

#	Node 1	Node 2	Node 3	Node 4	1x2	1x3	1x4	2x3	2x4	3x4	B1	B2	B3	B4	# Groups	Other Notes	Tested
1	UP	UP	X	X	100	X	X	X	X	X	Leader	Member			1	Stable Groups	5/8/2012
2	UP	UP	X	X	100	X	X	X	X	X	Member	Leader			1	Stable Groups	5/8/2012
3	UP	UP	X	X	0	X	X	X	X	X	Leader	Leader			2	No Elections	5/8/2012
4	UP	UP	X	X	n	X	X	X	X	X	Leader/Member	Leader/Member			1 or 2	Decreasing n: More groups form, up until n inhibits leader discovery.	5/8/2012
5	UP	UP	UP	X	100	100	X	100	X	X	Leader	Member	Member		1	Stable Groups	5/8/2012
6	UP	UP	UP	X	100	100	X	100	X	X	Member	Leader	Member		1	Stable Groups	5/8/2012
7	UP	UP	UP	X	100	100	X	100	X	X	Member	Member	Leader		1	Stable Groups	5/8/2012
8	UP	UP	UP	X	0	0	X	0	X	X	Leader	Leader	Leader		3	No Elections	5/8/2012
9	UP	UP	UP	X	0	100	X	100	X	X	Leader	Leader	Member		2	Stable Groups	5/8/2012
10	UP	UP	UP	X	0	100	X	100	X	X	Member	Member	Leader		1	Stable Groups	5/8/2012
11	UP	UP	UP	X	100	0	X	100	X	X	Leader	Member	Leader		2	Stable Groups	5/8/2012
12	UP	UP	UP	X	100	0	X	100	X	X	Member	Leader	Member		1	Stable Groups	5/8/2012
13	UP	UP	UP	X	100	100	X	0	X	X	Leader	Member	Member		1	Stable Groups	5/8/2012
14	UP	UP	UP	X	100	100	X	0	X	X	Member	Leader	Leader		2	Stable Groups	5/8/2012
15	UP	UP	UP	X	n	100	X	100	X	X	Leader	Member	Member		1	Unstable Group	5/8/2012
16	UP	UP	UP	X	n	100	X	100	X	X	Member	Leader	Member		1	Stable Group	5/8/2012
17	UP	UP	UP	X	n	100	X	100	X	X	Member	Member	Leader		1	Stable Group	5/8/2012
18	UP	UP	UP	X	n	100	X	100	X	X	Leader	Leader	Member		2	Increasing chance to settle into single group with increasing n.	5/8/2012
19	UP	UP	UP	X	n	100	X	100	X	X	Leader	Member	Leader		2	Symmetry	5/8/2012
20	UP	UP	UP	X	n	m	X	100	X	X	Leader	Member	Leader		2	Increasing chance to settle into single group with increasing n,m	5/8/2012
21	UP	UP	UP	X	n	m	X	100	X	X	Member	Leader	Member		1	Stability of group depends on n. Most likely configuration	5/8/2012
22	UP	UP	UP	X	n	m	X	100	X	X	Leader	Leader	Member		2	Increasing chance to settle into single group with increasing n,m	5/8/2012
23	UP	UP	UP	X	n	m	X	p	X	X	Leader	Member	Member		1	Stability depends on n, m	5/8/2012
24	UP	UP	UP	X	n	m	X	p	X	X	Leader	Leader	Member		2	Increasing chance to settle into one group depending on n	5/8/2012
25	UP	UP	UP	X	n	m	X	p	X	X	Leader	Leader	Leader		3	Chances of merge decreases with n,m,p	5/8/2012
26	UP	UP	UP	UP	100	100	100	100	100	100	Leader	Member	Member	Member	1	Stable	5/8/2012
27	UP	UP	UP	UP	0	0	0	0	0	0	Leader	Leader	Leader	Leader	4	No Elections	5/8/2012
28	UP	UP	UP	UP	100	100	100	100	100	0	Leader	Member	Member	Member	1	Stable	5/8/2012
29	UP	UP	UP	UP	100	100	100	100	100	0	Member	Member	Leader	Leader	2	Stable as long as 3 is a leader.	5/8/2012
30	UP	UP	UP	UP	100	100	100	100	0	0	Leader	Member	Member	Member	1	Stable	5/8/2012
31	UP	UP	UP	UP	100	100	100	100	0	0	Member	Leader	Member	Leader	2	Stable as long as 2 or 3 are leader	5/8/2012
32	UP	UP	UP	UP	100	100	100	0	0	0	Leader	Member	Member	Member	1	Stable	5/8/2012
33	UP	UP	UP	UP	100	100	100	0	0	0	Leader	Member	Member	Member	1	Stable	5/8/2012
34	UP	UP	UP	UP	100	100	100	0	0	0	Member	Leader	Leader	Leader	3	Stable	5/8/2012
35	UP	UP	UP	UP	100	100	0	0	0	0	Leader	Member	Member	Leader	2	Stable	5/8/2012
36	UP	UP	UP	UP	100	0	0	0	0	0	Leader	Member	Leader	Leader	3	Stable	5/8/2012
37	UP	UP	UP	UP	100	0	0	0	0	100	Leader	Member	Leader	Member	2	Stable (Partition)	5/8/2012
38	UP	UP	UP	UP	100	100	0	100	0	100	Leader	Member	Member	Leader	2	Stable	5/8/2012
39	UP	UP	UP	UP	100	n	0	0	0	100	Leader	Member	Member	Member	1	Transient Partition, Increasing Stability with increasing n	5/8/2012
40	UP	UP	UP	UP	100	n	m	p	q	100	Leader	Member	Member	Member	1	Transient Partition, Other short lived groups form based on m,p,q	5/8/2012
FID TESTING																	