace Garden, east residential lawns, and Sheridan	
	6/2009 Complete successful external network vulnerability audit	

<sup>1</sup> Total as of the fiscal year end (June 30).

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<b>2007-08</b>	7/2007	Replace Exchange, Storage3, Domain, NOC/Sophos, SMS servers	<u>Servers</u>	
	7/2007	Move to Windows Vista, Office 2007 as campus standards	12 Dell Xeons	Win2003
	7/2007	Move faculty technology room from Humanities to Lynch (2 <sup>nd</sup> floor)	7 Dell Xeons	Win2008
	7/2007	Begin using Sophos for antivirus, anti-malware protection		
	7/2007	Connect Maple East/West to Friendship via fiber	<u>Desktops/Laptops</u>	
	7/2007	Add wireless to Derickson, Marquette, Dellinger small houses	PCs	623
	8/2007	Move personal pages from Math server to central File server	Macs	<u>74</u>
	9/2007	Connect Bishop, Carnegie, Humanities, N-G via gigabit links	Total <sup>1</sup> 697	
	Fall '07	Create portal for students, employees	DigiComm	<u>53</u>
	1/2008	Complete Neidig-Garber technology installs, department moves	750	
	1/2008	Complete conversion to Colleague Release 18 (started in 7/2006)	<u>Tech Classrms/Labs</u>	
	3/2008	Rewrite financial aid packaging for Release 18	With podium	21
	4/2008	New website for graduate studies/continuing education	No podium	<u>21</u>
	Spring '08	Decide to replace Benefactor with Raiser's Edge; begin conversion	Total 42	
	6/2008	Increase Internet bandwidth to from 20 to 50 Mbps		
	6/2008	Replace Call Pilot with ESNA voicemail system		
	6/2008	Connect Rohland to campus phone system via copper, network via fiber		
	6/2008	Add wireless to Fencil, Rohland (all non-residential buildings completed)		
	6/2008	Begin using Blue Coat for bandwidth management, website caching		
	6/2008	Add wireless to Mary Green, Hammond, Keister, Hammond, Vickroy		

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<b>2006-07</b>	7/2006	Increase Internet bandwidth to from 10 to 20 Mbps	<u>Servers</u>	
	7/2006	Replace Blackboard, AccessLVC, Print and Library servers	2 Dell Xeons	Win2000
	7/2006	Add two servers for Portal (MyLVC), Dyknow	16 Dell Xeons	Win2003
	7/2006	Deploy new version of AccessLVC; begin using standard LVC password		
	7/2006	Add card access to Derickson, Silver (all large residence halls completed)	<u>Desktops/Laptops</u>	
	7/2006	Replace homegrown software for tracking calls, inventory with TrackIt!	PCs	535
	7/2006	Implement network management (Campus Manager) for ResNet	Macs	<u>106</u>
	7/2006	Institute laptop program for full-time faculty and administrators	Total <sup>1</sup> 641	
	7/2006	Update disaster recovery plan and perform tabletop exercise	DigiComm	<u>64</u>
	8/2006	Connect N. College (118 and north) to the campus network via fiber	705	
	12/2006	Wire and light up 20-22 Sheridan Avenue for student housing	<u>Tech Classrms/Labs</u>	
	1/2007	Expand wireless network to Blair, Carnegie, Humanities, Kreiderheim, Zimmerman, new Gym (all major admin/academic buildings wireless)	With podium	19
	1/2007	Convert Lynch 184 to technology-enabled classroom (20 total)	No podium	<u>1</u>
	1/2007	Complete technology installs, move of depts. to Neidig-Garber south	Total 20	
	2/2007	Correct Microsoft calendar errors caused by change in daylight savings		
	2/2007	Install Academus/uPortal and begin planning for implementation		
	2/2007	Implement automated e-mails to prospects with tracking mechanism		
	3/2007	Add data in SQL Server reporting database for portal		
	3/2007	Connect Rohland to campus network via wireless bridge		
	3/2007	Engage third party to conduct external network vulnerability assessment		
	5/2007	Begin permitting graduates to keep LVC e-mail accounts		
	5/2007	Add data in SQL Server reporting database for wait list processing		
	6/2007	Upgrade core network; re-config/wire server/network operations room		
	6/2007	Add fiber from Lynch to Blair (and north) for redundancy		
	6/2007	Emergency replacement of Admin server after critical hardware failure		
	6/2007	Connect Friendship, 38/44 N. College to campus network via fiber		

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YEAR	MILESTONES	EQUIPMENT		
<b>2005-06</b>	7/2005	Change Internet provider and increase bandwidth to 10 Mbps	<u>Servers</u>	
	7/2005	Replace Webmail, File and Web with servers running Windows 2003	6 Dell Xeons	Win2000
	7/2005	Establish 4-year replacement cycle for all desktop/laptop computers	11 Dell Xeons	Win2003
	7/2005	Add two servers for backup storage (Storage 1,2) running Windows 2003		
	7/2005	Upgrade staff e-mail server to Enterprise version of Exchange 2003	<u>Desktops/Laptops</u>	
	7/2005	Install new POS and credit card processing systems College Store	PCs	514
	7/2005	Convert Lynch 190 to a technology-enabled classroom (19 total)	Macs	<u>113</u>
	7/2005	Upgrade to Blackboard Enterprise Edition	Total <sup>1</sup> 627	
	8/2005	Expand wireless network to Mund, New Student Center, Heilman/Arnold	DigiComm	<u>58</u>
	8/2005	Implement TurnItIn anti-plagiarism software	685	
	8/2005	Begin using external anti-spam service from MCI/Verizon		
	8/2005	Card access to Funkhouser and Mary Green operational	<u>Students on ResNet</u> 1,152	
	8/2005	Begin importing online admissions apps from CollegeNet into Colleague		
	10/2005	Develop and implemented online Honor Roll of Donors		
	11/2005	Begin using homegrown call tracking software built with SharePoint		
	12/2005	Set up pilot program for DyKnow Vision		
	1/2006	Connect Lynch server room to building generator for emergency power		
	1/2006	Wire and light up 150 N. College Avenue for student housing		
	2/2006	Create routines to collect data for Tripp-Umbach economic impact study		
	3/2006	Form committee and begin work to select replacement for Benefactor		
	3/2006	Complete installation of voice, data, computers in Lynch for Physics		
	3/2006	Expand wireless network to perimeter areas of first floor of Lynch		
6/2006	Complete installation of voice, data, computers in Rohland for Facilities			

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YEAR	MILESTONES	EQUIPMENT		
<b>2004-05</b>	7/2004	Replace domain controller and upgrade to Windows 2003 domain	<u>Servers</u>	
	7/2004	Replace staff e-mail server, upgrade to Exchange 2003	8 Dell Xeons	Win2000
	7/2004	Provide network file storage for students; remote access to same for staff	4 Dell Xeons	Win2003
	8/2004	Require registration of student computers before allowing on ResNet		
	8/2004	Install first wireless notebook classroom (Lynch)	<u>Desktops/Laptops</u>	
	8/2004	Notebook program for DigiComm majors begins	PCs	504
	8/2004	Provide Norton Anti-Virus to all full-time students at no charge	Macs	<u>123</u>
	8/2004	Card access to Keister and Hammond operational	Total <sup>1</sup> 627	
	8/2004	Complete installation of emergency phones in existing elevators	DigiComm	<u>45</u>
	12/2004	Convert Admin from Unix to Windows	672	
	12/2004	Install new webcam on roof of Bishop overlooking academic quad		
	2/2005	Complete installation of voice, data, computers in renovated Lynch	<u>Students on ResNet</u> 1,125	
	2/2005	First widely accessible wireless network available (Lynch)		
	2/2005	Seven new (18 total) technology-enhanced classrooms available (Lynch)		
	3/2005	Add "dollars on" inquiry ability to AccessLVC		
	4/2005	Expand wireless network to Bishop Library		
	4/2005	Major improvements to Degree Audit capabilities		
	5/2005	Shut down operator console, moved function to College Center Desk		
	6/2005	Develop process to load changes on Admin to SQL server in real time		
	6/2005	Replace equipment, software at network core (speed, security, reliability)		
6/2005	Connect Miller to campus network via fiber to replace copper connection			

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YEAR	MILESTONES	EQUIPMENT		
<b>2003-04</b>	7/2003	Debut revamped LVC web site	<u>Servers</u>	
	7/2003	Add separate AccessLVC server (Dell Xeon/Win2K)	1 Alpha DS20E	Unix
	8/2003	Re-wire Mary Green and Funkhouser (completes port-per-pillow project)	11 Dell Xeons	Win2K
	8/2003	Replace Library Unix server with Dell Xeon/Win2K	<u>Desktops/Laptops</u>	
	8/2003	Card access to Vickroy operational	PCs	444
	8/2003	Convert Humanities 209 to technology-enabled classroom	Macs	<u>118</u>
	8/2003	Require students to login to lab computers	Total <sup>1</sup> 562	
	8/2003	Add emergency telephones at entrances to six large residence halls		
	9/2003	Combat widespread virus/worm outbreak on ResNet		
	9/2003	Install voice, data, cable TV wiring in New Gym	<u>ResNet Connections</u>	1,152
	10/2003	Add ability to send e-mail from class roster in AccessLVC		
	10/2003	Implement Physical Plant module of Colleague		
	3/2004	Implement mechanism to do mass e-mailing (40,000 prospective students)		
	3/2004	Develop/implement process to scan computers for security vulnerabilities		
	3/2004	Move campus webcam from Funkhouser to Lynch to view construction		
	3/2004	Decide not to offer student long distance starting in 2004-05		
	4/2004	Install software to monitor equipment/events and send problem alerts		
	6/2004	Add ability to view placement test scores in AccessLVC		
	6/2004	Assist in developing notebook program for DigiComm majors for Fall '04		
	6/2004	Implement online process to change/request change of passwords		
	6/2004	Create separate "virtual" networks on ResNet for security, performance		
	6/2004	Add separate Print server (Dell Xeon/Win2K)		
6/2004	Complete move to switched 100 Mbit connections campus-wide			

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<b>2002-03</b>	7/2002	Add more than 30 PCs and Macs to labs in Garber, Blair	2 Alpha DS20Es	Unix
	7/2002	Install new telephone and voicemail systems for students, staff	2 Dell PIIIs	Win2K
	8/2002	Rewire Silver and Hammond (port per pillow)	6 Dell PIII Xeons	Win2K
	8/2002	Replace Stumail server with Dell PIII Xeon (Webmail)		
	8/2002	Card access to Dellinger and Marquette operational	PCs	418
	9/2002	Students able to access schedules, degree audits, etc. via AccessLVC	Macs	147
	9/2002	Install web camera to allow public to view progress on capital projects		Total <sup>1</sup> 565
	9/2002	Implement data warehouse, reports for academic department evaluations		
	9/2002	Implement vehicle registration for Public Safety, users via AccessLVC	ResNet Connections	1,075
	11/2002	First online registration with AccessLVC for full-time students		
	11/2002	Complete wiring of new student activities center		
	12/2002	Replace File-Print/Web server with two Dell PIII Xeons		
	12/2002	Convert Humanities 302 to technology-enabled classroom		
	1/2003	Rebuild data warehouse for Benefactor reporting		
	1/2003	Wire and light up 13 W. Church Street for use as a student residence		
	2/2003	Implement ticketing module for Public Safety		
	3/2003	Install device to help manage Internet bandwidth (PacketShaper)		
	5/2003	Complete major update of IT Disaster Recovery Plan		
	5/2003	Create computer lab at Harrisburg Regional Center (PCs from Lancaster)		
	6/2003	Complete new website with new design and database-driven content		
6/2003	Replace Blackboard server with Dell PIII Xeon			
6/2003	Change Internet provider and double bandwidth to 6 Mbps			
6/2003	Install fiber and rewire Laughlin			

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YEAR	MILESTONES	EQUIPMENT		
<b>2001-02</b>	7/2001	Replace network core (Cisco), replace VPN	Alpha DPW500	Unix
	8/2001	Wire and connect 38 and 44 N. College to campus network	Compaq PIII	Win2K
	8/2001	Re-wire Keister, Vickroy, Main Street, Maple Street (port per pillow)	Alpha DS20E	Unix
	8/2001	Connect Main Street residences to campus network via wireless	Alpha DS20E	Unix
	8/2001	Convert Garber 304 to technology-enabled classroom	Dell PIII	Win2K
	9/2001	Build PCS One wireless facility on Blair rooftop	Dell PIII Xeon	Win2K
	11/2001	Replace Admin server with Alpha DS20E		
	12/2001	Implement ability to make a monetary gift online	PCs	364
	12/2001	Complete move of employees to Exchange server for mail, calendar	Macs	<u>162</u>
	12/2001	Complete move of employees to Windows file/print server		Total <sup>1</sup> 526
	1/2002	Retire Novell server		
	2/2002	Added Packeteer to manage use of Internet bandwidth	ResNet Connections	961
	2/2002	Begin using Activities & Events module		
	3/2002	Test WebAdvisor (to be known as AccessLVC) for registration		
	4/2002	AccessLVC available to students for grades, transcripts and schedules		
	6/2002	Connect Shroyer to campus network		
	6/2002	Install new ID Card servers and move to Windows platform		
	6/2002	Complete wiring of new residence hall (Dellinger)		
	6/2002	Reconfigure server room (move electrical, UPS), add office		

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YEAR	MILESTONES	EQUIPMENT	
<b>2000-01</b>	7/2000 Replace Library server with Alpha DS20E	Alpha DPW500	Unix
	8/2000 Wire 21 E. Main, Derickson A and B	Compaq PIII	Win2K
	8/2000 Connect Derickson A to campus net via wireless	Alpha DS20E	Unix
	8/2000 Consolidate all of ITS into lower level of Lynch	Compaq Pentium	Netware
	9/2000 Mathematica available	Alpha DS20E	Unix
	9/2000 Add technology-enabled classroom in Blair	Dell PIII	Win2K
	9/2000 ELMS reaches deal with Blackboard	Dell PIII Xeon	Win2K
	10/2000 Blackboard server (Dell PIII) installed		
	12/2000 College Store online (www.lvcbookstore.com)	PCs	330
	2/2001 Exchange server (Dell PIII Xeon) installed	Macs	<u>198</u>
	2/2001 Connect Derickson B to campus network from Derickson A		Total <sup>1</sup> 528
	3/2001 Add second T1 for Internet access		
	4/2001 Install and begin testing Java-based WebAdvisor	ResNet Connections	825
	6/2001 Re-wire Carnegie, MAC House, Facilities Services		

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YEAR	MILESTONES	EQUIPMENT
<b>1999-00</b>	7/1999 Install new web server	Alpha DPW500      Unix
	8/1999 Network new dorms including Marquette, Maple St. and College Ave.	Compaq PIII      WinNT
	8/1999 Deploy new e-mail server on former firewall Alpha DPW500	Alpha 1200      Unix
	10/1999 Move current site to new web server (WinNT)	Compaq Pentium      Netware
	10/1999 Network Wagner House	Alpha 2100      Unix
	11/1999 Move web site to new web server	
	12/1999 Decommission VAX/VMS system	PCs      308
	12/1999 Complete Year 2000 planning and turnover	Macs      204
	1/2000 First 100Mbit connections to the desktop	Other <u>0</u>
	5/2000 Web access to budget reports	Total <sup>1</sup> 512
	P!N system operational for development office	
	5/2000 Debut newly designed web site	ResNet Connections      650
	6/2000 Install firewall, VPN; upgrade Internet connection to 1.54 Mbps T1	
<b>1998-99</b>	Establish 5-year replacement cycle for administrative desktop computers	VAX 3100-90      VMS
	8/1998 ID card system operational	Alpha 1200      Unix
	9/1998 Open West Shore Center	Compaq Pentium      Netware
	10/1998 Open Mund Computer Lab to replace residence hall labs	Alpha 2100      Unix
	11/1998 Replace Admin with Alpha 1200	
	11/1998 Move Library to former Alpha 2100 Admin server	PCs      290
	1/1999 Provide network access to Maison Main for temporary housing	Macs      201
	1/1999 Installed Samba on Admin for Windows access to Unix files	Other <u>2</u>
	1/1999 First production reports from Safari	Total <sup>1</sup> 493
	2/1999 Installed virtual private network for access to Admin	
	3/1999 Awarded Datatel internship	ResNet Connections      320
	6/1999 Re-vamped security for Colleague	
	6/1999 Replace network backbone with Accelar switched 100 Mbit technology	

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<b>1997-98</b>	7/1997	Institute student technology fee	VAX 3100-90	VMS
		Establish 5-year replacement cycle for student computers	Alpha 2100	Unix
	8/1997	Network all remaining (12) residence halls	Compaq Pentium	Netware
	8/1997	Introduce switching technology into campus backbone	Alpha 2100	Unix
	11/1997	Cutover to Colleague Release 14		
		Add two technology-enhanced classrooms (Lynch 120, Humanities 210)	PCs	280
		Open two faculty technology rooms (Blair, Humanities)	Macs	193
		Add last two academic departments to Web site	Other	<u>2</u>
	6/1998	Implement Residence Life module of Colleague		Total <sup>1</sup> 475
		Receive \$25,000 Bell Atlantic grant for networking		
	Receive \$48,000 CAPE grant for computer classroom and labs	ResNet Connections	180	
	Implement Major Prospects module of Benefactor			
	Network Art Department and Laughlin Hall			
<b>1996-97</b>		Offer first Technology in Teaching / Learning Process (TTLP) workshops	VAX 3100-90	VMS
		Award first TTLP grants	Alpha 2100	Unix
		Complete wiring and network Garber, Carnegie	Compaq Pentium	Netware
		Open computer help desk	Alpha 2100	Unix
		Install mail automation software		
			PCs	259
			Macs	191
		Other	<u>28</u>	
			Total <sup>1</sup> 478	

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<b>1995-96</b>	7/1995	Install new library computer	VAX 3100-90	VMS
	8/1995	Connect first dorms (Vickroy, Funkhouser West) to campus network	Alpha 2100	Unix
	8/1995	Wire Garber 3/4 for high-speed networking	Compaq Pentium	Netware
	9/1995	Open chemistry's molecular modeling lab	Alpha 2100	Unix
	10/1995	Debut college Web site		
	12/1995	Connect new library to campus fiber network	PCs	252
	12/1995	Upgrade Internet connection to 1.17 Mbps SMDS T1	Macs	168
		Make degree audit available to faculty through the Web	Other	<u>35</u>
	1/1996	Complete implementation of automated library system		Total <sup>1</sup> 455
	1/1996	Open new library		
5/1996	Open video conference room			
<b>1994-95</b>	7/1994	Replace ADMIN system	VAX 3100-90	VMS
	8/1994	Install first PC LAN - Math and Computer Services	Alpha 2100	Unix
	9/1994	Begin re-construction of new library	AST 486	Netware
	2/1995	Open Mac lab in Lynch		
	3/1995	Select vendor and purchase new library system	PCs	238
		Install first multimedia presentation system (Chapel 101)	Macs	102
		Unveil "Career Connections" (alumni career database)	Other	<u>51</u>
		Financial Aid joins federal direct lending program		Total <sup>1</sup> 391
	6/1995	Provide remote access to campus network		
		Establish 5-year replacement cycle for faculty computers		

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<b>1993-94</b>	8/1993 Open computer science classroom	VAX 3100-90	VMS	
	7/1993 Connect Garber to campus fiber network	RISC 5810	Ultrix	
	12/1993 Connect Blair to campus fiber network			
	1/1994 Hire librarian to lead automation effort	PCs	213	
	MBA office begins using Colleague	Macs	79	
		Other	<u>50</u>	
		Total <sup>1</sup>	342	
<b>1992-93</b>	7/1992 Alumni/Development begins using Benefactor	VAX 8200	VMS	
	7/1992 Purchasing on Colleague	RISC 5810	Ultrix	
	7/1992 Library catalog (CD-ROM based) on-line			
	12/1992 Budget management on Colleague	PCs	192	
	1/1993 Financial Aid begins using Colleague	Macs	49	
	Join PETEnet (a.k.a. CAPE)	Other	<u>62</u>	
	Open Lancaster computer lab		Total <sup>1</sup>	303
	6/1993 Complete barcoding of circulating collection			
	WLVC on CATV system			
	6/1993 Upgraded Internet connection to 56 Kbps			

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<b>1991-92</b>	7/1991 Establish computing and communications policy	PDP 11/84	RSTS/E
	8/1991 Admission begins using Colleague (8/1991)	VAX 8200	VMS
	8/1991 Provide CATV to all dorm rooms as part of room charge	RISC 5810	Ultrix
	12/1991 Connect campus to the Internet at 9600 bps		
	Establish software copyright policy Widespread use of e-mail by administrative offices	PCs	172
		Macs	38
		Other	<u>71</u>
			Total <sup>1</sup> 281
<b>1990-91</b>	7/1990 Install Colleague management information system	PDP 11/84	RSTS/E
	7/1990 Business Office begins using Colleague	VAX 8200	VMS
	8/1990 Wire dorms for voice, CATV and data	RISC 5810	Ultrix
	8/1990 Install new telephone system		
	11/1990 Provide phone and optional CATV to dorms	PCs	138
	Fall 1990 Begin using Colleague for registration	Macs	34
	Fall 1990 Unveil campus-wide information system Widespread use of e-mail by academic community	Other	<u>66</u>
			Total <sup>1</sup> 238
<b>1989-90</b>	12/1989 Establish new central computer facilities	PDP 11/84	RSTS/E
	12/1989 Connect Lynch, Humanities as first leg of campus fiber network	VAX 8200	VMS
	5/1990 Move computing staff into new facilities		
	Provide library catalog on CD-ROM		

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