

# The Network Shutdown Protocol

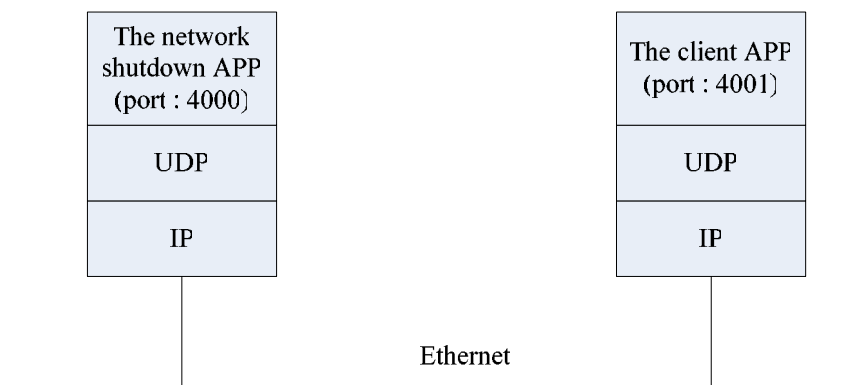
Date	Owner	Version	Comment
2008-11-17	Yangzhe	V0.1	Kick off
2008-11-22	Yangzhe	V0.2	Add “OMRON” string ID

## Introduction

The document specifies the packets between the network shutdown application and the client application.

It is based on UDP protocol.

## Protocol Specification and the network packet definitions



1, Port number:

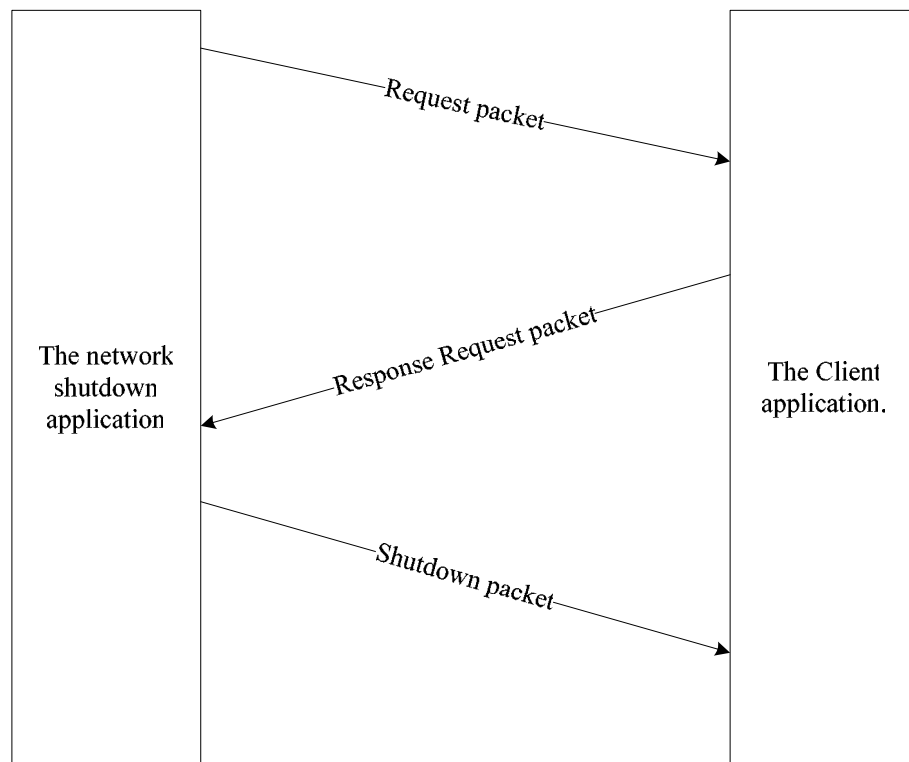
The network shutdown application would monitor port 4000.

The client application would monitor port 4001.

2, the flowchart

The network shutdown application would send “REQUEST\_PACKET” to the client application when it starts. The client application would respond “RESPONSE\_REQUEST\_PACKET”. In this network packet, it is including “OMRON” string.

The network shutdown application doesn’t send “SHUTDOWN\_PACKET” if it can’t find “OMRON” string in the “RESPONSE\_REQUEST\_PACKET”.



### 3, Packet format

0	1	2	3	4	6	8
Major Version No.	Minor Version No.	OP Code	String Buffer Len	Reserved 1	Reserved 2	String Buffer
Fixed Part					Dynamic Part	

#### 3.1, Request packet

- Major Version No. 1 Octet This field provides the Major version number.
- Minor Version No. 1 Octet This field provides the Minor version number.
- OPCode 1 Octet This field specifies OPCode of REQUEST\_PACKET.
- String Buffer Len 1 Octet The length of “String Buffer” in dynamic part.
- Reserved 1 2 Octet Reserved for future use.
- Reserved 2 2 Octet Reserved for future use.

#### 3.2, Response Request packet

- Major Version No. 1 Octet This field provides the Major version number.
- Minor Version No. 1 Octet This field provides the Minor version number.
- OPCode 1 Octet This field specifies OPCode of RESPONSE\_REQUEST\_PACKET.

- String Buffer Len      1    Octet    The length of “String Buffer” in dynamic part.
- Reserved 1            2    Octet    Reserved for future use.
- Reserved 2            2    Octet    Reserved for future use.
- String Buffer           5    Octet    “OMRON”

### 3.3, Operation packet

- Major Version No.    1    Octet    This field provides the Major version number.
- Minor Version No.    1    Octet    This field provides the Minor version number.
- OPCode                1    Octet    This field specifies OPCode of SHUTDOWN\_PACKET..
- String Buffer Len      1    Octet    The length of “String Buffer” in dynamic part.
- Reserved 1            2    Octet    Reserved for future use.
- Reserved 2            2    Octet    Reserved for future use.

### 4, Description of the field

Item	Field	Value (HEX)	Meaning
1	Major Version No.	00	Currently the allowed Value for Major version is 02.
2	Minor Version No.	01	Currently the allowed Value for Minor version is 01.
3	OP code	01 02 03	REQUEST_PACKET RESPONSE_REQUEST_PACKET SHUTDOWN_PACKET
4	String Buffer Len		The length of “String Buffer” in dynamic part.
5	String Buffer		“OMRON”