



The CIC acknowledges the technical input and leadership provided by the BIM Task Group in support of the production of CIC BIM documentation.

The BIM Protocol has been drafted by Beale and Company on behalf of the CIC and the BIM Task Group

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BUILDING INFORMATION MODEL (BIM) PROTOCOL

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Standard Protocol for use in projects using Building Information Models

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INTRODUCTION & GUIDANCE



1. Introduction

This BIM Protocol has been commissioned by CIC as part of its response to the UK Government BIM Strategy. The Protocol has been drafted for use on all common construction contracts and supports BIM working at Level 2.

The Protocol identifies the Building Information Models that are required to be produced by members of the Project Team and puts into place specific obligations, liabilities and associated limitations on the use of the models. The Protocol can also be used by clients to require the adoption of particular ways of working – such as the adoption of a common naming standard.

The Protocol adopts many of the core principles used in the preparation of the CIC Consultant Appointment and Schedules of Service, particularly that project teams perform better when there is clear responsibility for action and deliverables.

This introduction and guidance sets out the principles behind the drafting of the Protocol and provides guidance with regards to its completion and use.

2. General principles adopted in the drafting of the Protocol.

The following principles have informed the drafting of the Protocol:

- The Protocol makes the minimum changes necessary to the pre-existing contractual arrangements on construction projects;
- The Protocol ensures that there is an obligation on parties to provide defined elements of their works/services using models;
- The Protocol is a contractual document which takes precedence over existing agreements; and;
- The Protocol is flexible and should be suitable for use on all Level 2 BIM projects.

3. How the Protocol works

3.1 Objective of the Protocol

The primary objective of the Protocol is to enable the production of Building Information Models at defined stages of a project. The Protocol is aligned with Government BIM Strategy, and incorporates provisions which support the production of deliverables for 'data drops' at defined project stages. The Protocol also provides for the appointment of an 'Information Manager'.

A further objective of the Protocol is that its use will support the adoption of effective collaborative working practices in Project Teams. The encouragement of the adoption of common standards or working methods under PAS 1192-2 are examples of best practice that can be made an explicit contractual requirement under the Protocol.

All parties involved in the use, production or delivery of Models on the Project (the "Project Team Members") are required to have a BIM Protocol appended to their contracts. This will ensure that all parties producing and delivering Models adopt any common standards or ways of working described in the Protocol and that all parties using the Models have a clear right to do so. The responsibility for ensuring that Protocols are in place is with the Employer named in each agreement.

3.2 Incorporation into contracts

The Protocol is intended to be expressly incorporated into all direct contracts between the Employer and the Project Team Members.

- On a project with separate appointments, it will be appended to the appointments of members of the design team and to the building contract.
- be appended to the contracts of the design team entered into prior to appointment of the Contractor. When the Contractor is appointed, the Building Contract should make him responsible for providing the models and should include the Protocol. If all consultants are novated, the Protocol appended to the novated appointments will allocate responsibility between members of the design team. If some consultants are not novated, careful consideration should be given as to how the responsibilities under the Protocol will be allocated following novation.
- Project Team Members should arrange for the Protocol to be incorporated into subcontracts which concern the use, production or delivery of Models to the extent required to ensure that the Project Team Member complies with the Protocol. This will also ensure the sub-contractors have the benefit of and are subject to the licences in clause 6.

The text of a model amendment which expressly incorporates the Protocol into direct contracts is included as the Model Enabling Amendment. The text of exemplar amendments for common contracts and appointments are published on the BIM Task Group website, www.bimtaskgroup.org.

3.3 Permitted Purposes

A key area of concern for many information providers is that the wider use of data-rich BIM will make it harder to protect IPR. The Protocol uses a general concept of 'Permitted Purpose' to define the licenced uses of Models, rather than stating the specific uses of each model.

The Permitted Purpose is defined as: "a purpose related to the Project (or the construction, operation and maintenance of the Project) which is consistent with the applicable Level of Detail of the relevant Model (including a Model forming part of a Federated Model) and the purpose for which the relevant Model was prepared".

In order for the definition to operate as intended it is important that the Levels of Detail are defined appropriately in Appendix 1 (Levels of Detail and the Model Production and Delivery Table).

3.4 Treatment of Intellectual Property

In light of industry concerns in respect of IPR and the increased collaboration involved in a BIM project, clause 6 of the Protocol clearly sets out the IPR provisions required to enable the Models to be used as intended and to protect the rights of the Project Team Members against infringement.

Clause 6.2 states that 'any rights (including but not limited to any copyright)....shall remain vested in the Project Team Member'. If the Employer wants to own all Project IPR, then the Protocol will need to be amended and further changes may be required in the Project Team Agreements. The existing contractual arrangements will govern the copyright position in respect of other documents produced and delivered under the Agreement.

Clause 6.3 grants a licence to the Employer in respect of the Material (the electronic information contained in the Models produced by the Project Team Member) for the Permitted Purpose and clauses 6.6 and 6.7 grant a licence and sub-licence from the Employer to the Project Team Member in respect of other information contained in Models (including material provided by the Employer or on his behalf for inclusion in the Project Team Member's Models) for the Permitted Purpose. This means that a Project Team Member will be granted a licence, via the Employer, to use the Models produced by an Other Project Team Member, subject to the terms of clause 6 and vice versa.

The licences in the Protocol include the right to grant a sub-licence on identical terms to members of the Project Team and their sub-contractors. If the Employer requires a licence to be granted to other parties in respect of the Material it will need a separate agreement from the Project Team Member. This may be in the form of a collateral warranty in favour of that third party, or the Agreement could expressly extend the benefit of the Protocol to a third party under the Contracts (Rights of Third Parties) Act 1999.

The licence granted by the Project Team Member can be revoked for non payment to the extent that any licence in the Agreement can be and the sub-licence from the Employer is subject to any right of revocation in the licence granted to the Employer.

In order to protect the Project Team Member's rights, the licences do not include the right to amend the Material/Models without consent (except in limited circumstances) or the right to



reproduce any proprietary work contained in the Material/Models for any extension of the Project. If a wider licence is required additional specific consent could be provided by the Project Team Member.

Clauses 6.9 and 6.10 represent that the Project Team Member and the Employer have, or will procure the right to grant the licences and sublicences in clause 6. It is important all parties keep a clear audit trail when obtaining a Model, or part of the Model, from a third party.

3.5 Electronic Data Exchange

The Protocol aims to remove the need for separate Electronic Data Exchange Agreements between the Project Team Members by addressing the principal risks associated with the provision of electronic data, in particular the risk of corruption following transmission. Clause 5.1 makes clear that, without prejudice to its obligations under the Agreement, the Project Team Member gives no warranty as to the integrity of electronic data. Clause 5.2 excludes liability for any corruption or unintended amendment etc. of the electronic data which occurs after the transmission of a Model by the Project Team Member, unless caused by a failure to comply with the Protocol.

3.6 Definition of the Models covered by the Protocol

Models which are scheduled in Appendix 1, the Model Production and Delivery Table (MPDT), are subject to the Protocol. Models which are not listed in the MPDT do not benefit from the provisions of the Protocol. Clause 4 introduces an obligation on the Project Team Member to produce and deliver the Models in respect of which it is identified as the "Model Originator" in Appendix 1. The completion of the MPDT is described in more detail in section 6. The MPDT should be drafted accurately, as it is a contractual document, and also because it defines the Models that Project Team Members are expected to produce for a particular stage or data drop and the Level of Detail that is required at this stage.

3.7 Change management

The Protocol and appendices are contract documents. Any change to the Protocol or appendices will result in a change to the contract terms. Any variations to the MPDT or Protocol should be subject to the Change Management procedure under the Agreement, as they may be a change to the scope of services/works. As the same Protocol and appendices are attached to all Project Team Agreements, Employers should try and ensure such procedures are consistent across all Project Team Agreements if possible.

3.8 Liability for use of Models

Given the concerns associated with the wider use of data on BIM Projects clause 7 excludes liability for any use of the Material/Models which are licensed and/or sublicensed in clause 6 which is not permitted by the relevant licence/sub-licence.

4. Information Manager

The Protocol requires the Employer to appoint a party to undertake the Information Management Role. This is expected to form part of a wider set of duties under an existing appointment and is likely to be performed either by the Design Lead or the Project Lead, which could be a consultant or contractor at different stages of the project. In some circumstances the Employer may appoint a stand alone Information Manager.

The Scope of Services for the Role of Information Management will need to be defined in the Appointment of the party undertaking the Information Management Role. Details of the scope of services of the Information Manager have been prepared by the CIC. There are two versions: a detailed version compatible with the CIC scope of services, and another simpler version suitable for incorporation with any appointment, these are published separately on the BIM Task Group website, www:bimtaskgroup.org.

The Information Manager has no design related duties. Clash detection and model coordination activities associated with a 'BIM Coordinator' remain the responsibility of the design lead.

The principal responsibilities of the Information Manager can be summarised as:

- Managing the processes and procedures for information exchange on projects;
- Initiating and implementing the Project Information Plan and Asset Information Plan;
- Assisting in the preparation of Project Outputs, such as data drops; and
- Implementation of the BIM Protocol, including the updating of the MPDT.

The initial responsibility for the appointment of the Information Manager lies with the Employer, who must ensure that there is an Information Manager appointed (whether by the Employer or another party) at all times until completion of the Project, save to the extent that this is the responsibility of the relevant Project Team Member.

5. The Information Requirements

The Information Requirements (IR) has been included at Appendix 2 to the Protocol so that Project wide information requirements can be expressly incorporated into all Project Team Member Agreements. Clause 4.1.2 requires the Project Team Member to comply with the Information Requirements (including any protocols, procedures and processes set out therein). The Information Requirements define how a Model must be developed, although it will not change the substance of what each party must provide. Many of the requirements included in the IR will be taken from tender documents such as the Employer's Information Requirements. An exhibit of the Employer's Information Requirements, with guidance notes, is available on the BIM Task Group website.

Appendix 2 contains an example of what might be included in an IR but the content of the IR is entirely flexible. The Information Requirements should be adapted to suit the needs of the Project. Once prepared, the IR will be appended to the Protocol attached to all Project Team Agreements. It is likely to be an evolving document and will be subject to the change control procedure under the Agreement.

It is the responsibility of the Information Manager to agree and issue the IR, which should be prepared before the Agreements are concluded, as otherwise the parties will have to rely on the other contractual arrangements, which may not address the items covered by the IR.

6. Model Production and Delivery Table

The Model Production and Delivery Table (MPDT) is a key document as it both allocates responsibility for preparation of the Models and identifies the Level of Detail ("LOD") that Models need to meet at the project stages or data drops stated in the table.

The LODs are to be defined in Appendix 1 and it is expected that this will be done by reference to a separate document/standard. A definition of LODs can be found in PAS 1192-2, and further work is being undertaken by the BIM Task Group to define specific data content requirements for BIM. It is important that the LODs are defined appropriately as they determine both the content of a Model and the Permitted Purpose for which the Model can be used. Ideally the Models included in the MPDT will have been identified in schedules to the Employer's Information Requirements.

The MPDT is to be included at Appendix 1 and should be prepared before the Agreement is concluded. The same MPDT should be included in the Protocol appended to all Project Team Agreements. The MPDT should be completed carefully on a Level 2 project, so as not to impose additional obligations than intended, or to omit models from the scope of the Protocol. Should any variations to the MDPT be introduced at a later date, the change will be subject to the same procedure as required under the Agreement.

An exemplar MPDT has been published on the BIM Task Group website. It uses APM Project Stages and references to Data Drops described in the UK Government BIM Strategy. The APM Project Stages provide the closest match between stages used on building and infrastructure project stages. The MPDT can be adapted to refer to other Project Stage references, such as the RIBA Plan of Work, or Network Rail's GRIP.

MODEL ENABLING AMENDMENT



Definition

'BIM Protocol: the CIC Building Information Modelling Protocol in the form attached at Appendix X.'

Incorporation into the definition of the Contract Documents

'BIM Protocol'

Compliance with obligations, benefits of rights, limitations or exclusions of liability

'The Employer and the Contractor shall:

- comply with their respective obligations set out in the BIM Protocol;
- 2. have the benefit of any rights granted to them in the BIM Protocol; and
- have the benefit of any limitations or exclusions of their liability contained in the BIM Protocol'

The specific amendments required to incorporate the Protocol should be considered on a contract by contract basis and legal advice should be sought in this regard. Exemplar amendments for certain standard form contracts and appointment documents will be published on the BIM Task Group website: www.bimtaskgroup.org.uk.

Parties should consider whether any amendments are required to the scope of services of the members of the Project Team in addition to the Protocol to reflect the fact that BIM is being used.

Exemplar amendments for contracts and appointment documents will be published on the BIM Task Group website: www.bimtaskgroup.org.uk.

1. DEFINITIONS

- 1.1 In this Protocol unless the context otherwise requires, the following words and phrases shall have the following meanings:
 - 1.1.1 **Agreement** means the agreement between the Employer and the Project Team Member to which this Protocol is attached.
 - 1.1.2 **Employer** means the person appointing the Project Team Member pursuant to the Agreement and any valid assignee of the Employer's rights and obligations under this Protocol, subject to the terms of such assignment.
 - 1.1.3 Federated Model means a Model consisting of connected but distinct individual Models.
 - 1.1.4 Information Management Role means a role in connection with the Project which includes, inter alia, the establishment and management of the processes, protocols and procedures set out in the Information Requirements.
 - 1.1.5 **Information Manager** means the person appointed, initially by the Employer, to perform the Information Management Role.
 - 1.1.6 **Information Requirements** means the document attached to this Protocol at Appendix 2 setting out the way in which Models shall be produced, delivered and used on the Project, including any processes, protocols and procedures referred to therein.
 - 1.1.7 **Level of Detail** means the level of detail required for a Model as specified in Appendix 1 attached to this Protocol.
 - 1.1.8 **Material** means all information in any electronic medium prepared by or on behalf of the Project Team Member comprised in:
 - a the Specified Models; and
 - b the Federated Models, to the extent that these comprise Specified Models or to the extent that the Project Team Member owns any additional rights in any Federated Model.
 - excluding any material forming part thereof which is provided to the Project Team Member by or on behalf of the Employer.
 - 1.1.9 **Model** means a digital representation of part of the physical and/or functional characteristics of the Project
 - 1.1.10 **Model Production and Delivery Table** means the table attached to this Protocol at Appendix 1 specifying the subject matter of each Model, the person who is to produce and deliver each Model (described in the table as "Model Originator") at each Stage and the Level of Detail for each Model at each Stage.
 - 1.1.11 **Other Project Team Member** means any person having responsibilities in relation to the production, delivery and/or use of Models and appointed by the Employer in relation to the Project, excluding the Project Team Member.
 - 1.1.12 **Permitted Purpose** means a purpose related to the Project (or the construction, operation and maintenance of the Project) which is consistent with the applicable Level of Detail of the relevant Model (including a Model forming part of a Federated Model) and the purpose for which the relevant Model was prepared.
 - 1.1.13 **Project** means the project to which the Agreement relates.
 - 1.1.14 **Project Agreement** means any agreement entered into between the Employer and an Other Project Team Member in relation to the Project.
 - 1.1.15 **Project Team Member** means the person appointed by the Employer pursuant to the Agreement.



- 1.1.16 **Project Team Models** means any Models which Other Project Team Members produce and deliver as specified in the Model Production and Delivery Table and any Federated Models (or any part thereof) produced and delivered by Other Project Team Members.
- 1.1.17 **Protocol** means this building information modelling protocol including Appendix 1 and 2.
- 1.1.18 **Specified Models** means the Model or Models which the Project Team Member is to produce and deliver as specified in the Model Production and Delivery Table.
- 1.1.19 **Stage** shall have the meaning stated in Appendix 1.

2. PRIORITY OF CONTRACT DOCUMENTS

- 2.1 This Protocol forms part of the Agreement. In the event of a conflict or inconsistency between the terms of this Protocol and any other documents contained in and/or forming part of the Agreement, except where the Protocol states otherwise, the terms of this Protocol shall prevail.
- 2.2 In the event of any conflict or inconsistency between a Model prepared and delivered in accordance with this Protocol and any document or information extracted from such Model, except where the Information Requirements states otherwise, the Model shall prevail.

3. OBLIGATIONS OF THE EMPLOYER

- 3.1 The Employer shall:
 - 3.1.1 arrange for a protocol in substantially the same terms as this Protocol and for the obligations set out herein to be incorporated into all Project Agreements; and
 - 3.1.2 save to the extent that such obligations are within the scope of the Project Team Member's obligations under any other part of the Agreement:
 - ensure that until the end of the Project the Information Requirements and the Model Production and Delivery Table are reviewed and updated at each Stage;
 and
 - b ensure that the appointment of the Information Manager shall be changed or renewed as necessary to ensure that there is at all times until the end of the Project a person performing the Information Management Role.

4. OBLIGATIONS OF THE PROJECT TEAM MEMBER

- 4.1 The Project Team Member shall:
 - 4.1.1 produce the Specified Models (excluding any material forming part of the same which is provided to the Project Team Member by or on behalf of the Employer) to the Level of Detail specified in the Model Production and Delivery Table using the level of skill and care required under the Agreement; and
 - 4.1.2 subject to events outside its reasonable control, (including the acts or omissions of the Employer, Other Project Team Members and any third party but excluding the Project Team Member's sub-contractors), use reasonable endeavours to:
 - deliver the Specified Models at the Level of Detail specified in the Model
 Production and Delivery Table at the Stage specified therein and in accordance with the Information Requirements;
 - b use the Project Team Models in accordance with any procedures therefor in the Information Requirements; and
 - c comply with the Information Requirements; and
 - 4.1.3 arrange for this Protocol to be incorporated into any sub-contracts that it enters into in relation to the Project to the extent required to enable the Project Team Member to comply with this Protocol.

5. ELECTRONIC DATA EXCHANGE

- 5.1 Without prejudice to the Project Team Member's obligations under this Protocol and the Agreement, the Project Team Member does not warrant, expressly or impliedly, the integrity of any electronic data delivered in accordance with this Protocol.
- 5.2 The Project Team Member shall have no liability to the Employer in connection with any corruption or any unintended amendment, modification or alteration of the electronic data in a Specified Model which occurs after it has been transmitted by the Project Team Member, save where such corruption, amendment, modification or alteration is a result of the Project Team Member's failure to comply with this Protocol.

6. USE OF MODELS

- 6.1 The Employer and the Project Team Member agree that any provisions in the Agreement concerning the copyright (or any other rights) in and licence to use the Material, the Federated Models, the Project Team Models, any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer and any proprietary work contained therein shall be varied to the extent necessary so that subclauses 6.2 to 6.8 apply to the Material, the Federated Models, the Project Team Models, any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer and any proprietary work contained therein but if there are no such provisions sub-clauses 6.2 to 6.8 shall apply.
- 6.2 Any rights (including but not limited to any copyright) subsisting in the Material and any proprietary work contained in the Material shall, as the case may be, vest or remain vested in the Project Team Member.
- 6.3 Subject to clause 6.4 and 6.5, the Project Team Member grants to the Employer a non-exclusive licence and, to the extent that the Material and any rights subsisting therein are owned by third parties, a sub-licence, (including the right to grant sub-licences on identical terms to Other Project Team Members, which shall include the right to grant sub-sub-licences on identical terms to Other Project Team Members' sub-contractors) to transmit, copy and use the Material and any proprietary work contained in the Material for the Permitted Purpose.
- 6.4 The licence and sub-licence (if any), granted in clause 6.3 may be suspended or revoked in the event of non-payment to the extent that any licence in the Agreement provides for such suspension or revocation.
- 6.5 The licence in clause 6.3 shall not include the right to:
 - 6.5.1 amend or modify the Material without the Project Team Member's written consent (not to be unreasonably withheld), save where such amendment or modification is:
 - a provided for in the Information Requirements; or
 - b made for the Permitted Purpose following the termination of the Project Team Member's employment under the Agreement; or
 - 6.5.2 reproduce any proprietary work contained in the Material for any extension of the Project.

BIM PROTOCOL



- 6.6 Subject to clause 6.8 and any right of revocation contained in the licence granted to the Employer in respect of the same, the Employer grants to the Project Team Member a non-exclusive sub-licence (including the right to grant sub-sub-licences on identical terms to the Project Team Member's sub-contractors) to transmit, copy and use for the Permitted Purpose:
 - 6.6.1 any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer;
 - 6.6.2 the Project Team Models (and any part thereof);
 - 6.6.3 any Federated Model (and any part thereof); and
 - 6.6.4 any proprietary work contained in the same,

to the extent that the same or any rights subsisting therein are owned by Other Project Team Members or any other third party.

- 6.7 Insofar as the Employer owns:
 - 6.7.1 any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer;
 - 6.7.2 the Project Team Models (or any part thereof);
 - 6.7.3 any Federated Model (or any part thereof);
 - 6.7.4 any proprietary work contained in the same; or
 - 6.7.5 any rights subsisting in any of the above,

subject to clause 6.8, the Employer grants to the Project Team Member a non-exclusive licence (including the right to grant sub-licences on identical terms to the Project Team Member's sub-contractors) to transmit copy and use the same for the Permitted Purpose.

- 6.8 The licence and sub-licence (if any) granted in clauses 6.6 and 6.7 shall not include the right to:
 - 6.8.1 amend or modify a Model without the written consent (not to be unreasonably withheld) of the Employer or the Other Project Team Member who produced and delivered that Model (or the relevant part thereof), save where such amendment or modification is:
 - a provided for in the Information Requirements; or
 - b in respect of material produced or delivered by an Other Project Team Member, made for the Permitted Purpose following the termination of the Other Project Team Member's employment under the Agreement; or
 - 6.8.2 reproduce any proprietary work contained in a Model for any extension of the Project.
- 6.9 The Project Team Member represents to the Employer that it has, or that it will procure, the right to grant either a licence or sub-licence in the form granted in clause 6.3 in respect of the Material and any proprietary work contained therein.
- 6.10 The Employer represents to the Project Team Member that it has, or that it will procure, the right to grant either a sub-licence in the form granted in clause 6.6 or a licence in the form granted in 6.7 in respect of:
 - 6.10.1 the Project Team Models (and any part thereof);
 - 6.10.2 any Federated Model (and any part thereof) which does not form part of the Material;
 - 6.10.3 any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer; and
 - 6.10.4 any proprietary work contained in the same.

7. LIABILITY IN RESPECT OF A MODEL

- 7.1 The Employer and the Project Team Member agree that any provisions in the Agreement concerning the use of the Material, the Federated Models, the Project Team Models, any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf of the Employer and any proprietary work contained therein shall be varied to the extent necessary to give effect to clauses 7.2 and 7.3 but if there are no such provisions clauses 7.2 and 7.3 shall apply.
- 7.2 The Project Team Member shall have no liability to the Employer arising out of any modification or amendment to, or any transmission, copying or use of the Material, or any proprietary work contained therein, by the Employer, an Other Project Team Member, or any other third party, other than that permitted by clause 6.3.
- 7.3 The Employer shall have no liability to the Project Team Member arising out of any modification or amendment to, or any transmission, copying or use of the Project Team Models, or any material forming part of the Specified Models which is provided to the Project Team Member by or on behalf by the Employer, or any Federated Models, or any proprietary work contained in the same, sublicensed or licensed by the Employer pursuant to clauses 6.6 and 6.7, by the Project Team Member or any third party, other than that permitted by clause 6.6 or 6.7 (as applicable).

8. TERMINATION

8.1 Clauses 1, 2, 3, 5, 6 and 7 of this Protocol shall continue to apply following termination of the Project Team member's employment under the Agreement.





This is a framework for

Levels of Detail and the Model Production and Delivery Table

The Levels of Detail are as follows:	The Stages are as follows:	a Model Production and Delivery Table. The parties		
LOD 1	STAGE 1	may choose any other		
LOD 2	STAGE 2	appropriate format and attach it to this Appendix.		
LOD 3	STAGE 3			
LOD 4	STAGE 4	An editable version of the		
LOD 5	STAGE 5	BIM Protocol Appendices		
LOD 6	STAGE 6	are provided on the BIM Task Group Website:		
LOD 7	STAGE 7	•		

Specimen Model Production and Delivery Table

Showing models required at different project stages

Stage definitions (from APM) LOD definitions (from PAS 1192)

Model Originators identified by name

- 1 Brief 2 Concept
- 3 Developed Design 4 Production 5 Installation 6 As constructed 7 In use

0 Strategy 1 Brief 2 Concept 3 Definition

4 Design (production information)

5 Build & Commission 6 Handover & Closeout 7 Operation and end of life

	Drop 1		Drop 2a		Drop 2b		Drop 3		Drop 4	
	Stage 1		Stage 2		Stage 2		Stage 3		Stage 6	
	Model	Level of	Model	Level of	Model	Level of	Model	Level of	Model	Level of
	Originator	Detail	Originator	Detail	Originator	Detail	Originator	Detail	Originator	Detail
Overall form and content										
Space planning	Architect	1	Architect	2	Contractor	2	Contractor	3	Contractor	6
Site and context	Architect	1	Architect	2	Contractor	2	Contractor	3	Contractor	6
Surveys							Contractor	3		
External form and appearance			Architect	2	Contractor	2	Contractor	3	Contractor	6
Building and site sections					Contractor	2	Contractor	3	Contractor	6
Internal layouts					Contractor	2	Contractor	3	Contractor	6
Design strategies										
Fire			Architect	2	Contractor	2	Contractor	3	Contractor	6
Physical security			Architect	2	Contractor	2	Contractor	3	Contractor	6
Disabled access			Architect	2	Contractor	2	Contractor	3	Contractor	6
Maintenance access			Architect	2	Contractor	2	Contractor	3	Contractor	6
BREEAM					Contractor	2	Contractor	3	Contractor	6
Performance										
Building	Architect	1	Architect	2	Contractor	2	Contractor	3		
Structural	Architect	1	Str Eng	2	Contractor	2	Contractor	3		
MEP systems	Architect	1	MEP Eng	2	Contractor	2	Contractor	3		
Regulation compliance analysis							Contractor	3	Contractor	6
Thermal Simulation							Contractor	3	Contractor	6
Sustainability Analysis							Contractor	3	Contractor	6
Acoustic analysis							Contractor	3	Contractor	6
4D Programming Analysis										
5D Cost Analysis										
Services Commissioning							Contractor	3	Contractor	6
Elements, materials components							o o i i i doto i		o o ma dotor	
Building			Architect	2	Contractor	2	Contractor	3	Contractor	6
Specifications			MEP Eng	2	Contractor	2	Contractor	3	Contractor	6
MEP systems				_	Contractor	2	Contractor	3	Contractor	6
Construction proposals										
Phasing							Contractor	3		
Site access							Contractor	3		
Site set-up							Contractor	3		
Health and safety										
Design							Contractor	3		
Construction							Contractor	3		
Operation							Contractor	3	Contractor	6
									22	

This is a framework of a generic Information Requirements. Parties may choose to include further detail if they require.

An editable version of the BIM Protocol Appendices are provided on the BIM Task Group Website: www.bimtaskgroup.org

Information Requirements

1. Standards

The following standard(s) shall apply:	

2. Parties

- 2.1 The parties involved in the Project are:
- 2.2 The role of Information Manager shall be performed by the following person or persons for the following stages:

_	 	_		
stages			Person	

3. Employer's Information Requirements

- 3.1 The Common Data Environment shall be_
- 3.2 The Models shall be developed using the following versions of the following software:
- 3.3 The Models shall be delivered by the persons listed below in the following formats:

Person	File format		

- 3.4 Files and layers shall be named and numbered in accordance with
- 3.5 The following units, annotation, dimensions, abbreviations and symbols shall be used in developing a Model
- 3.6 The following co-ordinate system shall be used
- 3.7 The zoning requirements are as follows
- 3.8 Data drops shall take place in accordance with the [Employer's Information Requirements/ Execution Plan]. To the extent that the [Employer's Information Requirements/Execution Plan requires a particular piece of information to be extracted from a Model in more than

one format at any particular Stage, all such formats shall be extracted from the same Model.

4. Project Procedures

- 4.1 The following protocols/procedures shall apply to the Project:
 - Spatial Co-ordination protocol; 4.1.1
 - Model approval/information exchange protocol; 4.1.2
 - 4.1.3 Archiving procedures;
 - 4.1.4 Security requirements and access rights procedures;
 - 4.1.5 [Other]
- 4.2 Resolution of conflicts

specify any circumstances in which information extracted from a Model will take precedence over the Model.