

IBM PC Local Area Network  
Planning Worksheet

I: 1st Cluster of 1 to 8 Nodes: (1-8)

Cluster Location:				_____
	SNA?	PC?	Where ?	Who
	-	-	-	-
1.)	Y	XT	Vacant	_____
2.)	N	AT	Vacant	_____
3.)	Y	PC1	Vacant	_____
4.)	N	PC2	Vacant	_____
5.)	Y	XT	Vacant	_____
6.)	N	etc	Vacant	_____
7.)	N	etc	Vacant	_____
8.)	N	etc	Vacant	_____
	-	-	-	-

Qty.	Part No.	Description
------	----------	-------------

-	-	-
---	---	---

Network Publications:

___	-	6322505PC Network Technical Reference
___	-	9999999DOS 3.1 Technical Reference

Network Hardware:

1	-	5178001PC Network Translator Unit
___	-	1501205PC SDLC Communications Adapter

Node Hardware:

0	-	6450213PC Network Adapter
___	-	9991005BIOS Update Kit (old PCs only)

Node Cable: (one cable per node)

___	-	6450234 25 ft. Network Cable
___	-	6450235 50 ft. Network Cable
___	-	6450236 100 ft. Network Cable
___	-	6450237 200 ft. Network Cable

Node Software:

0	-	6024211PC-DOS ver. 3.1
---	---	------------------------

	0 -		6024195	PC Network Program	
	0 -		6322526	PC Network SNA Emulation Program	
-	-	-	-	-	-
			#DIV/0!	= Avg. Cost per Node	Cluster
=	=	=	=	=	=

## IBM PC Local Area Network Planning Worksheet

### II: 2nd Cluster of 1 to 8 Nodes: (9-16)

Cluster Location:				
	SNA?	PC?	Where	Who
	-	-	-	-
1.)	Y	XT	Vacant	_____
2.)	N	AT	Vacant	_____
3.)	Y	PC1	Vacant	_____
4.)	N	PC2	Vacant	_____
5.)	Y	XT	Vacant	_____
6.)	N	etc	Vacant	_____
7.)	N	etc	Vacant	_____
8.)	N	etc	Vacant	_____
	-	-	-	-

Qty.		Part No.	Description
------	--	----------	-------------

-	-	-	-
		Network Publications:	
___	-	6322505	PC Network Technical Reference
___	-	9999999	DOS 3.1 Technical Reference

		Network Hardware:	
1	-	6450230	PC Network Base Expander

		Network Cable - One of the following:	
___	-	6450231	1 ft. Short-Distance Kit
___	-	6450232	400 ft. Medium-Distance Kit

\_\_\_ - 6450233800 ft. Long Distance Kit

Node Hardware:

0 - 6450213PC Network Adapter  
\_\_\_ - 9991005BIOS Update Kit (old PCs only)

Node Cable: (one cable per node)

\_\_\_ - 6450234 25 ft. Network Cable  
\_\_\_ - 6450235 50 ft. Network Cable  
\_\_\_ - 6450236100 ft. Network Cable  
\_\_\_ - 6450237200 ft. Network Cable

Node Software:

0 - 6024211PC-DOS ver. 3.1  
0 - 6024195PC Network Program  
0 - 6322526PC Network SNA Emulation Program  
- - - - -  
#DIV/0!= Avg. Cost per Node Cluster  
= = = = =

IBM PC Local Area Network  
Planning Worksheet

III: 3rd Cluster of 1 to 8 Nodes: (17-24)

Cluster Location:				
	SNA?	PC?	Where	Who
	-	-	-	-
1.)	Y	XT	Vacant	_____
2.)	N	AT	Vacant	_____
3.)	Y	PC1	Vacant	_____
4.)	N	PC2	Vacant	_____
5.)	Y	XT	Vacant	_____
6.)	N	etc	Vacant	_____
7.)	N	etc	Vacant	_____

8.) N etc Vacant \_\_\_\_\_  
 - - - -

Qty. Part No. Description

- - - -

Network Publications:

\_\_\_ - 6322505 PC Network Technical Reference  
 \_\_\_ - 9999999 DOS 3.1 Technical Reference

Network Cable - One of the following:

\_\_\_ - 6450231 1 ft. Short-Distance Kit  
 \_\_\_ - 6450232 400 ft. Medium-Distance Kit  
 \_\_\_ - 6450233 800 ft. Long Distance Kit

Node Hardware:

0 - 6450213 PC Network Adapter  
 \_\_\_ - 9991005 BIOS Update Kit (old PCs only)

Node Cable: (one cable per node)

\_\_\_ - 6450234 25 ft. Network Cable  
 \_\_\_ - 6450235 50 ft. Network Cable  
 \_\_\_ - 6450236 100 ft. Network Cable  
 \_\_\_ - 6450237 200 ft. Network Cable

Node Software:

0 - 6024211 PC-DOS ver. 3.1  
 0 - 6024195 PC Network Program  
 0 - 6322526 PC Network SNA Emulation Program

- - - - -  
 #VALUE! = Avg. Cost per Node Cluster  
 = = = = =

IV: 4th Cluster of 1 to 8 Nodes: (25-32)

Cluster Location:				Who
SNA?	PC?	Where		
-	-	-	-	
1.)	Y	XT	Vacant	
2.)	N	AT	Vacant	
3.)	Y	PC1	Vacant	
4.)	N	PC2	Vacant	
5.)	Y	XT	Vacant	
6.)	N	etc	Vacant	
7.)	N	etc	Vacant	
8.)	N	etc	Vacant	
-	-	-	-	

Qty.	Part No.	Description
-	-	-

Network Publications:

___	-	6322505PC Network Technical Reference
___	-	9999999DOS 3.1 Technical Reference

Network Cable - One of the following:

___	-	6450231 1 ft. Short-Distance Kit
___	-	6450232400 ft. Medium-Distance Kit
___	-	6450233800 ft. Long Distance Kit

Node Hardware:

0	-	6450213PC Network Adapter
___	-	9991005BIOS Update Kit (old PCs only)

Node Cable: (one cable per node)

___	-	6450234 25 ft. Network Cable
___	-	6450235 50 ft. Network Cable
___	-	6450236100 ft. Network Cable
___	-	6450237200 ft. Network Cable

Node Software:

0	-	6024211PC-DOS ver. 3.1
0	-	6024195PC Network Program

	0 -	6322526	PC Network SNA Emulation Program
-	-	-	-
		#VALUE!	= Avg. Cost per Node Cluster
=	=	=	=

Bill of Materials

P/N	Description
-	-
0	
1501205	PC SDLC Communications Adapter
5178001	PC Network Translator Unit
6024195	PC Network Program
6024211	PC-DOS ver. 3.1
6322505	PC Network Technical Reference
6322526	PC Network SNA Emulation Program
6450213	PC Network Adapter
6450230	PC Network Base Expander
6450231	1 ft. Short-Distance Kit
6450232	400 ft. Medium-Distance Kit
6450233	800 ft. Long Distance Kit
6450234	25 ft. Network Cable
6450235	50 ft. Network Cable
6450236	100 ft. Network Cable
6450237	200 ft. Network Cable
9991005	BIOS Update Kit (old PCs only)
9999999	DOS 3.1 Technical Reference
-	-
=	=

PlanLan.Wks - Copyright 1985, Larry A. Ostgaard

Release 1.0 - No Macros

This Lotus 123 worksheet template may be copied, used & distributed but not sold or otherwise used for commercial purposes unless permission in writing from Larry A. Ostgaard is obtained prior to such commercial

use. This release is not complete, two parts are not priced, nor are IBM Part Numbers available for these two items.

Release 1.0 is only available on public bulletin boards. Release 2.0 and later releases will contain improvements, including macros, as well as corrections of any unknown bugs. Also future releases will contain new products, both IBM and 3rd party, as well as price & part revisions.

Release 2.0 will be available by mail only from:

Larry A. Ostgaard  
P. O. Box 3146  
Oak Park, IL 60303

Cost to obtain copy by mail of Release 2.0 : \$10.00

When will Release 2.0 be available? : After March 15, 1985

Don't send in order before then unless you don't mind the wait and will tolerate a slip on the release date. I won't cash your check until sent. Please send comments, bug reports, etc to the above address. Please feel free to send 'wish list' ideas for spreadsheets. If I decide to develop WKS templates from such an idea, I will trade rights to ideas for free copies of any WKS template in my library.

Note: The best strategy for populating clusters is to leave a few vacant nodes per cluster, providing room to grow. For example, if 8 nodes will be in the first phase of the network, put 4 on each of two clusters. Then 4 empty nodes on each half filled cluster can be "backfilled" as needs warrant. This will keep the clusters more geographically tight, minimizing spaghetti wiring as nodes are added.

The incremental cost of providing for expansion in this manner is negligible. Work through a few configurations and you will see that after 6-8 nodes, the cost stabilizes at \$850 - 1000, per node (or \$1250 to 1400 with SNA emulation), depending on wiring runs, options, etc.

FOOTNOTES

(#1) - These publications are unnecessary except for a very sophisticated user, particularly a programmer developing software for the network and PCs. Extremely rarely will an end user need access to these manuals. Perhaps one set for reference for all users will do except for a network of users involved in software development.

(#2) - These items required only to provide mainframe communications to the nodes on the network. Purchase one license for each attached PC that will be used for terminal emulation. Only one communications adapter required for each 32 emulation sessions. More than 12 concurrent sessions, however, will require dedicated PC(s) to function as communications server(s) due to response degradation.

(#3) - PCs made before 10/26/82 (serial numbers 0300960 or lower) must have the BIOS Update Kit installed to operate on the IBM PC Local Area Network.

(#4) - The IBM PC Network Program is not ABSOLUTELY required for minimal access to some network services. However, it is HIGHLY recommended for full network access and access to future network applications.

Node Totals:

-	-
With SNA:	0
Filled:	0
Vacant:	8

\$ each	\$ extended
-	-
195	#VALUE!(#1)
DOS 3.1 Techni	#VALUE!(#1)
595	595
240	#VALUE!(#2)
695	0
BIOS Update Kii	#VALUE!(#3)
29	#VALUE!
39	#VALUE!
59	#VALUE!
99	#VALUE!
65	0

	75	0(#4)
	375	0(#2)
-	-	
Total:		595
=	=	

Node Totals:

-	-	
With SNA:		0

Filled:		0
---------	--	---

Vacant:		8
---------	--	---

	\$ each	\$ extended
-	-	
	195	#VALUE!(#1)
DOS 3.1 Techni		#VALUE!(#1)

	59	59
--	----	----

	39	#VALUE!
--	----	---------

	79	#VALUE!
--	----	---------

	89	#VALUE!
	695	0
BIOS Update Kii		#VALUE!(#3)
	29	#VALUE!
	39	#VALUE!
	59	#VALUE!
	99	#VALUE!
	65	0
	75	0(#4)
	375	0(#2)
-	-	
Total:		59
=	=	

Node Totals:

-	-	
With SNA:		0
Filled:		0
Vacant:		8

	\$ each	\$ extended
	-	-
	195	#VALUE!(#1)
DOS 3.1 Techni		#VALUE!(#1)
	39	#VALUE!
	79	#VALUE!
	89	#VALUE!
	695	0
BIOS Update Kii		#VALUE!(#3)
	29	#VALUE!
	39	#VALUE!
	59	#VALUE!
	99	#VALUE!
	65	0
	75	0(#4)
	375	0(#2)
	-	-
Total:		#VALUE!
	=	=

Node Totals:

-	-
With SNA:	0
Filled:	0
Vacant:	8

\$ each	\$ extended
-	-
195	#VALUE!(#1)
DOS 3.1 Techni	#VALUE!(#1)
39	#VALUE!
79	#VALUE!
89	#VALUE!
695	0
BIOS Update Kii	#VALUE!(#3)
29	#VALUE!
39	#VALUE!
59	#VALUE!
99	#VALUE!
65	0
75	0(#4)

	375	0(#2)
-	-	
Total:		#VALUE!
=	=	

	\$ each	Network Quantity	Network \$extended
-	-	-	-
	240		#VALUE!
	595	1	595
	75	0	0
	65	0	0
	195		#VALUE!
	375	0	0
	695	0	0
	59	1	59
	39	#VALUE!	#VALUE!
	79	#VALUE!	#VALUE!
	89	#VALUE!	#VALUE!
	29	#VALUE!	#VALUE!
	39	#VALUE!	#VALUE!
	59	#VALUE!	#VALUE!
	99	#VALUE!	#VALUE!
n/a		#VALUE!	#VALUE!
n/a		#VALUE!	#VALUE!
-	-	-	-
			654
=	=	=	