



CPIx on Line

Pre-Contract Building Information Modelling (BIM) Execution Plan (BEP)

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Authored by:

Mervyn Richards MR1 Consulting Ltd
David Churcher Hitherwood Consulting Ltd
Paul Shillcock Operam
David Throssell Skanska Ltd

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The Pre-Contract Building Information Modelling Execution Plan (BEP)

Preface

The pre-contract BEP is prepared by the supplier to demonstrate his proposed approach, and the capability, capacity and competence of his firm and his supply chain to meet the Employers Information Requirements. It will also list all agreed elements as outlined in the Brief, BS1192:2007, PAS1192-2:2013, the CPlx Protocol and the contract documents.

This BEP is structured in accordance with PAS1192-2:2013.

Project Team Representatives and Roles

Company Name	Representative and Authorised Responsible Agent	Role

Document Authority

This project plan has been agreed by the representatives of the project team as listed above with the authority of their parent companies to accept this document for the stated project and use.

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1 Project Information

Table 1 – Project information

Project Name	
Project Address	
Project Number (Clients Project Number or reference)	
Contract Form	
Project Description (EIR)	May be an additional document, please reference.
Project Brief and CDM requirements	
Project Deliverable as defined in the EIR and COBie project templates (see also the CPIx Protocol)	May be an additional document, please reference.

2 Information required by the EIR

PAS1192-2:2013 Clause 5.3 defines the minimum contents of the Employers Information Requirements. The following subsections of the BEP respond to the parts of the EIR specifically requesting bidders' proposals. It is important to remember that the information provided by the supplier in the pre-contract BEP should be sufficient enable the employer to review the supplier's proposed approach, capability, capacity and competence. Further detail will need to be added to the pre-contract BEP once the supplier has been selected and appointed – this is covered in a separate CPIx document.

2.1 *Planning of work and data segregation*

Required in response to the EIR by PAS1192-2 Clause 5.3 a) 3).

The planning of work and data segregation aspects of the project are described in the later parts of this pre-contract BEP.

2.2 *Co-ordination and clash detection*

Required in response to the EIR by PAS1192-2 Clause 5.3 a) 4).

This section of the pre-contract BEP contains the bidders' proposals for managing the co-ordination process. The requirements for co-ordination are stated in PAS1192-2 Clause 9.4.

2.3 *Collaboration process*

Required in response to the EIR by PAS1192-2 Clause 5.3 a) 5).

This is described in Section 4.

2.4 *Health and safety/CDM management*

Required in response to the EIR by PAS1192-2 Clause 5.3 a) 6).

This section of the pre-contract BEP contains the bidders' proposals for using BIM and the Common Data Environment to support the management of health and safety and CDM requirements.

2.5 *Compliance plan*

Required in response to the EIR by PAS1192-2 Clause 5.3 a) 10).

This section of the pre-contract BEP contains the bidders' proposals for managing the co-ordination process. See Section 2.2, above.

3 Project Implementation Plan

This section of the BEP covers the requirements of PAS1192-2 Clause 6.2 a).

The PIP confirms the capability of the supply chain.

The PIP consists of the following completed CPIx documentation:

- **Supply chain capability summary form**, which summarises the contents of ...
- **Supplier building information management assessment form(s)**
- **Supplier IT assessment form(s)**
- **Supplier resource assessment form(s)**

These are available as separate templates on the CPIx website and these forms, once completed, should be incorporated into or appended to this pre-contract BEP.

Where CAD software versions and exchange formats for model and drawing files have not been specified in the Employers Information Requirements, then the PIP shall summarise the proposals being made – see templates in Tables 2 and 3.

Table 2 – Proposed software versions

Company	Database	CAD software	Version	Format	Comments

Table 3 – Proposed exchange formats for models and drawings

	DWG	DGN	DWF	PDF	IFC	Other
Models						
Drawings						
Final drawing format						
Schedules or spreadsheets						

The supplier resource being proposed for the project can also be summarised as per the example in Table 4.

Table 4 – Supplier resource summary

Supplier	Discipline	Resource numbers	Levels of competence	Years of Experience	Names of individuals
<<name 1>>	Qualified Architect	2	RIBA, CAD/BIM, Specification Author		
	Architectural Technologist (CIAT)	3	CIAT, CAD/BIM Trained		
	Architectural Technician	5	Certificate of CAD or Model Competence		
<<name 2>>	Qualified Structural Engineer	3	MIStructE,		
Etc					

4 Project goals for collaboration and information modelling

This section of the BEP covers the requirements of PAS1192-2 Clause 6.2 b).

The project goals for collaboration and information management, and the supplier's proposals for meeting these, must be included in the BEP or appended to it.

Where specific technical solutions are to be proposed for known or suspected issues concerning collaboration or information modelling, then these should be summarised in the following Tables 5, 6 and 7.

Table 5 – Processes for collaboration and information modelling

Company	Solution	Network	Database	File based	Comments

Table 6 – Clash rendition viewer

Agreed clash rendition viewer	Version

Table 7 – Authorisations for security, extranet and document distribution

Company	Authorised Manager	Authority (Upload, download, change Access/Distribution)

5 Major project milestones

This section of the BEP covers the requirements of PAS1192-2 Clause 6.2 c).

The proposed major project milestones relating to information delivery during the project should be summarised in the following Table 8.

Table 8 – Major project milestones

Start Date	Design Completion	Detail Design Completion + Fabrication	Construction	As Constructed Models, Documents and Data	Handover.

Only the major milestones are listed. A more detailed and co-ordinated Master Information Delivery Plan and Project Plan must be developed and agreed with the stakeholders following contract award and included in the post-contract award BEP.

6 Project information model (PIM) delivery strategy

This section of the BEP covers the requirements of PAS1192-2 Clause 6.2 d).

The delivery of the Project information model (PIM) must be considered and stated as a project strategy document, appended to this pre-contract BEP, under the headings listed in Table 9. This should include the deliverables, accuracy and completeness of the design at each stage.

Table 9 – Strategy for information delivery

Brief	Concept	Definition	Design	Build & Commission	Handover & Closeout	In use