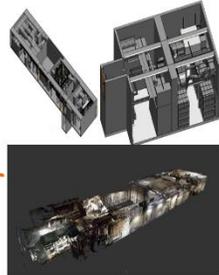


SURVEY (SCAN TO BIM) BIM SERVICES

Creation of 3D Model



Construction Drawing



COBIE BIM

Item	Description	Value	Unit	Quantity
1	Structure	Steel	kg	100000
2	Roofing	Asphalt Shingles	Sq. M	5000
3	Interior Finishes	Paint	L	10000
4	Electrical	Wiring	M	1000
5	Plumbing	Pipes	M	500
6	Mechanical	HVAC Units	EA	10
7	Sanitary	Toilets	EA	5
8	Structural	Concrete	Cu. M	1000
9	Roofing	Membrane	Sq. M	1000
10	Interior Finishes	Carpet	Sq. M	1000
11	Electrical	Switches	EA	100
12	Plumbing	Sinks	EA	5
13	Mechanical	Boilers	EA	1
14	Sanitary	Bathtubs	EA	1
15	Structural	Rebar	kg	10000
16	Roofing	Trusses	EA	10
17	Interior Finishes	Wallpaper	Sq. M	1000
18	Electrical	Conduits	M	1000
19	Plumbing	Valves	EA	100
20	Mechanical	Filters	EA	10
21	Sanitary	Showerheads	EA	5
22	Structural	Formwork	Sq. M	1000
23	Roofing	Insulation	Sq. M	1000
24	Interior Finishes	Lighting	EA	100
25	Electrical	Outlets	EA	100
26	Plumbing	Drains	M	1000
27	Mechanical	Coils	EA	10
28	Sanitary	Staircases	EA	1
29	Structural	Columns	EA	10
30	Roofing	Roofs	EA	10
31	Interior Finishes	Floors	EA	10
32	Electrical	Transformers	EA	1
33	Plumbing	Water Heaters	EA	1
34	Mechanical	Chillers	EA	1
35	Sanitary	Handrails	M	1000
36	Structural	Beams	EA	10
37	Roofing	Downpipes	M	1000
38	Interior Finishes	Partitions	Sq. M	1000
39	Electrical	Generators	EA	1
40	Plumbing	Water Meters	EA	1
41	Mechanical	Exhaust Fans	EA	10
42	Sanitary	Staircases	EA	1
43	Structural	Foundations	EA	10
44	Roofing	Roofs	EA	10
45	Interior Finishes	Partitions	Sq. M	1000
46	Electrical	Generators	EA	1
47	Plumbing	Water Meters	EA	1
48	Mechanical	Exhaust Fans	EA	10
49	Sanitary	Staircases	EA	1
50	Structural	Foundations	EA	10

Index

- About us
- Services we do
- Execution Process
- D & D Core Team
- Project Reference
- Contact US

About us

Survey or Scan to BIM or Point Cloud is the process in which an existing building or structure is scanned through a 3D laser scanning device, and the scanned data is then converted into a 3D BIM model to get a detailed virtual representation and as-built information of the building.

This service is required by major construction companies, builders, architects and contractors for preparing existing building model and drawing sheets.

We have separate point cloud team capture detailed information about an element in its physical space and allow precise and accurate modeling, coordination and quantity take-off. We have executed several projects at renovation or extension stage for point cloud to BIM for international clients in USA, Canada, Australia, New Zealand & UK, Ireland with other European countries.



6+
Years' Experience

300+
Completed Projects

150+
Customer world wide

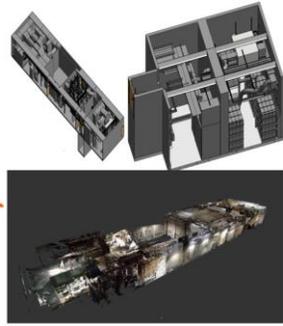
TRADES TO COVER

- Architectural Model
- Structural Model
- Site Model
- Mechanical Model
- Electrical Model
- Plumbing Model
- Fire Model
- Basic Drawings from Model
- Animation/Rendered Snapshot

SURVEY BIM SERVICES

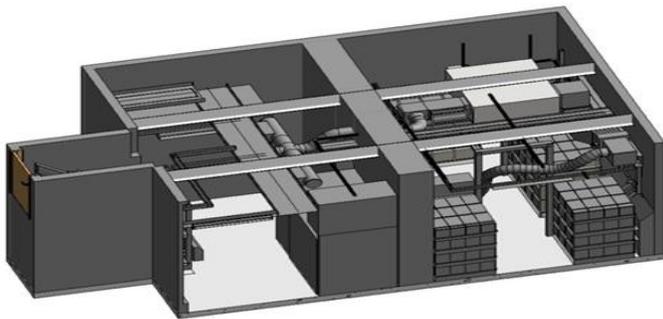
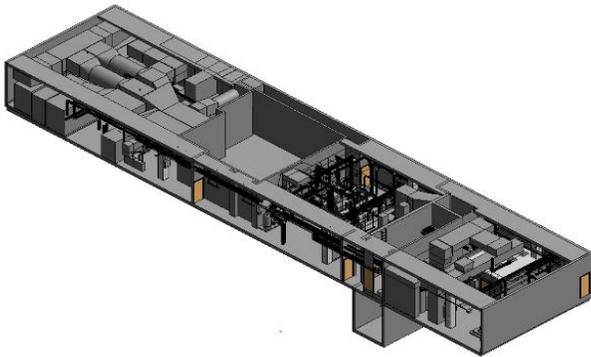
- CREATION OF 3D MODEL
- CONSTRUCTION DRAWING
- COBIE BIM

Creation of 3D Model



We create 3D model from scan document or point cloud files. We use to link the impact scan files to revit to work on for all trades each element as per standard requirement.

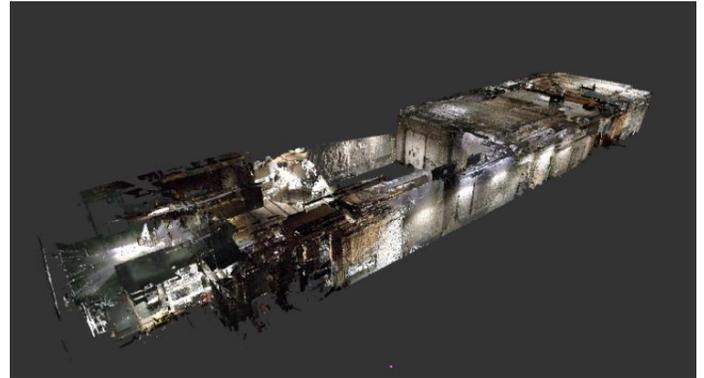
Supporting Software Applications like Revit & Autodesk Recap 360 Pro for Point Cloud help to visualize and navigate the point cloud files properly. Moreover, by using these software platforms, files can be compressed and dimensions can be easily obtained for BIM model.



Input Requirement for BIM modeling & Drawings:

- Scan plan with number
- point cloud files as per the formats like. Obj. Sbj

- Scan data (RCS) supporting
- Actual Snapshots of existing condition
- As-built drawings
- COBIE data format for BIM
- Element Tag for modeling



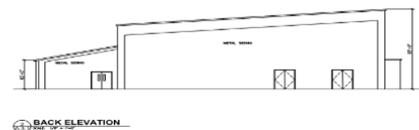
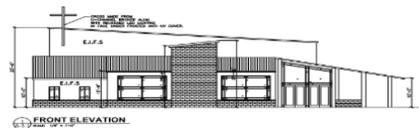
Construction Drawing

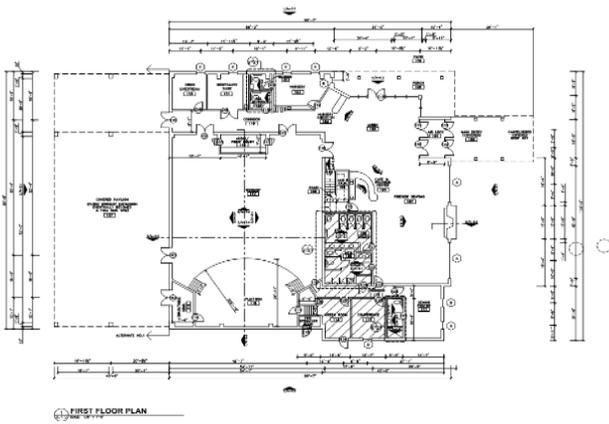


Once 3D model works use to completed. We do our standard QC1 to finalize the 3D model. After approval from the client, we use to generate the construction drawings or as built drawing sheet with proper annotation and dimension and standard requirement.

Input

Approved 3D model





FIRST FLOOR PLAN

Search parameters	
Parameter	Value
Dimensions	
ManufacturerOverallHeight	1190.0
ManufacturerOverallDepth	500.0
ManufacturerOverallWidth	898.0
Identity Data	
Airflow (m3/h)	900
Control	Soft-touch
FanSpeeds	5
FilterQty	3
FilterType	Stainless Steel - Mesh
InbuiltMotorPower	-
Lights	2 x LED
MotorType	Single External Motor
ProductCategory	Wallmount
ProductType	Silent Rangehood
Type Image	
Keynote	
Model	WM2190S
Manufacturer	Schweigen
Type Comments	
URL	
Description	Silent Wallmount Rangehood 900mm
Assembly Code	
Cost	
WarrantyOnCanopy	5 Years
WarrantyOnFilters	Lifetime
WarrantyOnMotor	10 Years
WarrantyOnUnit	-
Wattage	3

COBIE BIM

Parameter	Value	Brand	Schweigen S
Dimensions			
ManufacturerOverallHeight	1190.0	Product Type	Onboard Rangehood
ManufacturerOverallDepth	500.0	Product Category	Undermount
ManufacturerOverallWidth	898.0	Product Model	MSWX90
Identity Data			
Airflow (m3/h)	900	Product Code/SKU	MSWX90
Control	Soft-touch	URL	S346426-02
FanSpeeds	5	URL	Undermount Rangehood 900mm (Non-Silent) - MSWX90
FilterQty	3	Dimensions	898(x) x 295(x) x 325(mm)
FilterType	Stainless Steel - Mesh	Lights	2 x LED
InbuiltMotorPower	-	Wattage	2
Lights	2 x LED	Filter Type	Stainless Steel - Baffle
MotorType	Single External Motor	Filter Qty	2
ProductCategory	Wallmount	Finish	Stainless Steel
ProductType	Silent Rangehood	Motor Type	Single Internal Motor
Type Image		Fan Speeds	5
Keynote		Airflow (m3/h)	1110
Model	WM2190S	dBa	47.1
Manufacturer	Schweigen	dBa	66.9
Type Comments		Inbuilt	260W
URL		Control	Touch & Remote
Description	Silent Wallmount Rangehood 900mm	Auto Off	10 min
Assembly Code		Warranty on Motor	-
Cost		Warranty on Canopy	-
WarrantyOnCanopy	5 Years	Warranty on Unit	5 Years
WarrantyOnFilters	Lifetime	Warranty on Filters	Lifetime
WarrantyOnMotor	10 Years	Warranty on GU10	-
WarrantyOnUnit	-	Globes	
Wattage	3		

COBIE data is the technical information or approved technical submittals which are collected from scanned submittals.

We use to fix parameter sheet from submittals or sometime client use to same with us the standard parameter to fill.

We incorporate COBIE data after completion and approval of BIM 3D model.

Our BIM team to incorporate the COBIE data in the BIM model, family which use to control and maintained for BIM records as built.

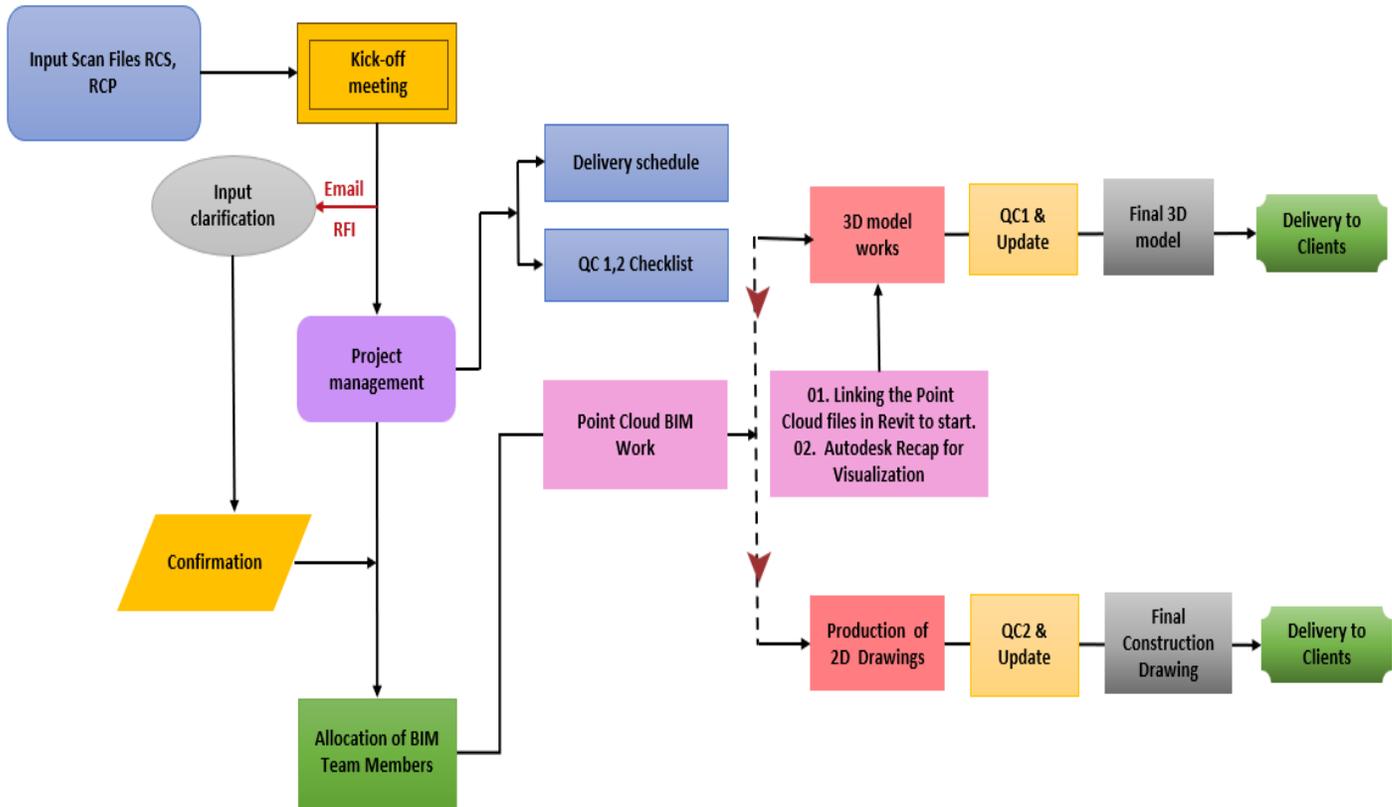
This data use very handy for as built records and controls.

Brand	Schweigen X
Product Type	Onboard Rangehood
Product Category	Undermount
Product Model	MSWX90
Product Code/SKU	MSWX90
EAN	9343415007112
Product Descriptor	Undermount Rangehood 900mm (Non-Silent) - MSWX90
Dimensions	W:900 x D:295 x H:325mm
Lights	2 x LED
Wattage	2
Filter Type	Stainless Steel - Baffle
Filter Qty	2
Finish	Stainless Steel
Motor Type	Single Internal Motor
Fan Speeds	5
Airflow (m3/h)	1110
dBa (Low) - 0.3m front	47.1
dBa (High) - 0.3m front	66.9
Inbuilt Motor Power	260W
Control	Touch & Remote
Auto Off	10 min
Warranty on Motor	-
Warranty on Canopy	-
Warranty on Unit	5 Years
Warranty on Filters	Lifetime
Warranty on GU10	-
Globes	

Input

Project stakeholders to organize approved electronic submittals during project renovation and extension through facility management.

Execution Process



QC-1



QC 1 – 3D Model Checklist – AEC POINT CLOUD

Date: 09-01-2025 Rev: R0

ARCHITECTURE
1 GRID PLACEMENT & DIMENSION
2 LEVEL CREATION
3 EXTERNAL WALL, INTERIOR WALL
4 DOOR, WINDOW
5 FOUNDATION (IF APPLICABLE)
6 FLOOR SLAB & FINISH
7 CEILING/ROOF
8 EXTERIOR TREATMENT (DIFF WALL PROFILE, SWEEP, REVEAL ETC.)
9 MILLWORK & FFE (IF APPLICABLE)
10 SANITARY FIXTURES (IF APPLICABLE)
11 SITE TOPOGRAPHY & RELEVANT FEATURES
12 WALL SECTIONS
13 WALL JUNCTION DETAILS
14 FOUNDATION DETAILS (IF APPLICABLE)
15 DOOR DETAIL (HEAD & JAMB DETAIL)
16 WINDOW DETAIL (HEAD, JAMB & SILL DETAIL)
17 CEILING DETAILS
18 ROOF DETAILS
19 EAVE DETAILS
20 MILLWORK & FFE DETAILS (IF APPLICABLE)
21 SANITARY FIXTURES (IF APPLICABLE)

STRUCTURAL
1 PILE
2 FOOTING
3 COLUMN
4 CONCRETE PIRE
5 PEDESTAL
6 PILASTER
7 BEAM
8 COLUMN CAP
9 DROP PANEL
10 WALL
11 LINTEL
12 CANOPY
13 PIT
14 INSERT PLATE
15 SLAB
16 FLOOR SLOPE
17 FLOOR DROP / FOLD
18 FLOOR DRAIN
19 FLOOR DECK
20 JOINT
21 TRENCH
22 PAD

MECHANICAL DUCTING
1 DUCT LINER
2 WRAPPING
3 ELBOWS FOR
4 SPIRAL DUCT
5 TAPS
6 TRANSITION
7 END CONNECTION
8 FLEX
9 DAMPER INFORMATION
10 CEILING ACCESS
11 VAV INFORMATION

MECHANICAL PIPING
1 MATERIAL
2 SLOPING
3 FITTINGS
4 INSULATION REQUIREMENT
5 HANGER SPECING

ELECTRICAL
1 ELECTRICAL FIXTURE
2 CABLE SIZE
3 DB/MCC/LCP NAME
4 PANELS
5 COMPONENTS
6 CABLE TRAY/TRUNKING
7 CONDUIT SIZES

QC-2



QC2 – D & D DRAWING CHECKLIST - AEC POINT CLOUD

Date: 09-01-2025 Rev: R0

Common Checklist
Title Block
1 Key Plan
2 Revision Check
3 Date
4 Scale
5 Title
6 Consulting Details
7 Client Details
8 Sheet Key Notes
B General Notes and Sheet Key Notes
1 General Notes
2 Sheet Key Notes
C Aesthetic Review / Grid Review
1 Drawing Presentation
2 Grid Check
D Project Specific
1 Sheets Referenced in Appendix A Present
2 Schedules Present
3 Finishes Present
4 Elevations to Finish Schedules Proper
5 Missing Key Drawing-Specific Information
6 Proper Drawing Reference Details
7 Relevant Annotation Information

Architecture
1 Walls, Windows & Fixture Tags
2 Walls, Windows & Fixture Annotations
3 Standard Dimension
4 Schedule Detailed Sheet
5 Legends & Notes
6 Elevations & Sections

Mechanical
1 Duct, Pipe, diffuser & Equipment's dimensions
2 Duct, Pipe, Equipment Elevation Tag (COP, BOP)
3 Equipment & Fixture Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Fire
1 Plumbing Pipe, Fitting & Equipment's dimensions
2 Pipe, Equipment Elevation Tag (COP, BOP)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Structural
1 Column, Beam, Slab, Walls
2 Concrete, steel, Foundations
3 Standard Dimension
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Plumbing
1 Plumbing Pipe, Fitting & Equipment's dimensions
2 Pipe, Equipment Elevation Tag (COP, BOP)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Electrical
1 Electrical Fixtures Dimensions
2 Conduit and Cable Tray Elevations Tag (BOT)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Drawing Notes



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Core Team

Irshad Ali Shaikh

CEO – Co-Founder

Mr. Irshad Ali is the co-owner & founder of DESIGN AND DRAWING SOLUTION. He is having more than 15 years of experience in Building services in construction Industry throughout AEC project execution process from Pre-construction, construction processes like MEP engineering consulting, Designing, installation and handover process of the project.

He has completed BE in Mechanical Engineering from Pune University with Post Graduation in Project Management (PGPPM) from NICMAR Pune, India. In his small journey, he has successfully delivered the more than hundred BIM/CAD project for his satisfied client with the best quality and unique team effort.

He has experienced in all kinds of projects i.e., starting from Residential township, Commercial IT buildings and parks, Malls, High rise building, Hotel, Hospital & Institutional building. Including building Infrastructure projects like metro, airports, globally i.e. USA, Australia, New Zealand & India.

Karishma Bibi **Sales Head**

She is the co-owner of DESIGN AND DRAWING SOLUTION and well experienced in offshore sales development initiatives. She is having a good knowledge of result-oriented sales development processes and customer retention. She is leading the complete sales team for B2B sales within the company and managing and monitoring the effectiveness of the entire sales cycle. She has implemented her interior design expertise to improve the technical expertise for client communication for offshore sales which helps her build a long-term relationship with new and existing clientele.

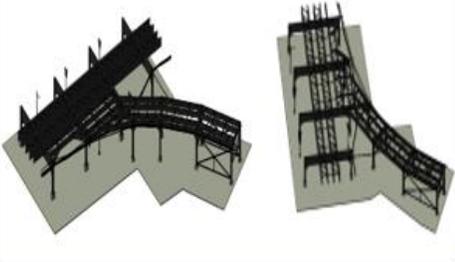
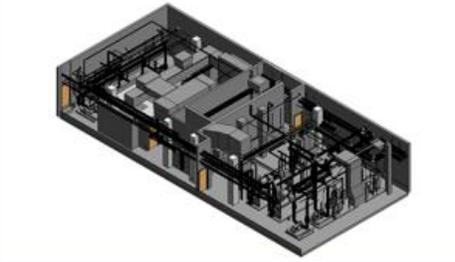
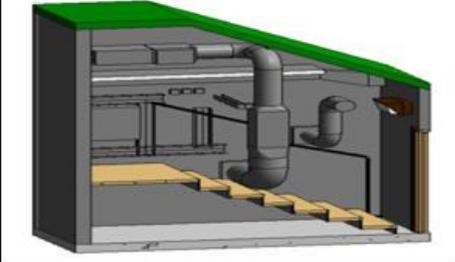
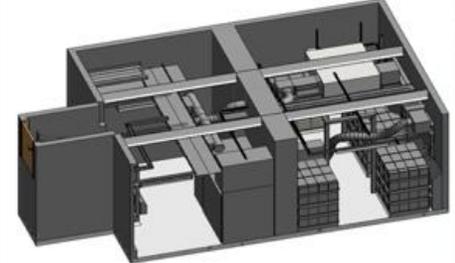
Rupam Mondal **Production Manager**

He holds a Mechanical Engineering diploma form WBSCTE, India and having more than 7 years' experience in Building construction Industry for MEP engineering, Drafting, of 3D , 4D , 5D & 6D BIM service .

He is having expertise in MEP engineering calculation, with all Autodesk BIM/CAD tools like Revit , Fabrication, AutoCAD MEP ,Navis works and AutoCAD and has complete knowledge of engineering and drafting services for all stages (Pre/post) of construction process .

He is working in DESIGNING AND DRAWING SOLUTION since from starting period of the company. With a short period of time , He has gained the managing process of the company , client communication, project management process and assisting with innovative (R & D) solution of new process , tools for new requirement of clients.

Project References

Survey (Scan to BIM)		
2142 - CDOT - Damen Green Line	Penthouse	Clive Room
Infrastructure	Plant Room	Plant Room
Chicago, IL, USA	Chicago, IL, USA	London, UK
		
UPS Room	Single family house 3860	
Plant Room	Residential	
London, UK	Atlanta, GA, USA	
		

Contact US



DESIGN AND DRAWING SOLUTION
ONE STOP BIM | CAD | MEP
ENGINEERING SOLUTIONS

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