

# Mesh Device Firmware Update Model (DFUM)

## **Bluetooth®** Implementation Conformance Statement (ICS) Proforma

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# 1 Identification of the implementation

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## 1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

## 1.2 Versions

**Table 0: X.Y Versions**

Item	Version	Reference	Status
1	Mesh Device Firmware Update Model v1.0	[1]	M

**Table 1: X.Y.Z Versions**

Table number reserved but not yet in use.

**Table 2: No longer used**

## 1.3 Models

**Table 3: Model Requirements**

Item	Model	Reference	Status
1	Firmware Update Server model	[1] 6.1	O
2	Firmware Distribution Server model	[1] 6.2	C.1
3	Firmware Update Client model	[1] 6.3	O
4	Firmware Distribution Client model	[1] 6.4	C.1

C.1: Optional IF DFUM 3/3 "Firmware Update Client model", otherwise Excluded.

## 1.4 Firmware Update Server Model

**Table 10: Firmware Update Server Model Dependencies**

*Prerequisite: DFUM 3/1 "Firmware Update Server model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	BLOB Transfer Server model	[1] 2.1.1	M	[2] MBTM 3/1

**Table 11: BLOB Transfer Server Model Requirements**

*Prerequisite: DFUM 10/1 "BLOB Transfer Server model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	Pull BLOB Transfer Mode	[1] 2.1.1	C.1	[2] MBTM 10/1
2	Push BLOB Transfer Mode	[1] 2.1.1	C.2	[2] MBTM 10/2

C.1: Mandatory IF MESH 7/4 "Low Power Feature", otherwise Optional.

C.2: Mandatory IF NOT MESH 7/4 "Low Power Feature", otherwise Optional.



## 1.5 Firmware Distribution Server Model

**Table 20: Firmware Distribution Server Model Dependencies**

*Prerequisite: DFUM 3/2 "Firmware Distribution Server model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	BLOB Transfer Server model	[1] 2.1.1	M	[2] MBTM 3/1

**Table 21: BLOB Transfer Server Model Requirements**

*Prerequisite: DFUM 20/1 "BLOB Transfer Server model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	Pull BLOB Transfer Mode	[1] 2.1.1	C.1	[2] MBTM 10/1
2	Push BLOB Transfer Mode	[1] 2.1.1	C.2	[2] MBTM 10/2

C.1: Mandatory IF MESH 7/4 "Low Power Feature", otherwise Optional.

C.2: Mandatory IF NOT MESH 7/4 "Low Power Feature", otherwise Optional.

**Table 22: Firmware Distribution Server Model Requirements**

*Prerequisite: DFUM 3/2 "Firmware Distribution Server model"*

Item	Model	Reference	Status
1	Store Firmware OOB procedure	[1] 6.2.2.3	O
2	Firmware Retrieval Over HTTPS procedure	[1] 3.3	C.1
3	Multiple Firmware Image Support	[1] 4.3.2.2	O

C.1: Optional IF DFUM 22/1 "Store Firmware OOB procedure", otherwise Excluded.

## 1.6 Firmware Update Client Model

**Table 30: Firmware Update Client Model Dependencies**

*Prerequisite: DFUM 3/3 "Firmware Update Client model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	BLOB Transfer Client model	[1] 2.1.1	M	[2] MBTM 3/2

## 1.7 Firmware Distribution Client Model

**Table 40: Firmware Distribution Client Model Dependencies**

*Prerequisite: DFUM 3/4 "Firmware Distribution Client model"*

Item	Model	Reference	Status	Inter-Layer Dependency
1	BLOB Transfer Client model	[1] 2.1.1	M	[2] MBTM 3/2



**Table 41: Firmware Distribution Client Model Features**

*Prerequisite: DFUM 3/4 " Firmware Distribution Client model"*

Item	Capability	Reference	Status
1	Upload Firmware OOB procedure	[1] 7.2.2.8	O

## 2 References

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- [1] Mesh Device Firmware Update Model Specification, Version 1.0 or later
- [2] ICS Proforma for Mesh Binary Large Object Transfer Model Specification



## 3 Revision history and acknowledgments

### Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2023-09-19	Approved by BTI on 2023-08-27. MBT v1.0 adopted by the BoD on 2023-09-12. Prepared for initial publication.
	p1r00-r02	2024-02-05 – 2024-03-29	TSE 24228 (rating 2): Updated C.1 and C.2 in Tables 11 and 21. TSE 24287 (rating 2): In Table 22, updated conditional C.1 and the status for Item 1. TSE 25133 (rating 1): Updated all instances of “DFU” to “DFUM” to reflect that the Mesh Device Firmware Update spec is a model spec. TSE 25169 (rating 1): Updated all instances of “MBT” to “MBTM” to reflect that the Mesh Device Firmware Update spec is a model spec.
1	p1	2024-07-01	Approved by BTI on 2024-04-18. Prepared for TCRL 2024-1 publication.

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