Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Resolving TFTP Configuration File Issues**
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Re:	Letter Ballot IEEE P802.16-REVd_D1-2003.
Abstract	This document contains suggestions for improvement of the TFTP configuration file upgrade process
Purpose	The document is submitted for discussion by 802.16d Working Group
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Resolving TFTP Configuration File Issues

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Comment #606

Change Detail

Original Text (Section 9.2):

The following configuration settings may be included in the configuration file and if present shall be supported by all SSs:

a) Software Upgrade Filename Configuration Setting (see 11.3.1)

b) Software Server IP Address (see 11.3.2)

c) Authorization Node IP Address (11.3.3, Mesh only)

d) Registration Node IP Address (11.3.4, Mesh only)

e) Provisioning Node IP Address (11.3.5, Mesh only)

f) Vendor-specific configuration settings

Modification:

The following configuration settings may be included in the configuration file and if present shall be supported by all SSs:

a) Software Upgrade Descriptors (see 11.3.1)

b) Software Server IP Address (see 11.3.2)

c) Authorization Node IP Address (11.3.3, Mesh only)

d) Registration Node IP Address (11.3.4, Mesh only)

e) Provisioning Node IP Address (11.3.5, Mesh only)

f) Vendor-specific configuration settings

Original Text (Section 11.3.1):

11.3.1 Software upgrade filename

The filename of the software upgrade file for the SS. The filename is a fully qualified directory-path name which is in a format appropriate to the server. There is no requirement that the character string be null-terminated; the length field always identifies the end of the string. The file is expected to reside on a TFTP server identified in a configuration setting option defined in 11.3.2.

Modification:

11.3.1 Software Upgrade Descriptors

This field defines the parameters associated with software upgrades. It is composed of one or more upgrade descriptors. An upgrade descriptor is defined by the set of all encapsulated tags defined below, occurring in order in the TFTP file. A new upgrade descriptor begins with the occurrence of the Vendor ID TLV.

When an SS decodes a descriptor with a matching Vendor ID, Hardware ID, and Software Version different than the one currently running, it shall initiate a TFTP transfer to upgrade its software.

Type	Length	Value
9	N	compound

11.3.1.1 Vendor ID

This value identifies the SS vendor to which the software upgrade is to be applied. Its format is described in 11.4.5.

Type	Length	Value
9.1	3	Described in 11.4.5

11.3.1.2 Hardware ID

This value identifies the hardware version to which the software upgrade is to be applied. This value is administered by the vendor identified in the Vendor ID field.

Type	Length	Value
9.2	N	Hardware ID (string)

11.3.1.3 Software Version

This value identifies the software version of the software upgrade file. The value is administered by the vendor identified in the Vendor ID field. It should be defined by the vendor to be unique with respect to a given Hardware ID.

Type	Length	Value

9.3	N	Software Version (string)

11.3.1.4 Upgrade Filename

The filename of the software upgrade file for the SS. The filename is a fully qualified directory-path name which is in a format appropriate to the server. There is no requirement that the character string be null-terminated; the length field always identifies the end of the string. The file is expected to reside on a TFTP server identified in a configuration setting option defined in 11.3.2.

Type	Length	Value
9.4	N	Filename (string)