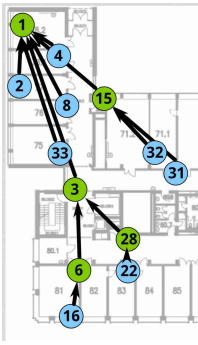
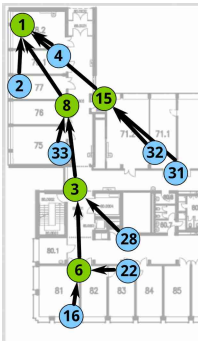
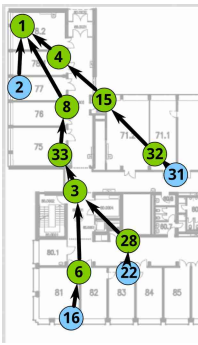
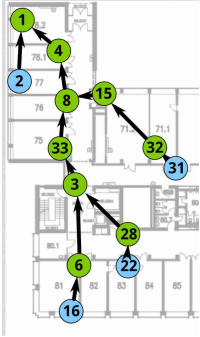


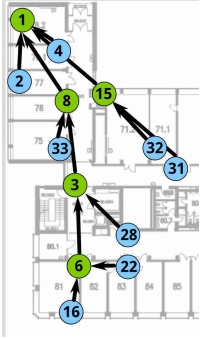
Topologievergleich ohne ACK

Topologie	Beschreibung	Datenrate		
		1	10	50
	<p>mote15 = M(15, [M(31), M(32)])</p> <p>mote6 = M(6, [M(16)])</p> <p>mote28 = M(28, [M(22)])</p> <p>mote3 = M(3, [mote6, mote28])</p> <p>sink = M(1, [mote3, M(33), M(2), M(4), M(8), mote15])</p>	<p>ID = 24204</p> <p>2015-11-23 16:35:44 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 20 (20 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 10 (10 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 62.69 % (0.63)</p> <p>average current dissipation 0.44 mA (0.98)</p> <p>Key performance indicator (KPI): 0.80</p>	<p>ID = 24205</p> <p>2015-11-23 16:57:44 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 60 (60 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 50 (50 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 40 (40 ok) packets</p> <p>22: 70 (70 ok) packets</p> <p>28: 70 (70 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 72.69 % (0.73)</p> <p>average current dissipation 0.55 mA (0.98)</p> <p>Key performance indicator (KPI): 0.85</p>	<p>ID = 24206</p> <p>2015-11-23 17:08:44 +01:00</p> <p>schedule_period = 30</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 190 (190 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 61.15 % (0.61)</p> <p>average current dissipation 1.03 mA (0.96)</p> <p>Key performance indicator (KPI): 0.79</p>
				<p>ID = 24282</p> <p>2015-11-26 00:06:00 +01:00</p> <p>schedule_period = 25</p> <p>1: 200 (200 ok) packets</p> <p>data yield 7.69 % (0.08)</p> <p>average current dissipation 0.65 mA (0.97)</p> <p>Key performance indicator (KPI): 0.53</p>
				<p>ID = 24283</p> <p>2015-11-26 00:17:00 +01:00</p> <p>schedule_period = 26</p> <p>32: 150 (150 ok) packets</p> <p>1: 190 (190 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 190 (190 ok) packets</p> <p>15: 170 (170 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 200 (200 ok) packets</p> <p>31: 150 (150 ok) packets</p> <p>data yield 94.23 % (0.94)</p> <p>average current dissipation 1.12 mA (0.96)</p> <p>Key performance indicator (KPI): 0.95</p>
	<p>mote6 = M(6, [M(16), M(22)])</p> <p>mote3 = M(3, [mote6, M(28)])</p> <p>mote8 = M(8, [M(33), mote3])</p> <p>mote15 = M(15, [M(31), M(32)])</p> <p>sink = M(1, [M(2), mote8, mote15, M(4)])</p>	<p>ID = 24218</p> <p>2015-11-24 03:14:53 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 200 (200 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 100.00 % (1.00)</p> <p>average current dissipation 0.45 mA (0.98)</p> <p>Key performance indicator (KPI): 0.99</p>	<p>ID = 24219</p> <p>2015-11-24 03:25:53 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 190 (190 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 99.62 % (1.00)</p> <p>average current dissipation 0.61 mA (0.98)</p> <p>Key performance indicator (KPI): 0.99</p>	<p>ID = 24220</p> <p>2015-11-24 03:36:53 +01:00</p> <p>schedule_period = 30</p> <p>1: 200 (200 ok) packets</p> <p>data yield 7.69 % (0.08)</p> <p>average current dissipation 0.82 mA (0.97)</p> <p>Key performance indicator (KPI): 0.52</p>
				<p>ID = 24285</p> <p>2015-11-26 00:28:00 +01:00</p> <p>schedule_period = 32</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 180 (180 ok) packets</p> <p>31: 190 (190 ok) packets</p> <p>data yield 98.85 % (0.99)</p> <p>average current dissipation 1.29 mA (0.95)</p> <p>Key performance indicator (KPI): 0.97</p>
	<p>mote6 = M(6, [M(16)])</p> <p>mote28 = M(28, [M(22)])</p> <p>mote3 = M(3, [mote6, mote28])</p> <p>mote33 = M(33, [mote3])</p> <p>mote8 = M(8, [mote33])</p> <p>mote32 = M(32, [M(31)])</p> <p>mote15 = M(15, [mote32])</p> <p>mote4 = M(4, [mote15])</p> <p>sink = M(1, [M(2), mote8, mote4])</p>	<p>ID = 24223</p> <p>2015-11-24 06:43:30 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 200 (200 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 100.00 % (1.00)</p> <p>average current dissipation 0.48 mA (0.98)</p> <p>Key performance indicator (KPI): 0.99</p>	<p>ID = 24224</p> <p>2015-11-24 06:54:30 +01:00</p> <p>32: 200 (200 ok) packets</p> <p>1: 200 (200 ok) packets</p> <p>2: 200 (200 ok) packets</p> <p>3: 200 (200 ok) packets</p> <p>4: 200 (200 ok) packets</p> <p>6: 200 (200 ok) packets</p> <p>33: 200 (200 ok) packets</p> <p>8: 200 (200 ok) packets</p> <p>15: 200 (200 ok) packets</p> <p>16: 200 (200 ok) packets</p> <p>22: 200 (200 ok) packets</p> <p>28: 200 (200 ok) packets</p> <p>31: 200 (200 ok) packets</p> <p>data yield 100.00 % (1.00)</p> <p>average current dissipation 0.76 mA (0.97)</p> <p>Key performance indicator (KPI): 0.98</p>	<p>ID = 24225</p> <p>2015-11-24 07:05:30 +01:00</p> <p>1: 200 (200 ok) packets</p> <p>data yield 7.69 % (0.08)</p> <p>average current dissipation 1.29 mA (0.95)</p> <p>Key performance indicator (KPI): 0.51</p>

	mote6 = M(6, [M(16)]) mote28 = M(28, [M(22)]) mote3 = M(3, [mote6, mote28]) mote33 = M(33, [mote3]) mote32 = M(32, [M(31)]) mote15 = M(15, [mote32]) mote8 = M(8, [mote33, mote15]) mote4 = M(4, [mote8]) sink = M(1, [M(2), mote4])	ID = 24226 2015-11-24 07:45:22 +01:00 32: 140 (140 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 100 (100 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 110 (110 ok) packets data yield 90.38 % (0.90) average current dissipation 0.51 mA (0.98) Key performance indicator (KPI): 0.94	ID = 24227 2015-11-24 07:56:22 +01:00 32: 80 (80 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 190 (189 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 170 (170 ok) packets 15: 120 (120 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 120 (120 ok) packets data yield 87.65 % (0.88) average current dissipation 0.87 mA (0.97) Key performance indicator (KPI): 0.92	ID = 24228 2015-11-24 08:07:22 +01:00 1: 200 (200 ok) packets data yield 7.69 % (0.08) average current dissipation 0.98 mA (0.96) Key performance indicator (KPI): 0.52
				ID = 24264 2015-11-25 09:31:41 +01:00 schedule_period = 55 32: 110 (110 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 180 (180 ok) packets 4: 190 (188 ok) packets 6: 160 (160 ok) packets 33: 180 (180 ok) packets 8: 140 (140 ok) packets 15: 90 (90 ok) packets 16: 200 (200 ok) packets 22: 180 (180 ok) packets 28: 200 (200 ok) packets 31: 160 (160 ok) packets data yield 84.15 % (0.84) average current dissipation 1.59 mA (0.94) Key performance indicator (KPI): 0.89
				ID = 24265 2015-11-25 10:15:13 +01:00 schedule_period = 57 32: 110 (110 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 160 (160 ok) packets 4: 190 (189 ok) packets 6: 180 (180 ok) packets 33: 190 (190 ok) packets 8: 160 (160 ok) packets 15: 50 (50 ok) packets 16: 190 (190 ok) packets 22: 200 (200 ok) packets 28: 160 (160 ok) packets 31: 180 (180 ok) packets data yield 83.42 % (0.83) average current dissipation 1.55 mA (0.94) Key performance indicator (KPI): 0.89
				ID = 24266 2015-11-25 10:26:13 +01:00 schedule_period = 59 32: 120 (120 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 150 (150 ok) packets 4: 190 (189 ok) packets 6: 160 (160 ok) packets 33: 190 (189 ok) packets 8: 150 (150 ok) packets 15: 80 (80 ok) packets 16: 180 (180 ok) packets 22: 180 (180 ok) packets 28: 170 (170 ok) packets 31: 180 (180 ok) packets data yield 82.62 % (0.83) average current dissipation 1.51 mA (0.94) Key performance indicator (KPI): 0.88
				ID = 24267 2015-11-25 10:37:13 +01:00 schedule_period = 53 1: 200 (200 ok) packets data yield 7.69 % (0.08) average current dissipation 1.30 mA (0.95) Key performance indicator (KPI): 0.51

Description	Relais	schedule_period	Pakets/s	Data Yield	Current consumption [mA]	KPI
sink = M(1, [mote3, M(33), M(2), M(4), M(8), mote15])	4	20	1	62.69%	0.44	0.8
sink = M(1, [M(2), mote8, mote15, M(4)])	4	20	1	100.00%	0.45	0.99
sink = M(1, [M(2), mote8, mote4])	8	20	1	100.00%	0.48	0.99
sink = M(1, [M(2), mote4])	8	20	1	90.38%	0.51	0.94
sink = M(1, [mote3, M(33), M(2), M(4), M(8), mote15])	4	20	10	72.69%	0.55	0.85
sink = M(1, [M(2), mote8, mote15, M(4)])	4	20	10	99.62%	0.61	0.99
sink = M(1, [M(2), mote8, mote4])	8	20	10	100.00%	0.76	0.98
sink = M(1, [M(2), mote4])	8	20	10	87.65%	0.87	0.92
sink = M(1, [mote3, M(33), M(2), M(4), M(8), mote15])	4	30	50	61.15%	1.03	0.79
sink = M(1, [M(2), mote8, mote15, M(4)])	4	32	50	98.85%	1.29	0.97
sink = M(1, [M(2), mote8, mote4])	8		50		1.29	
sink = M(1, [M(2), mote4])	8	55	50	84.15 %	1.59	0.89

Topologievergleich mit ACK

Topologie	Beschreibung	ACK	Datenrate		
			1	10	50
	<p>mote6 = M(6, [M(16), M(22)]) mote3 = M(3, [mote6, M(28)]) mote8 = M(8, [M(33), mote3]) mote15 = M(15, [M(31), M(32)])</p> <p>sink = M(1, [M(2), mote8, mote15, M(4)])</p>	yes	<p>ID = 24288 2015-11-26 01:58:10 +01:00 schedule_period = 400</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 200 (200 ok) packets data yield 100.00 % (1.00) average current dissipation 0.58 mA (0.98) Key performance indicator (KPI): 0.99</p>	<p>ID = 24289 2015-11-26 02:09:10 +01:00 schedule_period = 150</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 190 (190 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 190 (190 ok) packets 31: 200 (200 ok) packets data yield 98.85 % (0.99) average current dissipation 0.74 mA (0.97) Key performance indicator (KPI): 0.98</p>	<p>ID = 24290 2015-11-26 06:36:53 +01:00 schedule_period = 50</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 190 (190 ok) packets 33: 200 (200 ok) packets 8: 160 (158 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 180 (180 ok) packets 31: 190 (190 ok) packets data yield 96.46 % (0.96) average current dissipation 1.36 mA (0.95) Key performance indicator (KPI): 0.96</p>
		yes	<p>ID = 24291 2015-11-26 07:34:03 +01:00 schedule_period = 400</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 200 (200 ok) packets data yield 100.00 % (1.00) average current dissipation 0.58 mA (0.98) Key performance indicator (KPI): 0.99</p>	<p>ID = 24292 2015-11-26 07:45:03 +01:00 schedule_period = 150</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 180 (180 ok) packets 22: 160 (160 ok) packets 28: 190 (190 ok) packets 31: 200 (200 ok) packets data yield 96.92 % (0.97) average current dissipation 0.75 mA (0.97) Key performance indicator (KPI): 0.97</p>	<p>ID = 24293 2015-11-26 07:56:03 +01:00 schedule_period = 50</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 190 (190 ok) packets 33: 200 (200 ok) packets 8: 160 (158 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 180 (180 ok) packets 31: 200 (200 ok) packets data yield 96.85 % (0.97) average current dissipation 1.35 mA (0.95) Key performance indicator (KPI): 0.96</p>
		yes	<p>ID = 24294 2015-11-26 08:48:42 +01:00 schedule_period = 400</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 200 (200 ok) packets data yield 100.00 % (1.00) average current dissipation 0.58 mA (0.98) Key performance indicator (KPI): 0.99</p>	<p>ID = 24296 2015-11-26 09:10:42 +01:00 schedule_period = 150</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 190 (190 ok) packets 31: 200 (200 ok) packets data yield 99.23 % (0.99) average current dissipation 0.74 mA (0.97) Key performance indicator (KPI): 0.98</p>	<p>ID = 24298 2015-11-26 09:32:42 +01:00 schedule = 50</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 188 (188 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 160 (158 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 190 (190 ok) packets 28: 180 (180 ok) packets 31: 190 (190 ok) packets data yield 96.38 % (0.96) average current dissipation 1.35 mA (0.95) Key performance indicator (KPI): 0.95</p>
		no	<p>ID = 24295 2015-11-26 08:59:42 +01:00 schedule_period = 1200</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 200 (200 ok) packets 31: 200 (200 ok) packets data yield 100.00 % (1.00) average current dissipation 0.49 mA (0.98) Key performance indicator (KPI): 0.99</p>	<p>ID = ID = 24297 2015-11-26 09:21:42 +01:00 schedule_period = 150</p> <p>32: 200 (200 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 200 (200 ok) packets 16: 190 (190 ok) packets 22: 200 (200 ok) packets 28: 190 (190 ok) packets 31: 200 (200 ok) packets data yield 99.23 % (0.99) average current dissipation 0.65 mA (0.97) Key performance indicator (KPI): 0.98</p>	<p>ID = 24299 2015-11-26 09:43:42 +01:00 schedule = 32</p> <p>32: 190 (190 ok) packets 1: 200 (200 ok) packets 2: 200 (200 ok) packets 3: 200 (200 ok) packets 4: 200 (200 ok) packets 6: 200 (200 ok) packets 33: 200 (200 ok) packets 8: 200 (200 ok) packets 15: 190 (190 ok) packets 16: 200 (200 ok) packets 22: 200 (200 ok) packets 28: 180 (180 ok) packets 31: 200 (200 ok) packets data yield 98.46 % (0.98) average current dissipation 1.33 mA (0.95) Key performance indicator (KPI): 0.97</p>