PORTS

TCP/IP Protocols and Services

Introduction

The port numbers are divided into three ranges:

- the **Well Known Ports**: are those from 0 through 1023. DCCP Well Known ports SHOULD NOT be used without IANA registration. The registration procedure is defined in [RFC4340], Section 19.9.
- the **Registered Ports**: are those from 1024 through 49151. DCCP Registered ports SHOULD NOT be used without IANA registration. The registration procedure is defined in [RFC4340], Section 19.9.
- the **Dynamic and/or Private Ports**: are those from 49152 through 65535

PLEASE NOTE THE FOLLOWING:

1. UNASSIGNED PORT NUMBERS SHOULD NOT BE USED. THE IANA WILL ASSIGN THE NUMBER FOR THE PORT AFTER YOUR APPLICATION HAS BEEN APPROVED.
2. ASSIGNMENT OF A PORT NUMBER DOES NOT IN ANY WAY IMPLY AN ENDORSEMENT OF AN APPLICATION OR PRODUCT, AND THE FACT THAT NETWORK TRAFFIC IS FLOWING TO OR FROM A REGISTERED PORT DOES NOT MEAN THAT IT IS "GOOD" TRAFFIC. FIREWALL AND SYSTEM ADMINISTRATORS SHOULD CHOOSE HOW TO CONFIGURE THEIR SYSTEMS BASED ON THEIR KNOWLEDGE OF THE TRAFFIC IN QUESTION, NOT WHETHER THERE IS A PORT NUMBER REGISTERED OR NOT.

Socket: è costituito dal concatenamento di un indirizzo IP con il numero di porta di una specifica applicazione (p.es. 10.65.10.13:2001)

TCP/IP protocols

Port	Name	Alias
0	IP	IP
1	icmp	ICMP
3	ggp	GGP
6	tcp	TCP
8	egp	EGP
12	pup	PUP
17	udp	UDP
20	hmp	HMP
22	xns-idp	XNS-IDP
27	rdp	RDP
66	rvd	RVD

WELL KNOWN PORT NUMBERS

The Well Known Ports are assigned by the IANA and on most systems can only be used by system (or root) processes or by programs executed by privileged users.

Ports are used in the TCP [RFC793] to name the ends of logical connections which carry long term conversations. For the purpose of providing services to unknown callers, a service contact port is defined. This list specifies the port used by the server process as its contact port. The contact port is sometimes called the "well-known port".

To the extent possible, these same port assignments are used with the UDP [RFC768].

The range for assigned ports managed by the IANA is 0-1023.

Port	Alias	Service Name	Server name	Protocol
1	tcpmux	TCP Port Service Multiplexer		tcp/udp
2	compressnet	Management Utility		tcp/udp
3	compressnet	Compression Process		tcp/udp
5	rje	Remote Job Entry		tcp/udp
7		Echo		tcp/udp
9	discard	Discard		tcp/udp/dccp
11	systat	Active Users		tcp/udp
13	daytime	Daytime[1]		tcp/udp
15		unassigned (was Netstat)		tcp
17	qotd	Quote of the Day		tcp/udp
18	msp	Message Send Protocol		tcp/udp
19	chargen	Character Generator		tcp/udp
20	**ftp-data**	**File Transfer [Default Data][2]**		tcp/udp
21	**ftp**	**File Transfer [Control]**		tcp/udp
22	**ssh**	SSH Remote Login Protocol RDi (debug SSL)		tcp/udp
23	**telnet**	**telnet[3]**	telnet	tcp/udp
24		any private mail system		tcp/udp
25	**smtp**	**smtp[4]** (Simple Mail Transfer Protocol)		tcp/udp
27	nsw-fe	NSW User System FE		tcp/udp
29	msg-icp	MSG ICP		tcp/udp
31	msg-auth	MSG Authentication		tcp/udp
33	dsp	Display Support Protocol		tcp/udp
35		any private printer server		tcp/udp
37	time	time		tcp/udp
38	rap	Route Access Protocol		tcp/udp
39	rlp	Resource Location Protocol		tcp/udp
41	graphics	Graphics		tcp/udp

[1] RFC 867
[2] RFC 959
[3] RFC 15-854
[4] RFC 821

Port	Alias	Service Name	Server name	Protocol
42	name nameserver	Host Name Server		tcp/udp
43	nicname[1]	Who Is		tcp/udp
44	mpm-flags	MPM FLAGS Protocol		tcp/udp
45	mpm	Message Processing Module [recv]		tcp/udp
46	mpm-snd	MPM [default send]		tcp/udp
47	ni-ftp	NI FTP		tcp/udp
48	auditd	Digital Audit Daemon		tcp/udp
49	tacacs	Login Host Protocol (TACACS)		tcp/udp
50	re-mail-ck	Remote Mail Checking Protocol		tcp/udp
51	la-maint	IMP Logical Address Maintenance		tcp/udp
52	xns-time	XNS Time Protocol		tcp/udp
53	domain	**DNS** domain[2] (Server nome dominio)		tcp/udp
54	xns-ch	XNS Clearinghouse		tcp/udp
55	isi-gl	ISI Graphics Language		
56	xns-auth	XNS Authentication		
57		any private terminal access		tcp/udp
58	xns-mail	XNS Mail		
59		any private file service		
61	ni-mail	NI MAIL		
62	acas	ACA Services		
63	whois++	whois++		
64	covia	Communications Integrator (CI)		
65	tacacs-ds	TACACS-Database Service		
66	sql*net	Oracle SQL*NET		
67	bootps	Bootstrap Protocol Server		tcp/udp
68	bootpc	Bootstrap Protocol Client		tcp/udp
69	tftp	Trivial File Transfer (TFTP)		tcp/udp
70	gopher	Gopher		
71	netrjs-1	Remote Job Service		
72	netrjs-2	Remote Job Service		
73	netrjs-3	Remote Job Service		
74	netrjs-4	Remote Job Service		
75		any private dial out service		
76	deos	Distributed External Object Store		
77		any private RJE service		tcp/udp
78	vettcp	vettcp		
79	finger	finger[3]		tcp/udp

[1] RFC 954

[2] used also by Client Access if a DNS server is use to be accessed.

[3] RFC 1288

Port	Alias	Service Name	Server name	Protocol
80	http www www-http	**http**[1] (World Wide Web)		tcp
81	hosts2-ns	HOSTS2 Name Server		
82	xfer	XFER Utility		
83	mit-ml-dev	MIT ML Device		
84	ctf	Common Trace Facility		
85	mit-ml-dev	MIT ML Device		
86	mfcobol	Micro Focus Cobol		
87		any private terminal link		tcp/udp
88	kerberos	Kerberos		tcp/udp
89	su-mit-tg	SU/MIT Telnet Gateway		
90[2]	dnsix	DNSIX Securit Attribute Token Map		
91	mit-dov	MIT Dover Spooler		
92	npp	Network Printing Protocol		
93	dcp	Device Control Protocol		
94	objcall	Tivoli Object Dispatcher		
95	supdup	supdup		tcp/udp
96	dixie	DIXIE Protocol Specification		
97	swift-rvf	Swift Remote Virtural File Protocol		
98	tacnews	TAC News		
99	metagram	Metagram Relay		
100	newacct	[unauthorized use]		
101	hostname	NIC Host Name Server		tcp/udp
102	iso-tsap	iso-tsap (ISO-TSAP Classe 0)		tcp/udp
103	gppitnp	Genesis Point-to-Point Trans Net		tcp/udp
104	acr-nema	ACR-NEMA Digital Imag. & Comm. 300		tcp/udp
105	cso csnet-ns	CCSO name server protocol Mailbox Name Nameserver		tcp/udp
106[3]	3com-tsmux	3COM-TSMUX		
107	rtelnet	Remote Telnet Service		tcp/udp
108	snagas	SNA Gateway Access Server		
109	pop2	pop2 (Post Office Protocol - Versione 2)		tcp/udp
110	**pop3**	**pop3** (Post Office Protocol - Versione 3)		tcp/udp
111	sunrpc	SUN Remote Procedure Call		tcp/udp
112	mcidas	McIDAS Data Transmission Protocol		
113	ident auth	Authentication Service		tcp/udp
115	**sftp**	Simple File Transfer Protocol		tcp/udp

[1] RFC 2616

[2] also being used unofficially by Pointcast

[3] Unauthorized use by insecure poppassd protocol

Port	Alias	Service Name	Server name	Protocol
116	ansanotify	ANSA REX Notify		
117	uucp-path	UUCP Path Service		tcp/udp
118	sqlserv	SQL Services		
119	nntp	Network News Transfer Protocol[1]		tcp/udp
120	cfdptkt	CFDPTKT		
121	erpc	Encore Expedited Remote Pro.Call		
122	smakynet	SMAKYNET		
123	ntp	Network Time Protocol		tcp/udp
124	ansatrader	ANSA REX Trader		
125	locus-map	Locus PC-Interface Net Map Ser		
126	nxedit	NXEdit		
127	locus-con	Locus PC-Interface Conn Server		
128	gss-xlicen	GSS X License Verification		
129	pwdgen	Password Generator Protocol		
130	cisco-fna	cisco FNATIVE		
131	cisco-tna	cisco TNATIVE		
132	cisco-sys	cisco SYSMAINT		
133	statsrv	Statistics Service		
134	ingres-net	INGRES-NET Service		
135	epmap	DCE endpoint resolution		tcp/udp
136	profile	PROFILE Naming System		
137	netbios-ns	NETBIOS Name Service		tcp/udp
138	netbios-dgm	NETBIOS Datagram Service		tcp/udp
139	netbios-ssn	NETBIOS Session Service		tcp/udp
140	emfis-data	EMFIS Data Service		
141	emfis-cntl	EMFIS Control Service		
142	bl-idm	Britton-Lee IDM		
143	**imap**	imap (Internet Message Access Protocol)		tcp/udp
144	uma	Universal Management Architecture		tcp/udp
145	uaac	UAAC Protocol		
153		sgmp		udp
158		pcmail-srv (Server PCMail)		tcp
161		snmp		udp
162	snmp-trap	snmp-trap		udp
170		print-srv (PostScript di rete)		tcp
175		vmnet		tcp
179		bgp (Border Gateway Protocol)		tcp
194		irc (Internet Relay Chat Protocol)		tcp
213		ipx (IPX su IP)		udp

[1] RFC 977

Port	Alias	Service Name	Server name	Protocol
247	subntbcst_tftp	tftp[1]		udp
315		load		Udp
389		ldap - Client Access (LDAP) - (Lightweight Directory Access Protocol)		Tcp
397		Client Access (Anynet)	APPCoverTCPIP ObjectConnect	tcp / udp
400		vmnet0		Tcp
427		SLP – Service Location Protocol		
443	**Mcom**	**https**		tcp/udp
445		**microsoft-ds / NetServer (IBM i)**		tcp
446		DDM drda **(IBM i)** RDi (RSE)	DRDA	Tcp
447		**DDM ddm (IPSec)** (IBM i)	DDM	tcp
448		DDM SSL (IBM i) RDI (RSE)	DDM	tcp-ssl
449		**IBM i Access** (server mapper)[2] RDi (RSE)	as-svrmap	tcp / tcp-ssl
500	ike	isakmp (Internet Key Exchange)		udp
512		exec (Esecuzione processo remoto)		tcp
512	comsat	Biff		udp
513		login (Accesso remoto)		tcp
513	whod	Who		udp
514	shell	Cmd		tcp
514		Syslog		udp
515	spooler	server di stampa TCP/IP (lpd)		tcp
517		talk		udp
518		ntalk		udp
520		efs (Server nomi file estesi)		tcp
520	route routed	router		udp
523		db2cDB2DAS00 (connection port for the DB2 instance DB2DAS00)		tcp
524		db2iDB2DAS00 (interrupt port for the DB2 instance DB2DAS00)		tcp
525	timeserver	timed		udp
526	newdate	tempo		tcp
530	rpc	courier		tcp
531	chat	conference		tcp
531		rvd-control		udp
532	readnews	netnews		tcp
533		netwall (per trasmissioni di emergenza)		udp

[1] su IBM i

[2] used by all functions of Client Access. If the user changes the Connection properties for an AS/400 connection so that “Where to look up Remote Port” is set to “Standard” or “Local”, then the port mapper will not be used.

Port	Alias	Service Name	Server name	Protocol
540	uucpd	uucp		tcp
543		klogin (Kerberos)		tcp
544	krcmd	kshell (Kerberos shell remota)		tcp
550	new-who	new-rwho		udp
556	rfs rfs_server	remotefs		tcp
560	rmonitord	rmonitor		udp
561		monitor		udp
600		garcon		tcp
601		maitrd		tcp
602		busboy		tcp
636	sldap	ldaps - Client Access (LDAP) - (LDAP su TLS/SSL)		tcp-ssl
666		doom (Id Software Doom)		tcp/udp
700		acctmaster		udp
701		acctslave		udp
702		acct		udp
703		acctlogin		udp
704		acctprinter		udp
705		acctinfo		udp
706		acctslave2		udp
707		acctdisk		udp
749		kerberos-adm (Amministrazione Kerbe-ros)(		tcp/udp
750		kerberos		tcp
750		kerberos		udp
751		kerberos_master		tcp
751		kerberos_master		udp
752		passwd_server		udp
753		userreg_server		udp
754		krb_prop		tcp
888		erlogin		tcp
990		ftp-control with TLS/SSL		tcp
992		IBM i Access (telnet)	telnet	tcp-ssl

REGISTERED PORT NUMBERS

The Registered Ports are listed by the IANA and on most systems can be used by ordinary user processes or programs executed by ordinary users.

Ports are used in the TCP [RFC793] to name the ends of logical connections which carry long term conversations. For the purpose of providing services to unknown callers, a service contact port is defined. This list specifies the port used by the server process as its contact port.

The IANA registers uses of these ports as a convenience to the community.

To the extent possible, these same port assignments are used with the UDP [RFC768].

The Registered Ports are in the range 1024-49151.

1109		kpop (Kerberos POP)		tcp
1167		phone (Chiamata in conferenza)		udp
1433		ms-sql-s (Microsoft-**SQL-Server**)		tcp/udp
1434		ms-sql-m (Microsoft-**SQL-Monitor**)		tcp/udp
1512		wins (Microsoft Windows Internet Name Service)		tcp/udp
1524	ingres	ingreslock		tcp
1547		Laplink		tcp
1666		maze		udp
1701		l2tp (Layer Two Tunneling Protocol)		udp
1723		**PPTP** (Point-to-point tunnelling protocol)		tcp
1812		radius (Protocollo di autenticazione RA-DIUS)		udp
1813		radacct (Protocollo accounting RADIUS)		udp
2001		**HTTP server administration & DCM** (IBM i)	as-admi	tcp
2002		**New Navigator for i** (IBM i) – istanza ADMIN1 da 7.3 e 7.4 09/2021 HTTP transport		tcp
2003		**New Navigator for i** (IBM i) – istanza ADMIN1 da 7.3 e 7.4 09/2021 HTTPS transport		
2004		**Heritage Navigator for i** (IBM i) – istanza ADMIN2 da 7.1 SF99368 lev. 44 da 7.2 SF99713 lev. 18 da 7.3 SF99722 lev. 5 HTTP transport		tcp
2005		**Heritage Navigator for i** (IBM i) – istanza ADMIN2 HTTPS transport		tcp
2006		**new DCM** (IBM i) – istanza ADMIN3 HTTP transport		tcp
2007		**new DCM** (IBM i) – istanza ADMIN3 HTTPS transport		tcp
2008		**Navigator for i** (IBM i) – istanza ADMIN4 HTTP transport		tcp
2010		**HTTP server administration** (IBM i)	as-admi	tcp-ssl

2011		**IBM i Mobile access** – istanza ADMIN5 HTTP transport		tcp
2012		**IBM i Mobile access** – istanza ADMIN5 HTTPS transport		
2015		**New Navigator for i** (IBM i) – istanza ADMIN1 da 7.3 e 7.4 09/2021 Bootstrap		tcp
2016		**Heritage Navigator for i** (IBM i) – istanza ADMIN2 Bootstrap		
2017		**new DCM** (IBM i) – istanza ADMIN3 bootstrap		tcp
2018		**Navigator for i** (IBM i) – istanza ADMIN4 bootstrap		tcp
2019		**IBM i Mobile access** – istanza ADMIN5 bootstrap		Tcp
2049	nfs	nfsd (Server NFS)		udp
2053		knetd (Kerberos de-multiplexor)		tcp
2105		eklogin		tcp
2300		Operations console su LAN		tcp
2301		Operations console su LAN		tcp
2323		Operations console su LAN		tcp
2850 2851 2852		RDi (QSHell)		tcp
2967		Symantec Antivirus client		tcp
2968		Symantec Antivirus client		tcp
3001		Operations console su LAN		tcp
3002		Operations console su LAN		tcp
3306		MySQL		tcp
3389		servizio desktop remoto di Windows XP		tcp
3825		RDi (debug)		tcp
4004		**WebFacing** (IBM i)		tcp
4026		**System i Debugger**		tcp
4300		RDi (lavori interattivi)		tcp
4400		**WebGate400** (IBM i)		tcp
5001		ttcp		tcp/udp
5010		POP3 (MAPI)	pop3	tcp
5061		**Workstation gateway** (IBM i)		tcp
5555		rmt		tcp
5555		IBM i Access (Management Central)	as-mgtc	tcp
5556		Mtb		tcp
5566		IBM i Access (Management Central)	as-mgtc	tcp-ssl
5641		**PC AnyWhere**		tcp
5989		CIM		
7000		**Board** (comunicazione tra BoardClient e BoardMaster)		tcp

7045		**Dynamics NAV** (management services)		
7046		**Dynamics NAV** (client services)		tcp
7047		**Dynamics NAV** (soap services)		tcp
7048		**Dynamics NAV** (OData services)		
7794		**WebGate400** (IBM i)		tcp
8018		EZ4WebServ (Easy400)		tcp
8470		IBM i Access (central and license management) RDi (RSE)	as-central	tcp
8471		IBM i Access (database)	as-database	tcp
8472		IBM i Access (data queue) RDi (lavori interattivi)	as-dtaq	tcp
8473		IBM i Access (network drives/file) RDi (IFS)	as-file	tcp
8474		IBM i Access (network printers)	as-netprt	tcp
8474[1]		IBM i Access (NetServer)		tcp
8475		IBM i Access (remote command) RDi (RSE)	as-rmtcmd	tcp
8476		IBM i Access (Sign-on) RDi (RSE)	as-signon	tcp
8477[2]		IBM i Access (Network drives)	as-netd	tcp
8478		IBM i Access (File transfer)	as-tran	tcp
8479		IBM i Access (Virtual print)	as-vrtp	tcp
8480		IBM i Access (USF)	as-usf	tcp
9100		default device remoto stampante		tcp
9470		IBM i Access (central and license management) RDi (RSE)	as-central	tcp-ssl
9471		IBM i Access (database)	as-database	tcp-ssl
9472		IBM i Access (data queue) RDi (lavori interattivi)	as-dtaq	tcp-ssl
9473		IBM i Access (network drives/file) RDi (IFS)	as-file	tcp-ssl
9474		IBM i Access (network printers)	as-netprt	tcp-ssl
9475		IBM i Access (remote command) RDi (RSE)	as-rmtcmd	tcp-ssl
9476		IBM i Access (Sign-on) RDi (RSE)	as-signon	tcp-ssl
9480		IBM i Access (USF)	as-usf	tcp-ssl
9535		man (Server Man remoto)		tcp
9536		W		tcp
9537		Mantst		tcp
10000		bnews		tcp

[1] This port is only used internally so does not have to be set in your firewall IP filtering.

[2] Port 8477, 8478, 8479 is used only by 5763XK1 IBM product

10000		rscs0		udp
10001		queue		tcp
10001		rscs1		udp
10002		poker		tcp
10002		rscs2		udp
10003		gateway		tcp
10003		rscs3		udp
10004		remp		tcp
10004		rscs4		udp
10005		rscs5		udp
10006		rscs6		udp
10007		rscs7		udp
10008		rscs8		udp
10009		rscs9		udp
10010		rscsa		udp
10011		rscsb		udp
10012		qmaster		tcp
10012		master		udp
10101		**Panthera** (default istanza Panth01)		tcp
10102		**Panthera** (default batch istanza Panth01)		tcp
10131		**Panthera** (default server stampa istanza Panth01)		tcp
10201		**Panthera** (default istanza Panth02)		tcp
11000		vwkernel[1]		tcp
11001		vwd		tcp
11002		vwlogger		tcp
11331		DB2 Web Query		tcp
12401		IBM i Administration Runtime Expert (ARE)		
16324		**Heritage Navigator for i** (IBM i) – istanza ADMIN2 DOJO port		
29510		IBM i System Director		
29511		IBM i System Director		
38293		Symantec Antivirus client		udp

DYNAMIC AND/OR PRIVATE PORTS

The Dynamic and/or Private Ports are those from 49152 through 65535

49000		**Dynamics NAV** (help)		tcp
50000		**DB2 LUW**		tcp

[1] This port (11000, 11001, 11002) and service must match the port number and service name in the services file of your warehouse server.

50000		db2cDB2 (connection port for the DB2 instance DB2)		tcp
50001		db2iDB2 (interrupt port for the DB2 instance DB2)		tcp

Note for IBM i[1]

- Ports **449**, 8xxx and 9xxx can be started with the STRHOSTSVR *ALL command.

IBM i Access Function	Servers used	Ports[2]
PC5250 display and printer emulation	sign-on, central, telnet	23 (992)[3], 8470 (9470)[4], 8476 (9476)[5]
Data Transfer	sign-on, central, database	8470 (9470), 8471 (9471)[6], 8476 (9476)
Base Operations Navigator Support	sign-on, remote command	8475 (9475), 8476 (9476)
All Operations Navigator function	sign-on, remote command, file, print, database, Web admin, Mgmt central, USF, netserver, LDAP, data queue	137[7], 138, 139, 389, 445[8], 2001 (2010)[9], 5544 e 5555 (5566 e 5577)[10], 8471 (9471), 8472 (9472)[11], 8473 (9473)[12], 8474 (9474)[13], 8475 (9475)[14], 8476 (9476), 8480 (9480)[15]
ODBC	sign-on, database	8471 (9471), 8476 (9476)
OLE DB	sign-on, database, DDM, remote command, data queue	446[16], 8471 (9471), 8472 (9472), 8475 (9475), 8476 (9476)
AFP viewer	sign-on, print	8474 (9474), 8476 (9476)
Client Access Install	Netserver	137, 138, 139, 445
Incoming remote command	uses no specific server and AS/400 port will vary. PC-side port is 512	
Fax support	sign-on, print	8474 (9474), 8476 (9476)

1 From: https://www-304.ibm.com/support/docview.wss?uid=nas1acc12fda96496e4b8625668f007ab75f
2 All functions use port **449** (server mapper)
3 23/992: telnet
4 8470/9470: license management
5 8476/9476: signon verification
6 8471/9471: database access
7 137-139: NetServer (netbios)
8 445: NetServer (cifs)
9 2001/2010: http administration
10 5544 e 5555/5566: management central
11 8472/9472: data queues
12 8473/9473: network drives
13 8474/9474: network printers
14 8475/9475: remote command
15 8480/9480: ultimedia services
16 446: DRDA

Operations console[1]		67/68[2], 2100/2101[3], 2112[4], 2124[5], **2300** [6], 2301[7], **2323** [8], **3001** [9], **3002** [10]
Other		
POP3 (MAPI)		5010
DDM		447 (448)
DHCP monitor		(942)
IBM Anynet (ObjectConnect)		397
NetServer		137, 138 e 139 (netBios), 445 (CIFS)
Service Tools Server		3000
RunRmtCmd	Rexec	512
System i Debugger		4026
Navigator for i	admin1 admin2 admin3 admin4	2001 (2010)[11], 2002[12] (2003), 2004 (2005)[13], 2006[14] (2007), 2008, 2011 (2012), 2015, 2016, 2017, 2018, 2019, 8421, 8422, 9510-9515, 427, 22, 5988, 5989, 6988, 6989, 8470-8476, 16324, 449 9470-9476 (only for ssl)
Mobile Access	admin5	2011 (2012), 2019
RDi		
RSE		8470 (9470), 8475 (9475), 8476 (9476), 446 (448), 449
IFS		8473 (9473)
Lavori interattivi		8472 (9472), 4300
Debug		3825, (22)
QShell		2850, 2851, 2852

Port 8477, 8478, 8479 is used only by 5763XK1 IBM product.

[1] A local console on a network (LAN) uses ports 2300, 2323, 3001, and 3002.
[2] BOOTP
[3] Remote DST
[4] Used between cwbopaoc.exe and cwbopcon.exe
[5] Piranha
[6] Direct cable
[7] Linux
[8] LAN
[9] Service tools server
[10] Secure STS
[11] http administration (as-admin)
[12] New navigator for i (da 7.3 09/2021)
[13] Navigator for i (as-nav)
[14] New DCM (Digital Certificate Manager)

NetServer use also the port 8474, but is only used internally so does not have to be set in your firewall IP filtering.

Between bracket () the port used over SSL connection

Note for Microsoft Dynamics NAV 2013 R2

Function	**Servers**	**Ports**
	management services	7045
	client services	7046
	soap services	7047
	OData services	7048
	ms-sql-s (Microsoft-SQL-Server)	1433
	ms-sql-m (Microsoft-SQL-Monitor)	1434
	help	49000

Note for Panthera 4.7

Function	**Servers**	**Ports**
	Panth01	10101
Batch	Panth01	10102
Server stampa	Panth01	10131
	Panth02	10201

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