**buildingSMART International Use Case Management - Proposal of mapping local life cycle phases to ISO 22263**

V1.0.0

The ISO 29481-1 defines the reference life cycle stages which should be used for the exchange requirements.
The ISO 29481-1 distinguishes between standard life cycle stages and local life cycle stages. For an unambiguous classification of the exchange requirements it is necessary to reference the local life cycle stages to the standard life cycle stages.
The table below is a non-binding suggestion for mapping local life cycle stage4s to ISO 22263. Before use, the project team must perform an independent review

| bSI Phases | ISO 22263:2008 (acc. ISO 29481-1:2016) | | | ISO 12006-2 | | bSI IDM | Generic Stages (Use Case Management) | | RIBA plan of work (Royal Institute of British Architects) | | CSI / CSC Omni Class Table 31 - Phases (Canada / USA) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Design | 0 | Inception | Portfolio requirements | 1 | inception / procurement | portfolio requirements | 1 | Development | 0 | Strategic Definition | 31-10 00 00 | Inception Phase |
| | | | | 2 | feasibility | conception of need | | | | | 31-20 00 00 | Conceptualization Phase |
| | 1 | Brief | Conception of need | 3 | outline proposals, programme preparation | outline feasibility | | | 1 | Preparation and Brief | | |
| | 2 | | Outline feasibility | | | | | | | | | |
| | 3 | | Substantive feasibility | | | substantive feasibility | | | 2 | Concept Design | | |
| Procure | 4 | Design | Outline conceptual design | 4 | scheme detail / costing | outline conceptual design | 2 | Design | 3 | Developed Design | 31-30 00 00 | Criteria Definition Phase |
| | | | | | | full conceptual design | | | 4 | Technical Design | 31-40 00 00 | Design Phase |
| | 5 | | Full conceptual design | 5 | detail design/ costing | coordinated design and procurement | | | | | 31-50 00 00 | Coordination Phase |
| | 6 | | Coordinated design (and procurement) | 6 | production information and bills of materials | production information | 3 | Engineering | | | | |
| | | | | 7 | tender action | | | | | | | |
| Assemble | 7 | Production | Production Information | 8 | construction preparation | construction | 4 | Consturction | 5 | Construction | 31-60 00 00 | Implementation Phase |
| | 8 | | Construction | 9 | construction operations onsite | | | | | | | |
| | | | | 10 | completion | | | | 6 | Handover and Close Out / Operation | 31-70 00 00 | Handover Phase |
| Operate | 9 | Maintenance | Operation and maintenance | | | operations & maintenance | 5 | Opertaion | 7 | In Use | 31-80 00 00 | Operational Phase |
| | | | | 11 | feedback | disposal | | | | | 31-90 00 00 | Closure Phase |
| | 10 | Demolition | Disposal | | | | 6 | Dismantling | | | | |

| bSI Phases | ISO 22263:2008 (acc. ISO 29481-1:2016) | | | HOAI (Germany) | | SIA 112 (Switzerland) | | | | ÖNORM (Austria) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No | Name | Description | No | Name | No | Name | No | Name | No | Name | No | Name |
| Design | 0 | Inception | Portfolio requirements | LP1 | Programming | 1 | Strategic Planning | 11 | Solution Strategy | 0 | Project strategic definition | 0.1 | Feasibility study |
| | | | | | | | | | | | | 0.2 | Feasibility evaluation |
| | 1 | Brief | Conception of need | | | 2 | Preliminary studies | 21 | Project definition / Feasibility Studies | 1 | Project preperation and brief | 1.1 | Project definition |
| | 2 | | Outline feasibility | | | | | 22 | Selection process | | | 1.2 | Project concept |
| | 3 | | Substantive feasibility | | | | | | | | | 1.3 | Project core objectives |
| Procure | 4 | Design | Outline conceptual design | LP2 | Planning for Preliminary Design | 3 | Project Planning | 31 | Concept Design | 2 | Planning | 2.1 | Base models |
| | | | | LP3 | Planning for Conceptual Design | | | | | | | 2.2 | Concept design |
| | 5 | | Full conceptual design | LP4 | Planning for Submission and Permission | | | 32 | Detail Design | | | 2.3 | Design |
| | 6 | | Coordinated design (and procurement) | LP5 | Planning for Execution – Documents | | | 33 | Planning Permission | | | 2.4 | Planning submission |
| | | | | LP6 | Prepare Tendering | 4 | Tendering Phase | 41 | Offer Comparison | | | 2.5 | Technical design |
| | | | | | | | | | | | | 2.6 | Bidding |
| Assemble | 7 | Production | Production Information | LP7 | Contract Agreement | 5 | Construction Phase | 51 | Construction Design | 3 | Award of contract | 3.1 | Procurement |
| | 8 | | Construction | LP8 | Construction Supervision – Assembly | | | 52 | Construction | 4 | Construction | 4.1 | Contractor plan and coordinated construction planning |
| | | | | | | | | 53 | Commission Phase | | | 4.2 | Construction |
| Operate | 9 | Maintenance | Operation and maintenance | LP9 | Handover & Documentation | 6 | Operation & Maintenance | 61 | Operation | 5 | Use | 5.1 | Operation (CAFM) |
| | | | | | | | | 62 | Maintenance | | | 5.2 | Maintainance |
| | | | | | | | | 63 | | | | | |
| | 10 | Demolition | Disposal | | | | | | | | | | |