

Bridge Planning Chart

Date _____

Bridge Name or Number _____

Check one: Load using a DOS command _____ Load automatically _____

Section 1 — Physical Connections

Location

Computer No.

Cable No. _____
Type of Cable _____

Faceplate No. _____

Type of Primary Adapter
Type of Alternate Adapter

Cable No. _____
Type of Cable _____

Faceplate No. _____

Type of Connecting Hardware

Token-Ring Network	PC Network
Location _____	Location _____
Access Unit No. _____	
Lobe Receptacle _____	

Token-Ring Network	PC Network
Location _____	Location _____
Access Unit No. _____	
Lobe Receptacle _____	

Section 2 — Bridge Installation Parameters

	Primary Adapter	Alternate Adapter
Adapter name		
Adapter data rate (token-ring network adapter only)		
Locally administered address (Defaults = 000000000000)		
Shared RAM address (Defaults = 0000) (token-ring network adapter only)		
Early Token Release (Defaults = N) (token-ring network adapter only)		

Continued on other side

Section 3 — Bridge Configuration Parameters

Check one: Alter configuration ____ Use defaults ____

Bridge number (Default = 1)	
LAN segment number connected to primary adapter (Default = 001)	
LAN segment number connected to alternate adapter (Default = 002)	
Frame forwarding active (Default = Y)	
Bridge performance threshold (Default = 10)	
Restart on error (Default = Y)	
Drive for memory dump on error (Default = 0)	
Drive for error log (Default = 0)	

	Primary Adapter	Alternate Adapter
Hop count limit (Defaults = 7)		
Parameter server (Defaults = Y)		
Error monitor (Defaults = Y)		
Configuration report server (Defaults = Y)		

Single-route broadcast selection mode (Default = M)	
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For manual selection mode only:	Primary Adapter	Alternate Adapter
Single-route broadcast (Defaults = Y)		

For automatic selection mode only:	
Bridge label (Default = 8000)	
Path cost (Default = 0000)	

	Old	New
Link password 0 (Default = 00000000)		
Link password 1 (Default = 00000000)		
Link password 2 (Default = 00000000)		
Link password 3 (Default = 00000000)		

Write a dash (—) when using default.

Date _____
 Bridge Name or Number _____
 Bridge Program Level _____
 LAN Segment Types _____

At the bridge computer:

1. Display the first Configuration Data panel.
2. Record the Bridge Program Level and LAN Segment Types on the worksheet.
3. Display the Bridge Program Performance Counters panel.
4. Press F9 (Reset) to clear the counters.
5. Wait ____ minutes.
6. Refresh (press F5) to display the counters again.
7. In the spaces provided below, write the information from the panel.
8. Add the values for each LAN segment to obtain each Bridge Total.

Counters reset on ____ - ____ - ____ at ____ : ____ : ____

Counters refreshed on ____ - ____ - ____ at ____ : ____ : ____

Frames Forwarded Values for:

	LAN Segment _____	+ LAN Segment _____	= Bridge Total
Broadcast frames	(A1) _____	+ (A2) _____	= (A3) _____
Broadcast bytes	(B1) _____	+ (B2) _____	= (B3) _____
Non-broadcast frames	(C1) _____	+ (C2) _____	= (C3) _____
Non-broadcast bytes	(D1) _____	+ (D2) _____	= (D3) _____

Frames Not Forwarded Because:

	LAN Segment _____	+ LAN Segment _____	= Bridge Total
Target LAN segment inoperative	(E1) _____	+ (E2) _____	= (E3) _____
Adapter congestion	(F1) _____	+ (F2) _____	= (F3) _____
Other reasons	(G1) _____	+ (G2) _____	= (G3) _____

Other Frames Processed by the Bridge:

	LAN Segment _____	+ LAN Segment _____	= Bridge Total
Frames not routed across this bridge	(H1) _____	+ (H2) _____	= (H3) _____

Bridge Performance Analysis Calculations Worksheet

Date _____ Bridge Identification _____
 Bridge Program Level _____ LAN Segment Types _____
 Measurement wait time in seconds: J = _____

Broadcast Frames Forwarded:

LAN Segment _____	LAN Segment _____	Bridge Total
Frames per second:		
$\frac{A1}{J} = K1$ _____	$\frac{A2}{J} = K2$ _____	$\frac{A3}{J} = K3$ _____
Bytes per second:		
$\frac{B1}{J} = L1$ _____	$\frac{B2}{J} = L2$ _____	$\frac{B3}{J} = L3$ _____
Mean frame bytes:		
$\frac{B1}{A1} =$ _____	$\frac{B2}{A2} =$ _____	$\frac{B3}{A3} =$ _____

Non-Broadcast Frames Forwarded:

LAN Segment _____	LAN Segment _____	Bridge Total
Frames per second:		
$\frac{C1}{J} = M1$ _____	$\frac{C2}{J} = M2$ _____	$\frac{C3}{J} = M3$ _____
Bytes per second:		
$\frac{D1}{J} = N1$ _____	$\frac{D2}{J} = N2$ _____	$\frac{D3}{J} = N3$ _____
Mean frame bytes:		
$\frac{D1}{C1} =$ _____	$\frac{D2}{C2} =$ _____	$\frac{D3}{C3} =$ _____

Total Frames Forwarded:

LAN Segment _____	LAN Segment _____	Bridge Total
Frames per second:		
$K1 + M1 =$ _____	$K2 + M2 =$ _____	$K3 + M3 =$ _____
Bytes per second:		
$L1 + N1 =$ _____	$L2 + N2 =$ _____	$L3 + N3 =$ _____
Mean frame bytes:		
$\frac{B1 + D1}{A1 + C1} =$ _____	$\frac{B2 + D2}{A2 + C2} =$ _____	$\frac{B3 + D3}{A3 + C3} =$ _____

(Continued on other side)

Total Frames Received by the Bridge:

LAN Segment _____	LAN Segment _____	Bridge Total
$(A1 + C1 + E1 + F1 + G1 + H1) =$	$(A2 + C2 + E2 + F2 + G2 + H2) =$	$(A3 + C3 + E3 + F3 + G3 + H3) =$
Q1 _____	Q2 _____	Q3 _____

Total Frames Routed to the Bridge (Other Than During Adapter Congestion):

LAN Segment _____	LAN Segment _____	Bridge Total
$(A1 + C1 + E1 + G1) =$	$(A2 + C2 + E2 + G2) =$	$(A3 + C3 + E3 + G3) =$
P1 _____	P2 _____	P3 _____

Percentages:

LAN Segment _____	LAN Segment _____	Bridge Total
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Percent of Frames Not Forwarded; Target LAN Segment Inoperative:

$\frac{(100 \times E1)}{P1} =$ _____	$\frac{(100 \times E2)}{P2} =$ _____	$\frac{(100 \times E3)}{P3} =$ _____
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Percent of Frames Not Forwarded; Other Reasons:

$\frac{(100 \times G1)}{P1} =$ _____	$\frac{(100 \times G2)}{P2} =$ _____	$\frac{(100 \times G3)}{P3} =$ _____
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Percent of Frames Not Forwarded (Other Than During Adapter Congestion):

$\frac{100 \times (E1 + G1)}{P1}$	$\frac{100 \times (E2 + G2)}{P2}$	$\frac{100 \times (E3 + G3)}{P3}$
= _____	= _____	= _____

Percent of Frames Not Processed During Adapter Congestion:

$\frac{(100 \times F1)}{P1} =$ _____	$\frac{(100 \times F2)}{P2} =$ _____	$\frac{(100 \times F3)}{P3} =$ _____
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Percent of Total Frames That Arrived at the Bridge and Were Not Forwarded:

$\frac{100 \times (E1 + F1 + G1)}{Q1}$	$\frac{100 \times (E2 + F2 + G2)}{Q2}$	$\frac{100 \times (E3 + F3 + G3)}{Q3}$
= _____	= _____	= _____