# Sample of communications content of control commands via LAN

# LAN control protocol : protocol 1　When in [Protect Mode]

Below are the contents of communications with the following settings, when sending a POF (Power-off) Command.

WEB Control Administrator Authorization Username：admin1
WEB Control Administrator Authorization password：panasonic

TCP connection

**PC ← Display : PDPCONTROL 1 [Sequence of 8 random numbers](CR)**

| P | D | P | C | O | N | T | R | O | L | | 1 | | 0 | 1 | 7 | 4 | 7 | 3 | 5 | b | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 44 | 50 | 43 | 4f | 4e | 54 | 52 | 4f | 4c | 20 | 31 | 20 | 30 | 31 | 37 | 34 | 37 | 33 | 35 | 62 | 0d |

Bottom row: ASCII Code

**PC → Display : [32-character MD5 hash value](STX)POF(ETX)(CR)**

| e | a | 7 | e | a | 3 | 1 | e | 5 | 7 | f | 4 | 5 | 1 | 5 | b | c | 1 | 1 | a | 2 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | 61 | 37 | 65 | 61 | 33 | 31 | 65 | 35 | 37 | 66 | 34 | 35 | 31 | 35 | 62 | 63 | 31 | 31 | 61 | 32 | 35 |

| e | a | 2 | 3 | b | 1 | e | 7 | a | 5 | (STX) | P | O | F | (ETX) | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | 61 | 32 | 33 | 62 | 31 | 65 | 37 | 61 | 35 | 02 | 50 | 4f | 46 | 03 | 0d |

MD5 Hash seeded with
"0174735bpanasonic"
↓
ea7ea31e57f4515bc11a25ea23b1e7a5

**PC ← Display : (STX)POF(ETX)(CR)**

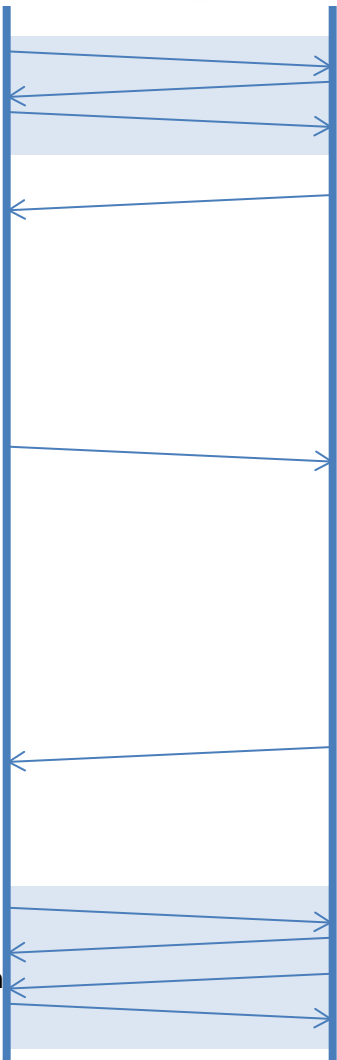| (STX) | P | O | F | (ETX) | (CR) |
|---|---|---|---|---|---|
| 02 | 50 | 4f | 46 | 03 | 0d |

TCP disconnection

# LAN control protocol : protocol 1　When in [Non-protect Mode]

Below are the contents of communications with the following settings, when sending a POF (Power-off) Command.

WEB Control Administrator Authorization Username：admin1
WEB Control Administrator Authorization password： (None)

TCP connection

**PC ← Display : PDPCONTROL 0(CR)**

| P | D | P | C | O | N | T | R | O | L | | 0 | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 44 | 50 | 43 | 4f | 4e | 54 | 52 | 4f | 4c | 20 | 30 | 0d |

Bottom row:
ASCII Code

**PC → Display : (STX)POF(ETX)(CR)**

| (STX) | P | O | F | (ETX) | (CR) |
|---|---|---|---|---|---|
| 02 | 50 | 4f | 46 | 03 | 0d |

**PC ← Display : (STX)POF(ETX)(CR)**

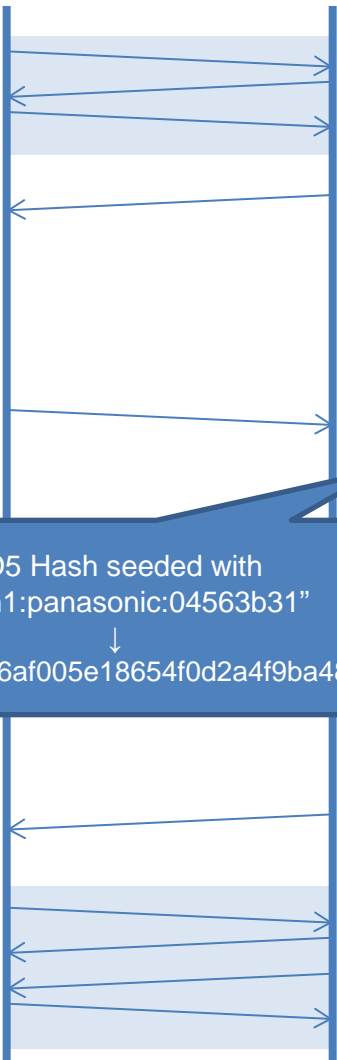| (STX) | P | O | F | (ETX) | (CR) |
|---|---|---|---|---|---|
| 02 | 50 | 4f | 46 | 03 | 0d |

TCP disconnection

55

# LAN control protocol : protocol 2  When in [Protect Mode]

55

Below are the contents of communications with the following settings, when sending a POF (Power-off) Command.

WEB Control Administrator Authorization Username：admin1
WEB Control Administrator Authorization password：panasonic

TCP connection

**PC ← Display : NTCONTROL 1 [Sequence of 8 random numbers](CR)**

| N | T | C | O | N | T | R | O | L | | 1 | | 0 | 4 | 5 | 6 | 3 | b | 3 | 1 | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4e | 54 | 43 | 4f | 4e | 54 | 52 | 4f | 4c | 20 | 31 | 20 | 30 | 34 | 35 | 36 | 33 | 62 | 33 | 31 | 0d |

Bottom row: ASCII Code

**PC → Display : [32-character MD5 hash value]00POF(CR)**

| d | 1 | 1 | 4 | c | 8 | 4 | 9 | 6 | a | f | 0 | 0 | 5 | e | 1 | 8 | 6 | 5 | 4 | f | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | 31 | 31 | 34 | 63 | 38 | 34 | 39 | 36 | 61 | 66 | 30 | 30 | 35 | 65 | 31 | 38 | 36 | 35 | 34 | 66 | 30 |

| d | 2 | a | 4 | f | 9 | b | a | 4 | 8 | 0 | 0 | P | O | F | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | 32 | 61 | 34 | 66 | 39 | 62 | 61 | 34 | 38 | 30 | 30 | 50 | 4f | 46 | 0d |

MD5 Hash seeded with "admin1:panasonic:04563b31"
↓
d114c8496af005e18654f0d2a4f9ba48

**PC ← Display : 00POF(CR)**

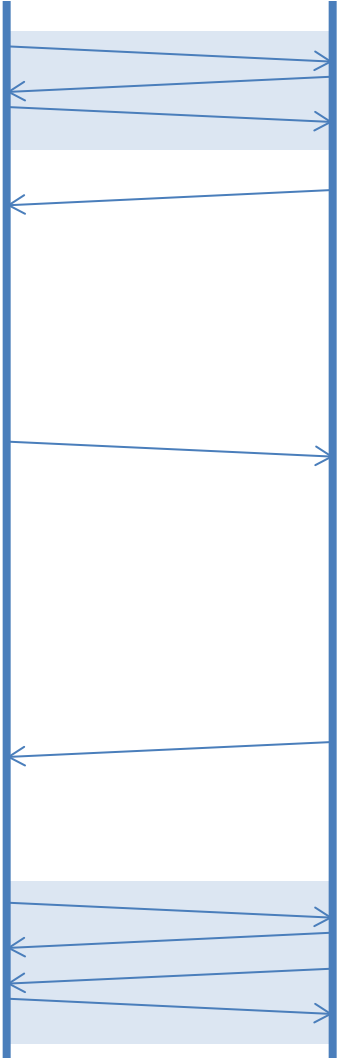| 0 | 0 | P | O | F | (CR) |
|---|---|---|---|---|---|
| 30 | 30 | 50 | 4f | 46 | 0d |

TCP disconnection

# LAN control protocol : protocol 2  When in [Non-protect Mode]

Below are the contents of communications with the following settings, when sending a POF (Power-off) Command.

WEB Control Administrator Authorization Username：admin1
WEB Control Administrator Authorization password： (None)

TCP connection

**PC ← Display : NTCONTROL 0(CR)**

| N | T | C | O | N | T | R | O | L | | 0 | (CR) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4e | 54 | 43 | 4f | 4e | 54 | 52 | 4f | 4c | 20 | 30 | 0d |

Bottom row: ASCII Code

**PC → Display : 00POF(CR)**

| 0 | 0 | P | O | F | (CR) |
|---|---|---|---|---|---|
| 30 | 30 | 50 | 4f | 46 | 0d |

**PC ← Display : 00POF(CR)**

| 0 | 0 | P | O | F | (CR) |
|---|---|---|---|---|---|
| 30 | 30 | 50 | 4f | 46 | 0d |

TCP disconnection