



Advice Note

Information Management Roles

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Purpose of Document

PAS1192-2:2013 identifies the types of roles that should be considered and likely responsibilities. The roles indicated here are for guidance only and will differ from project to project depending upon market sector, project size and the supply chain tier you are positioned in.

The roles in this document which are based on roles defined in PAS1192-2:2013 shall not be confused with the titles of the managers, which can differ from organization to organization, but the important factors are the ownership, responsibility and authority.

Clarity of roles, responsibility and authority are an essential aspect of effective information management. Roles should be embedded into contracts, either through a specific schedule of services or more general obligations. Information management roles are likely to be embedded into more extensive project roles – design team leader, principal contractor, etc.

For projects based on PAS1192-2:2013 and the CIC BIM Protocol (Second Edition), any deviations from the roles defined in PAS1192-2:2013 should be identified in the Employers Information Requirements document provided by the Employer and/or the Pre-contract BIM Execution Plan provided by the Project Team as part of the Project Implementation Plan (PIP) at tender stage.

The roles, responsibilities and authorities shall be defined in the post-contract BIM Execution Plan. The roles and responsibilities of individual team members shall be defined, as shall the schedule of responsibilities for deliverables of the overall team, bearing in mind that one person may deliver multiple roles.

Key to the allocation of roles, responsibility and authority is the appropriateness and ability of the organization to be able to deliver. In smaller businesses many of these roles may be executed by the same individual.

Scope

This document is intended to support all BIM work undertaken collaboratively between the design team members identified in the roles defined in PAS1192-2:2013. It is not the intention of this document to state how each organisation will implement BIM with their respective organisations, but organisations are encouraged to ensure that their internal procedures support the roles defined in this document in the interest of project quality control and improving collaborative processes.

The key roles defined in PAS1192-2:2013 include:

- Employer (includes Employer Representative & Employer Technical Advisor)
- Project Information Manager
- Project Delivery Manager
- Lead Designer
- Task Team Manager
- Task Information Manager
- Interface Manager
- Information Originator

RIAI BIM Committee

The BIM committee is working together to realise a unified, usable, co-ordinated approach to Building Information Modelling in a design environment.

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Update Procedure

Proposed changes to this document should be submitted in writing with accompanying examples, discussion or other supportive material to info@riai.ie for the attention of the RIAI BIM Committee. Feedback will be gathered and continuously reviewed; they will be collated to form new revisions at appropriate intervals.

Standards and Publications

This document is written with reference to the following documents:

1. BS 1192:2007+A2:2016 - *Collaborative production of architectural, engineering and construction information - Code of practice.*
2. PAS 1192-2:2013 - *Specification for information management for the capital/delivery phase of construction projects using building information modelling.*

RIAI Publications:

1. RIAI Post Contract Award BIM Execution Plan Advice Note
2. RIAI Post Contract Award BIM Execution Plan Template
3. RIAI Information Management Roles Advice Note
4. RIAI Post Contract Award Appendix 1 - Roles, Responsibilities and Authorities
5. RIAI Responsibility Matrix Advice Note
6. RIAI Responsibility Matrix Template
7. RIAI Compliance Plan Advice Note

8. RIAI Compliance Plan Advice Template
9. RIAI Master Information Delivery Plan (MIDP) Advice Note
10. RIAI Master Information Delivery Plan (MIDP) Template
11. RIAI Task Information Delivery Plan (MIDP) Advice Note
12. RIAI Task Information Delivery Plan (MIDP) Template

Other Publications:

1. Building Information Model (BIM) Protocol (Second Edition) - Construction Industry Council
2. Outline Scope of Services for the Role of Information Management - Construction Industry Council (CIC)
3. Best Practice Guide for Professional Indemnity Insurance when using BIM - Construction Industry Council (CIC)
4. NBS Toolkit - <https://toolkit.thenbs.com>

Update Procedure

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Copyright

This document includes direct references to PAS1192-2:2013, the CIC BIM Protocol (Second Edition), 'The role of the Information Manager is defined in the Outline Scope of Services for the role of Information Management' (first edition 2013) drafted by BL Consult and Beale and Company on behalf of the CIC and the BIM Task Group and 'Best Practice Guide for professional Indemnity Insurance when using Building Information Models' produced by Griffiths and Armour on behalf of the CIC and the BIM Task Group.

It is important to note that this document will only become truly useful if as many companies adopt it as possible. To that extent, it may be freely distributed and used in any format necessary, provided credit is given to the RIAI BIM Committee.

Disclaimer

All the advice outlined in this document is for information only. The authors and contributing companies take no responsibility for the utilisation of these procedures and guidelines. Their suitability should be considered carefully before embarking upon any integration into your current working practices.

Information Management Responsibility Matrix

PAS 1192-2:2013 identifies the types of roles that should be considered and likely responsibilities. It should be remembered that PAS1192-2:2013 should be read in conjunction with other contract documentation such as the Plans of Work and Schedule of Services. The roles indicated in PAS 1192-2:2013 are for guidance only and will differ from project to project depending upon market sector, project size and the supply chain tier you are positioned in. Key to the allocation of roles, responsibility and authority is the appropriateness and ability of the organization to be able to deliver. In smaller organisations many of these roles may be executed by the same individual.

Any deviations from the roles in PAS1192-2:2013 should be identified in the Employers Information Requirements (EIR) and subsequently included in the BIM Execution Plan. The NBS Toolkit may be used to prepare the Responsibility Matrix which should be included in the tender documents as a Digital Plan of Work (DPoW). The Responsibility Matrix should be updated at Contract Award with names of those responsible for each role.

Section 7.5 of PAS1192-2:2013 defines roles associated with Information Management and the responsibilities and authorities associated with those roles. The following matrix summarises those responsibilities:

R = Responsible for undertaking activity C = Consulted during activity I = Informed following activity completion

	Employer	Project Roles			Task Team Roles			
		Project Information Manager	Project Delivery Manager	Lead Designer	Task Team Manager	Task Information Manager	Interface Manager	Information Originator
Assessment and Need								
Establish Organisation Information Requirements (OIR)	R							
Establish Asset Information Requirements (AIR)	R							
Invitation to Tender								
Establish Initial Project Programme	R							
Establish Roles	R							
Establish Employers Information Requirements (EIR)	R							
Tender Response								
Establish Task Teams		I	I	R	I	I	I	
Establish Pre-contract BIM Execution Plan (BEP)		C	C	R	C	C	C	
Establish Project Milestones (consistent with the Initial Project Programme)		I	R	I	I	I	I	
Establish the Delivery Teams Capability and Capacity		C	R	C	I	I	I	
Appointment								

Establish the delivery team's detailed responsibility matrix		C	R	C	C	C	I	
Establish the Master Information Delivery Plan (MIDP)		C	R	C	I	I	I	
Establish the Post-contract BIM Execution Plan (BEP)		R	C	C	C	C	C	
Confirm the Post-contract BIM Execution Plan (BEP)		I	I	R	I	I	I	
Complete Appointment documents (including BIM Protocol)	R	C	C	I				
Complete Sub Appointment documents (including BIM Protocol)		C	C	R	I	I	I	
Mobilisation								
Mobilise Resources		C	C	R	C	C	C	
Establish the Common Data Environment (CDE)		R	I	I	I	C	I	I
Test the agreed Standard Methods and Procedure in the BEP		R	I	I	I	C	I	I
Establish the Compliance Plan / QA Procedures		R	I	I	I	I	I	I
Establish the Project Execution Plan		I	I	R	I	I	I	
Establish the Volume Strategy		C	C	R	C	C	C	I
Establish the Task Information Delivery Plan (TIDP)		I	I	I	R	C	C	
Collaborative production of information (Gate 1 & 4)								
Generate information					I	I	C	R
Ensure clashes are avoided and escalate clashes which cannot be avoided					I	I	R	I
Resolve clashes				R	C	I	I	I
Audit Information in accordance with the Compliance Plan					I	R	I	I
Review information and approve for sharing		I	I	I	R	C	C	C
Information Exchanges (Gate 2)								
Information model review (prior to information exchange)		C		R	C	C		
Submit information model for Employer authorisation		I	I	R	I	I		
Review and authorise the		I	R	I				

information model								
Submit information model for Employer acceptance		I	I	R				
Review and accept the information model	R	I	I	I				
Project Close-out (End of delivery phase)								
Archive project's common data environment		R	I					
Capture Lessons for future projects	R	C	C	C	C	C	C	

Employer Roles

Employer (which includes Employers Representative and Employer Technical Advisor)

PAS1192-2:2013 identifies an Employer is an individual or organization for whom the contract is executed and delivered. A Client is an individual or organization commissioning a built asset. The client may be different from the employer.

The Employer is responsible for the establishment of an **Organisation Information Requirements** (OIR) document and an **Asset Information Requirements** (AIR) document. The OIR is a high level strategic document which may set out goals like achieving LEED Gold for all future buildings or increasing utilisation of space by 20%. The AIR is a strategy for maintaining assets and should include a list of maintainable assets. Both OIR & AIR are “internal documents”. At the start of a capital project, the Employer should document their requirement in the Employers Information Requirement (EIR) and identify the roles and responsibilities for Task Teams.

The Employer is responsible for the provision of a clear definition of the **Employer’s Information Requirements** (EIR) and key **decision points** (to form part of the contract possibly through adoption of the CIC BIM Protocol). EIRs are produced as part of a wider set of documentation for use during project **procurement** and shall typically be issued as part of the employer’s requirements or tender documentation. The development of the EIR shall start either with the assessment of an existing asset, leading to the development of the employer’s need, or directly with the employer’s need if no existing asset or asset information model is to be considered.

Responsibility for the delivery of information in principle rests with the employer who discharges accountability to the design or construction team as appropriate. Allocation of these **responsibilities** shall be project specific and **documented in the contract**.

The Employer is responsible for the **evaluation of the proposed approach, capability and capacity** of each supplier, and their supply chain, to deliver the required information, **prior to contract award**.

The Employer shall arrange for a completed **BIM Protocol** and for the obligations to be incorporated into all Project Agreements in substantially the same terms as the protocol. The Employer should comply with its obligations under the Project standards, methods and procedures referred to in the Information Particulars.

The Employer is responsible for the **appointment of the Information Manager** to be made, changed or renewed as necessary such that there is at all times until the end of the Project. Typically the lead designer is appointed as project information manager for design stage, and the main contractor is appointed as project information manager for construction stage.

For **sensitive** or potentially sensitive built assets, the Employer is responsible for the **appointment of the Built Asset Security Manager** to be made, changed or renewed as necessary such that there is at all times until the end of the Project.

The Employer is responsible for **authorising information** in the Client Shared Area of the **Common Data Environment** (CDE) and Sign-off of information for Publication, and for “verification” or final acceptance of information for “archiving”.

Project Roles

The Project Roles may involve **additional services**, beyond those traditionally expected from a consultant, it is important that it is discussed with consultants before they are appointed and their scope of services and fee is agreed. The client cannot assume that these services will be carried out within the agreed fee for one of the Consultant / Task Team roles.

Project Information Manager

On projects led with the CIC BIM Protocol (Second Edition), a key role is the Information Manager. The Information Manager has a role in facilitating the management of the **federated model** and the production of **project outputs**. The Information Manager is also responsible for managing the operation, standards and culture of the **Common Data Environment (CDE)**. The Information Manager is not a standalone role and is expected to shift from design team to contractor prior to start on site.

The role of the Information Manager is defined in the **Outline Scope of Services for the role of Information Management** (first edition 2013).

The **Employer** is responsible for the **appointment** and any changes to the **Information Manager** from inception to the completion of the project. The CIC BIM Protocol (Second Edition) describes the Employer's Information Manager as the person (or persons) appointed, initially by the Employer or the owner of the built asset which is the subject of the Project, to perform a role in connection with the Project which includes, amongst other things, the **establishment and management of the processes, protocols and procedures set out in the Information Particulars**.

The 'Best Practice Guide for professional Indemnity Insurance when using Building Information Models' requires that under the CIC BIM Protocol, the **employer is obligated to appoint a party to the role of "Information Management"**. The Information Management role is expected to be undertaken as part of a wider appointment – typically the Project Lead or Design Team Lead, or main contractor.

The Outline Scope of Services for the role of Information Management requires that the role of Information Management is expected to be delivered as part of an existing appointment by a **capable resource**. The role requires **significant management, technical and commercial knowledge and experience**. At present, there is very limited accredited courses and/or examinations that define capability to ensure capability for the specific role of Information Management, a comprehensive knowledge of Level 2 processes based on PAS1192-2:2013 with experience delivering to this and associated standards is important especially for large and complex projects. Employers should **assess capability prior to engaging a project team** through capability assessment forms or an interview process as part of a PQQ or tendering process.

Any **deviations** from the role of Information Manager identified in the Outline Scope of Services for the role of Information Management (first edition 2013) should be included in the Employers Information Requirements document provided the Employer during procurement. Any subsequent deviations agreed between the Employer and the Information Manager should be included in the BIM Execution Plan.

The Information Manager is responsible for developing a **post-contract BIM Execution Plan** and must ensure that all stakeholders are in alignment with the BIM Execution Plan.

Depending on the procurement process, the Information Manager role may transfer to another party at construction stage or another alternative is that the Information Manager for the design stage may become part of a design monitoring team which checks and authorises information on behalf of the employer. The focus at construction stage is ensuring information is suitable for transfer to the Asset Information Model.

The role of Information Manager does not include design responsibility or right to issue instructions.

The CIC Outline Scope of Services for Information Management includes:

1. Common Data Environment

- o Establish a Common Data Environment including processes and procedures to enable reliable information exchange between Project Team Members, the Employer and other parties.
- o Establish, agree and implement the information structure and maintenance standards for the Information Model.
- o Receive information into the Information Model in compliance with agreed processes and procedures. Validate compliance with information requirements and advise on non-compliance
- o Maintain the Information Model to meet integrity and security standards in compliance with the employer's information requirement.
- o Manage Common Data Environment processes and procedures, validate compliance with them and advise on non-compliance.

Note 1: The Common Data Environment processes and procedures in compliance with BS1192:2007+A2:2016 should be documented as part of the Common Data Environment Procedure as an appendix to the BIM Execution Plan.

Note 2: A Compliance Plan should also be included as an appendix to the BIM Execution Plan which includes a methodology for checking if the Project Information Model (PIM) complies with these processes and procedures. The Information Manager may accept or reject Information Exchanges in the Common Data Environment.

2. Project Information Management

- o Initiate, agree and implement the Project Information Plan and Asset Information Plan covering:
 - information structure across roles e.g. software platforms (all levels of supply chain) appropriate to meet Employer requirements and Project Team resources.
 - responsibility for provision of information at each Stage
 - level of detail of information required for specific Project Outputs e.g. Planning, Procurement, FM Procurement.

- the process for incorporating as-constructed, testing, validation and commissioning information.
- o Enable integration of information within the Project Team and coordination of information by Design Lead.
- o Agree formats for Project Outputs.
- o Assist Project Team Members in assembling information for Project Outputs.

Note 3: The information provided in the Project Information Model (PIM) should be complete and correct at the agreed Information Exchanges. The Information Manager is responsible for ensuring that all parties who provide models or information to be included in the models meet the Employers Information Requirements relevant to the Information Exchange which should align with the Master Information Delivery Plan (MIDP) and the Responsibility Matrix.

Note 4: The Information Manager should enable the project team to develop a set of information models to be combined in a federated model using shared coordinates.

Note 5: The Information Manager should execute the division of models based on the Volume Strategy established by the Lead Designer.

Note 6: The Information is responsible for ensuring that the combined outputs are in compliance with the EIR. The Information Manager should ensure that agreed file formats are included in Appendix 2 of the BIM Protocol. Careful consideration must be given also by the Information Manager to the naming and types for data included in the model to ensure that the transition to the Asset Information Model is as efficient as possible while ensuring data integrity.

3. Collaborative working, information exchange and project team management

- o Support the implementation of the Project BIM protocol including updating the Appendices.
- o Liaise with and co-operate with Project Team Members and the Employer in support of a collaborative working culture.
- o Assist the Project Team Members in establishing information exchange processes, including:
 - define and agree procedures for convening, chairing, attendance and responsibility for recording “information exchange process meetings”
- o Participate in and comply with project team management procedures and processes including:
 - risk and value management
 - performance management and measurement procedures
 - change management procedures including adjustments to budgets and programme
 - attendance at project and design team meetings as required
 - agree and implement record keeping, archiving and audit trail for Information Model

Note 7: The BIM Protocol should be completed as part of the agreement/contract with the employer. The Information Manager may assist with the completion of Appendix 1, 2 and 3 of the CIC BIM Protocol (Second Edition).

Note 8: The Information Manager should consult with the Task Team members as early as possible in preparing the pre-contract BIM Execution Plan and compliance questionnaires as part of the project Implementation Plan (PIP).

Note 9: In conjunction with the Project Delivery Manager, the Information Manager should coordinate hand over of model and data at the agreed Information Exchanges in the Master Information Delivery Plan. The Information Manager should provide the Project Delivery Manager with adequate records for BIM models and their status to ascertain if project Information Exchanges can and are being met.

4. Additional Services

- o Provide the services to host the Common Data Environment

Note 10: The Information Manager is responsible for enabling a fully functional CDE. This may or may not involve procuring and/or purchasing the CDE depending on the Employers Information Requirements provided when tendering for the project team.

Project Delivery Manager

The Project Delivery Manager is a role identified in PAS1192-2:2013. Employers are strongly advised to identify the role of Project Delivery Manager in the Employer Information Requirements.

The Project Delivery Manager must ensure, through questioning, prompting, and implementing process, that the appropriate project activities are implemented **at the right time, in the right way, by the right project team members**. While not normally involved in model authoring the Project Delivery Manager is, rather, responsible for ensuring that the key elements required to deliver a successful project are present and correct and, necessarily, spans much of the project lifecycle. It is the Project Delivery Manager who oversees delivery of the Asset Information Model (AIM) at handover.

Following contract award, the Project Delivery Manager shall initiate a project induction meeting to:

- **confirm resource availability and capability** in relation to the Information Exchanges included in the Responsibility Matrix at Appointment / Contract signing as part of the BIM Protocol
- identify **training and education needs**, and;
- collaborate to develop the **Master Information Delivery Plan (MIDP)** with reference to the team members' Task Information Delivery Plans (TIDPs) which are prepared by the Task Team Managers. The Master Information Delivery Plan collates the separate task information delivery plans, and aligns them with the design and construction programmes.

The responsibilities of the Project Delivery Manager as defined in PAS1192-2:2013 include:

- Assure delivery of information exchanges.
- Confirm suppliers ability to deliver information requirements.

The Project Delivery Manager has the authority to:

- Accept / Reject Information Exchanges within the Common Data Environment (CDE).

The **Master Information Delivery Plan (MIDP)** shall be used by the Project Delivery Manager to manage the delivery of information during the project. The MIDP shall list the information deliverables for the project, including but not limited to models, drawings or renditions, specifications, equipment schedules, room data sheets, reports, etc and shall be managed via change control.

The Project Delivery Manager should work closely with the Information Manager to ensure that the Information Manager provides **adequate records of BIM models** and their status. The Project Delivery Manager should identify any impact on the Master Information Delivery Plan arising from errors in the transmission and use of information during the BIM process.

Note: The Project Delivery Manager role may be commonly fulfilled by the Project Manager. For the benefit of consistency, Project Delivery Manager should be used. Even where a Project Manager is not utilised, the Project Delivery Manager role should be assigned to an organisation or individual who should undertake all tasks associated with that role under PAS1192-2:2013.

Lead Designer

The Lead Designer is a fundamental for role level 2 BIM identified in section 7.5 of PAS1192-2:2013.

The role involves the **delivery of a co-ordinated design information** model to the employer containing graphical and non-graphical information through a single point of responsibility, likely to be the Lead Designer or the Contractor.

The responsibilities of the Lead Designer as defined in Table 2 of PAS1192-2:2013 include:

- Coordinated delivery of all design information
- Advise on information development
- Confirm design deliverables
- **Confirm status and approve information** for issue within the **Common Data Environment (CDE)**.
- **Approve design changes proposed to resolve clashes**. If a clash is detected which cannot be resolved by the task team **Interface Managers** then the lead designer shall be involved in the discussion to reach agreement and make the necessary changes to the models.

Additionally, in accordance with 3.47 of PAS1192-2:2013, the Lead Designer is responsible for allocating volumes as part of the **Volume Strategy**.

Figure 10 in PAS1192-2:2013 notes that: *All the roles defined in this PAS, and their respective responsibilities and authorities, are stated only in connection with information management. Other arrangements may be put in place for other aspects of the overall project.*

The lead designer will often be the architect, however this is not necessarily the case and appointment documents for other consultants will generally offer provision for them to be nominated lead designer.

For example, on a very highly serviced building, or part of a building, the services engineer might be an appropriate lead designer. The building surveyor might be appointed as lead designer on a refurbishment or renovation project where their training and expertise in building materials applied to the existing fabric makes them uniquely qualified for the role.

Task Team Roles

Task Teams are any team assembled to complete a discreet discipline or supplier task. Examples: Architectural Task Team Structural Task Team or Multi disciplinary Task Team to design a specialist part of the project, say bespoke curtain wall. This may also include the specialist and professional design teams collaborating to complete that Task.

Task Team Manager

The Task Team Manager is a role identified in PAS1192-2:2013.

The responsibilities of the Task Team Manager as defined in PAS1192-2:2013 include:

- Production of design outputs related to a discipline specific, package based or time-based task. Each Task Team Manager shall compile their own Task Information Delivery Plan (TIDP), with its milestones. These shall be used to convey the responsibility for delivery of each supplier's information.
- Issue approved information within the common data environment.
 - Each Task Team Manager shall check, review and approval process shall be carried out before issue to the SHARED area.
 - Each task team manager shall change the status of their team's signed-off information, update the revision and issue the information and model(s) to the PUBLISHED part of the CDE.

Note: The Task Team Manager role may be commonly be fulfilled by the Project Director, Project Architect, Project Engineer, etc within an organisation. For the benefit of consistency with standards, Task Team Manager should be used.

Task Information Manager

The Task Information Manager is a role identified in PAS1192-2:2013.

The responsibilities of the Task Information Manager as defined in PAS1192-2:2013 include:

- Direct the production of task information in compliance with standards and methods
- Direct the production of task information using agreed systems
- Confirm that information is suitable for issue within a common data environment

Note: The Task Information Manager role may be commonly known as the Project BIM Manager within each participating organisation. For the benefit of consistency with standards, Task Information Manager should be used.

Interface Manager

The Interface Manager is a Task Team role identified in PAS1192-2:2013.

The responsibilities of the Interface Manager as defined in PAS1192-2:2013 include:

- Manage spatial coordination on behalf of a task team
- Propose resolutions to coordination clashes
- Propose resolutions to clashes

The Interface Manager shall carry out clash detection in accordance with the process and tolerances defined in the BIM Execution Plan.

If a clash is detected which cannot be resolved by the Interface Manager then the lead designer shall be involved in the discussion to reach agreement and make the necessary changes to the models.

Information Originator

The Information Originator is a role identified in PAS1192-2:2013.

The responsibilities of the Information Originator as defined in PAS1192-2:2013 include:

- Develop constituent parts of the information model in connection with specific tasks
- Production of project outputs
- Ownership of model information

Competencies for Roles defined in PAS1192-2

The following table is used to identify the project roles defined in Section 7.5 of PAS1192-2:2013 and the competency required for each role. Task Teams should review the competency of their staff to undertake the relevant roles.

Role	Responsibility	Authority	Competency Required
<p>Project Delivery Manager</p>	<p>Assure delivery of information exchanges.</p> <p>Confirm supplier's ability to deliver information requirements.</p>	<p>Accept /reject information exchanges within the common data environment.</p>	<p>Strong people and project management skills to drive the BIM process.</p> <p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom.</p> <p>Ability in the use of CDE systems.</p> <p>Ability to View/Interrogate the federated model(s).</p>
<p>Project Information Manager</p>	<p>Enable reliable information exchange through a common data environment.</p> <p>Maintain and receive information into the Information Model.</p> <p>Enable integration and coordination of information within Information Model.</p> <p>Configure information for Project Outputs.</p> <p>Populate the information exchange format for the Information Model.</p>	<p>Enforce the Project BIM Execution Plan and ensure delivery of the Information requirement in the EIR.</p> <p>Accept /reject information exchanges within the common data environment.</p> <p>No design responsibility or right to issue instructions.</p>	<p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom.</p> <p>Ability in the use of CDE systems.</p> <p>Ability to View/Interrogate the federated model(s).</p> <p>Ability to carry out Model Checking & Reporting.</p> <p>Ability in the use of Asset Information validation systems.</p>

<p>Lead Designer</p>	<p>Coordinated delivery of all design information</p> <p>Manage information development and information approvals</p> <p>Confirm design deliverables</p> <p>Overall lead for configuration management</p> <p>If a clash is detected which cannot be resolved by the Task Team Interface Manager, then the lead designer shall be involved in the discussion to reach agreement and make the necessary changes to the models.</p>	<p>Approve design changes proposed to resolve clashes.</p> <p>Confirm status and approve information for issue within the common data environment.</p>	<p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom.</p> <p>Ability in the use of CDE systems.</p> <p>Ability to View/Interrogate the federated model(s).</p> <p>Ability to run BIM coordination meetings and clash detection reports.</p> <p>Ability to Interact with Design Software as required.</p>
<p>Task Management (Project Team Members)</p>			
<p>Task Team Manager</p>	<p>Managing Production of design outputs related to a task team specific, package based or time-based task.</p>	<p>Issue approved information within the common data environment</p>	<p>Strong people and project management skills to drive the BIM process within internal Task Team.</p> <p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by the Task Team.</p> <p>Ability in the use of CDE systems.</p> <p>Ability to View/Interrogate the federated model(s).</p>

<p>Task Information Manager (Information Management)</p>	<p>Direct the production of task information in compliance with standards and methods. Direct the production of task information using agreed systems.</p>	<p>Confirm that information is suitable for issue within a common data environment.</p>	<p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom. Ability in the use of CDE systems. Ability to View/Interrogate the federated model(s). Ability to carry out internal BIM coordination and clash detection. Ability to carry out Model Checking & Reporting.</p>
<p>Task Interface Manager (Spatial Coordination and Clash Detection)</p>	<p>Manage spatial coordination on behalf of a task team. Propose resolutions to coordination clashes.</p>	<p>Propose resolutions to clashes.</p>	<p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom. Ability in the use of CDE systems. Ability to View/Interrogate the federated model(s). Ability to carry out internal BIM coordination and clash detection. Ability to carry out Model Checking & Reporting. High level of technical ability to resolve interface issues. Ability to Interact with Design Software as required.</p>

<p>Information Originator (Geometry and information)</p>	<p>Develop constituent parts of the information model in connection with specific tasks. Production of project outputs.</p>	<p>Ownership of model information.</p>	<p>Understanding of BIM and the elements of PAS1192-2 process, especially the timing of when elements need to be implemented and by whom. Ability in the use of CDE systems. Ability to View/Interrogate the federated model(s). High level of Technical ability to produce, manage and exchange information using BIM design software and related tools.</p>
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