

# MIDTERM SPRING 2020 VERSION 1

## Routing Tables

| # | From Router/Tx - To Router/Tx | #  | From Router/Tx - To Router/Tx | #  | From Router/Tx - To Router/Tx |
|---|-------------------------------|----|-------------------------------|----|-------------------------------|
| 1 | A/T0 - B/T0                   | 7  | C/T2 - D/T2                   | 13 |                               |
| 2 | B/T1 - C/T0                   | 8  |                               | 14 |                               |
| 3 | C/T1 - D/T0                   | 9  |                               | 15 |                               |
| 4 | D/T1 - C/T1                   | 10 |                               | 16 |                               |
| 5 | C/T2 - A/T0                   | 11 |                               | 17 |                               |
| 6 | A/T1 - B/T1                   | 12 |                               | 18 |                               |

| A        |      |        | B        |      |        | C        |      |        | D        |      |        |
|----------|------|--------|----------|------|--------|----------|------|--------|----------|------|--------|
| Network  | Hops | Route  | Network  | Hops | Route  | Network  | Hops | Route  | Network  | Hops | Route  |
| 10.0.0.0 | 0    | DIRECT | 10.0.0.0 | 0    | DIRECT | 20.0.0.0 | 0    | DIRECT |          |      |        |
|          |      |        | 20.0.0.0 | 0    | DIRECT | 30.0.0.0 | 0    | DIRECT | 30.0.0.0 | 0    | DIRECT |
| 40.0.0.0 | 0    | DIRECT |          |      |        | 40.0.0.0 | 0    | DIRECT |          |      |        |
|          |      |        |          |      |        |          |      |        | 50.0.0.0 | 0    | DIRECT |

| A        |      |          | B        |      |          | C        |      |          | D        |      |          |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| Network  | Hops | Route    | Network  | Hops | Route    | Network  | Hops | Route    | Network  | Hops | Route    |
| 10.0.0.0 | 0    | DIR      | 40.0.0.0 | 0    | DIR      | 10.0.0.0 | 1    | 20.0.0.2 | 10.0.0.0 | 2    | 30.0.0.3 |
| 20.0.0.0 | 1    | 40.0.0.3 | 20.0.0.0 | 0    | DIR      | 20.0.0.0 | 0    | DIR      | 20.0.0.0 | 1    | 30.0.0.3 |
| 30.0.0.0 | 1    | 40.0.0.3 |          |      |          | 30.0.0.0 | 0    | DIR      | 30.0.0.0 | 0    | DIR      |
| 40.0.0.0 | 0    | DIR      | 40.0.0.0 | 1    | 10.0.0.1 | 40.0.0.0 | 0    | DIR      | 40.0.0.0 | 1    | 30.0.0.3 |
| 50.0.0.0 | 2    | 40.0.0.3 |          |      |          |          |      |          | 50.0.0.0 | 0    | DIR      |

| A       |      |       | B        |      |          | C        |      |          | D       |      |       |
|---------|------|-------|----------|------|----------|----------|------|----------|---------|------|-------|
| Network | Hops | Route | Network  | Hops | Route    | Network  | Hops | Route    | Network | Hops | Route |
|         |      |       | 10.0.0.0 | 0    | DIR      | 10.0.0.0 | 1    | 20.0.0.2 |         |      |       |
|         |      |       | 20.0.0.0 | 0    | DIR      | 20.0.0.0 | 0    | DIR      |         |      |       |
|         |      |       | 30.0.0.0 | 2    | 10.0.0.1 | 30.0.0.0 | 0    | DIR      |         |      |       |
|         |      |       | 40.0.0.0 | 1    | 10.0.0.1 | 40.0.0.0 | 0    | DIR      |         |      |       |
|         |      |       | 50.0.0.0 | 3    | 10.0.0.1 | 50.0.0.0 | 1    | 30.0.0.4 |         |      |       |

### Routing Tables

|        | A       |      |       | B        |      |          | C       |      |       | D       |      |       |
|--------|---------|------|-------|----------|------|----------|---------|------|-------|---------|------|-------|
|        | Network | Hops | Route | Network  | Hops | Route    | Network | Hops | Route | Network | Hops | Route |
| T<br>3 |         |      |       | 10.0.0.0 | 0    | Direct   |         |      |       |         |      |       |
|        |         |      |       | 20.0.0.0 | 0    | Direct   |         |      |       |         |      |       |
|        |         |      |       | 30.0.0.0 | 1    | 20.0.0.3 |         |      |       |         |      |       |
|        |         |      |       | 40.0.0.0 | 1    | 10.0.0.1 |         |      |       |         |      |       |
|        |         |      |       | 50.0.0.0 | 2    | 20.0.0.3 |         |      |       |         |      |       |

|        | A       |      |       | B       |      |       | C       |      |       | D       |      |       |
|--------|---------|------|-------|---------|------|-------|---------|------|-------|---------|------|-------|
|        | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route |
| T<br>4 |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |

|        | A       |      |       | B       |      |       | C       |      |       | D       |      |       |
|--------|---------|------|-------|---------|------|-------|---------|------|-------|---------|------|-------|
|        | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route |
| T<br>5 |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |

|        | A       |      |       | B       |      |       | C       |      |       | D       |      |       |
|--------|---------|------|-------|---------|------|-------|---------|------|-------|---------|------|-------|
|        | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route | Network | Hops | Route |
| T<br>6 |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |
|        |         |      |       |         |      |       |         |      |       |         |      |       |