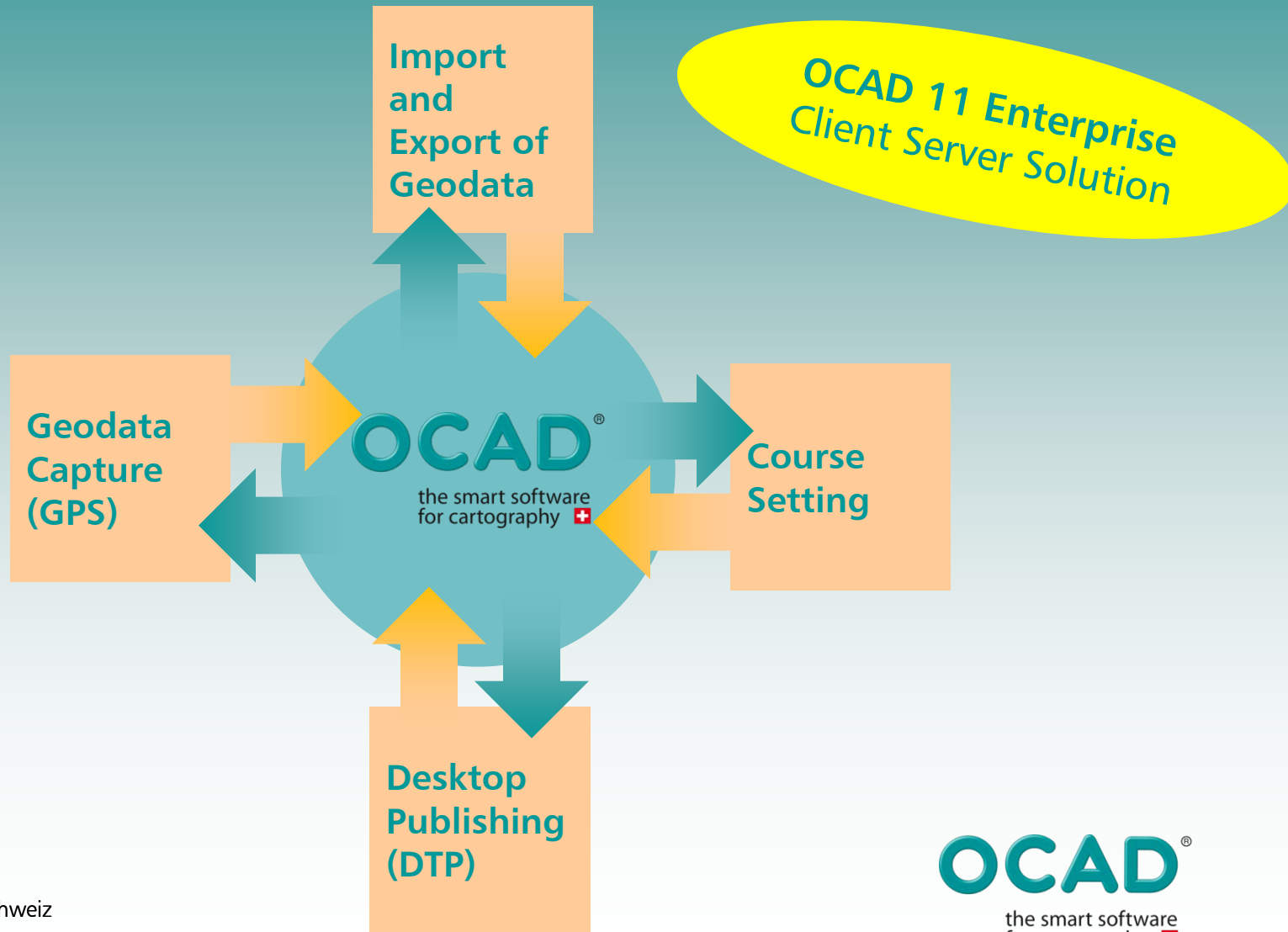


OCAD – more than just only a o-mapping software

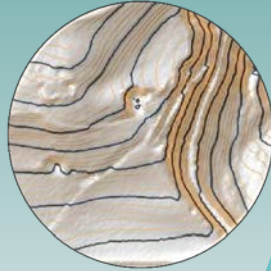
IOF ITC Open Meeting, WOC 2014, Lavarone

Positioning of OCAD.

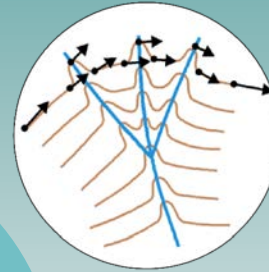


Specific Cartographic Tools.

DEM/LiDAR
Contours lines, **Profile**,
Relief Shading,
Vegetation
Height Maps

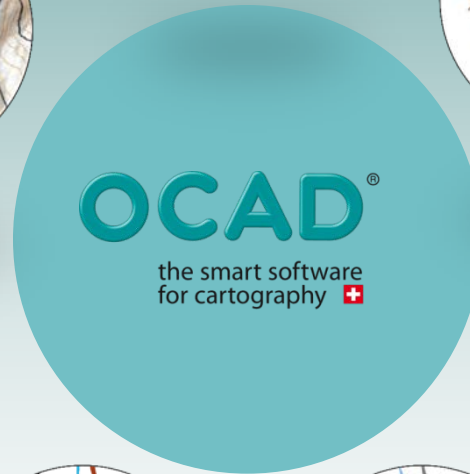


Powerful
Symbol Editor



9 Drawing
Modes, incl.
Bézier Curve

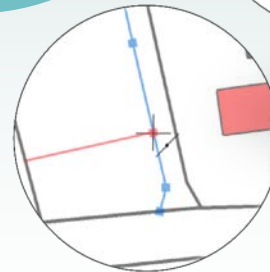
Interpolate,
Smooth
& Reshape



Clear Inter-sections
& Dashed Lines



Rubber-Sheeting &
Map Transformation



Snapping, Line
Tracing & Spacing

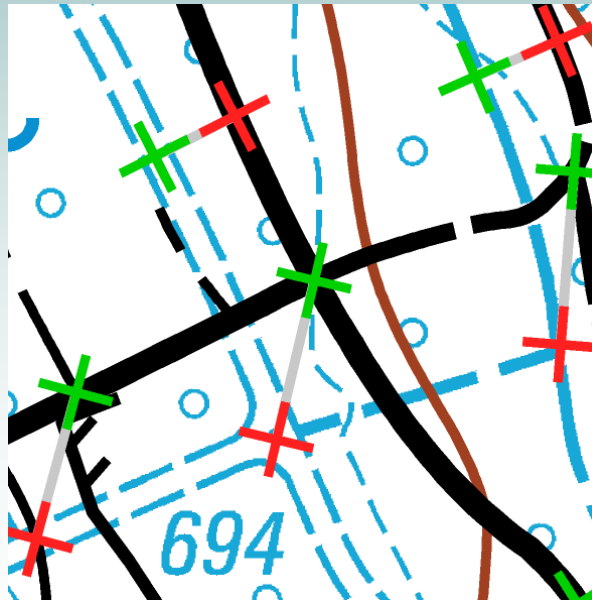
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Rubber Sheeting.

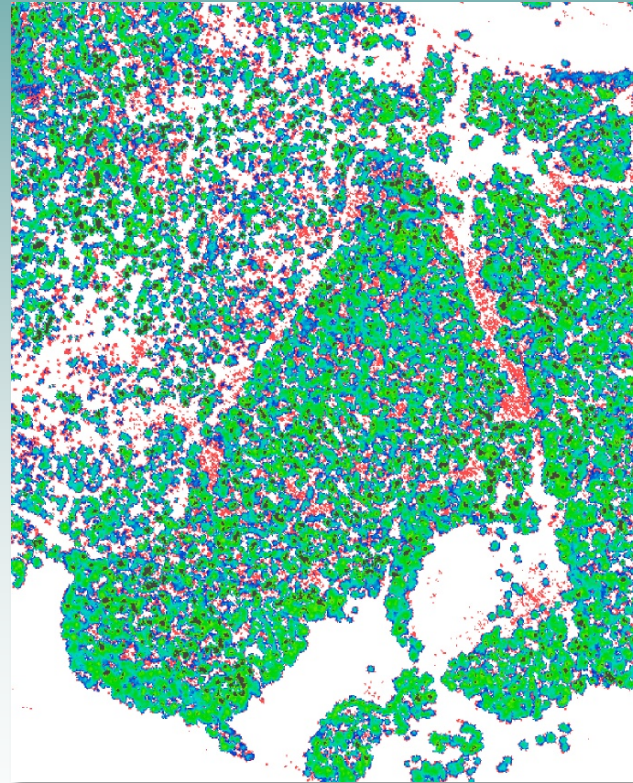
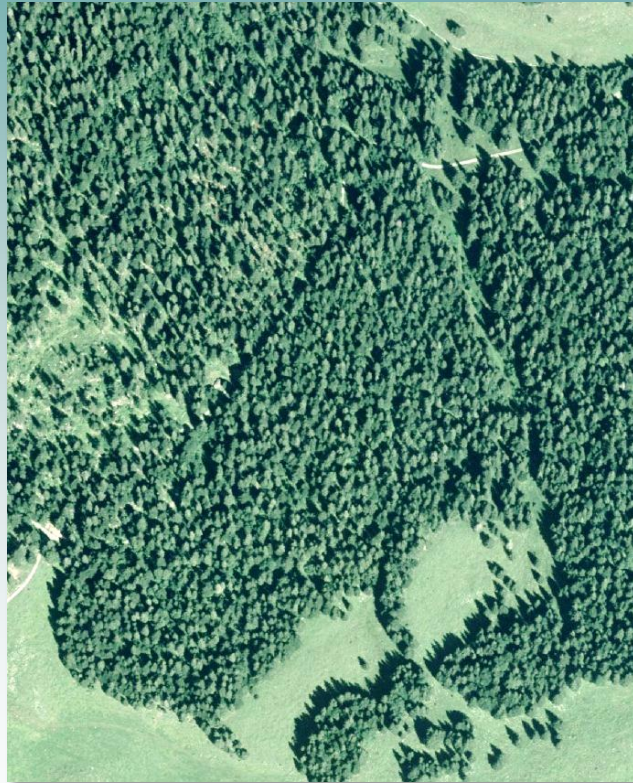
Rubber Sheeting:

- Dissolving distortion from old (vector-) maps with the aid of georeferenced background maps
- Option to exclude protected objects or layout objects



Vegetation Height Maps.

Ortho photos vs. Vegetation Heights Maps (DSM minus DTM)



Geodata Capture.



Laser Rangefinder.

Pro

Laser range finder drawing mode for
TruPulse 360B (Bluetooth connection)

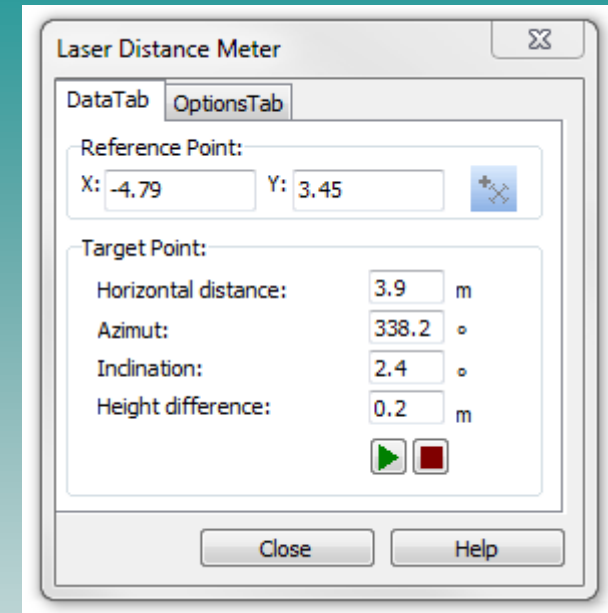
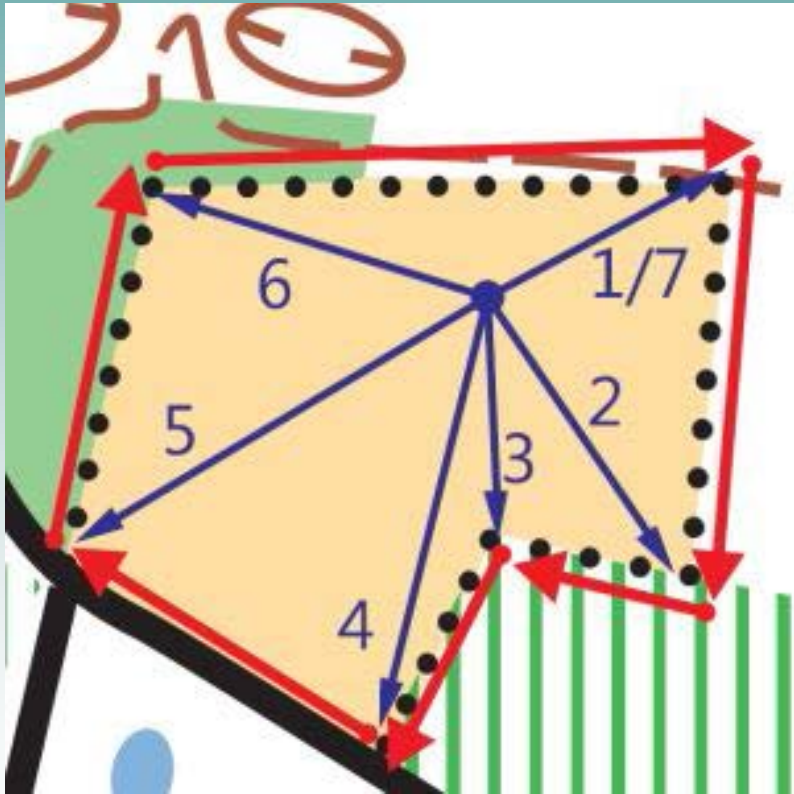


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Pro Laser Rangefinder.

How does it work?

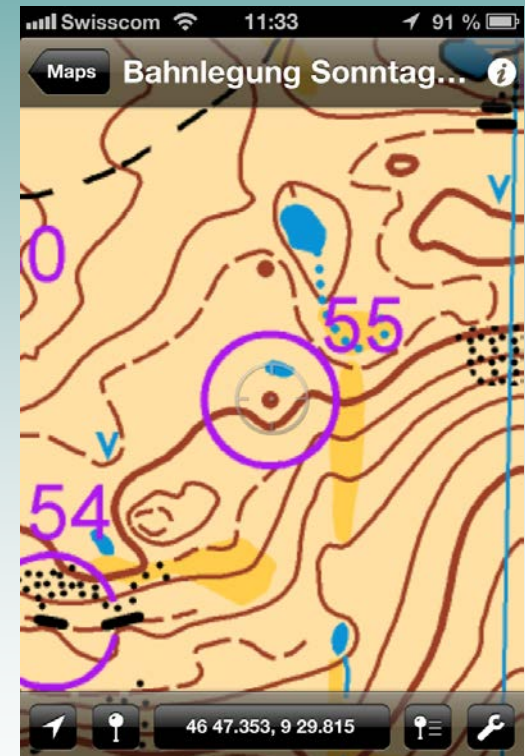


Mobile: Maps on Smart Phones.

Free Apps (for iOS and Android)

- **KML Map** (with simple drawing functions)
- **Avenza PDF Maps**
- **GeoTIFF for GARMIN**

1. Export georeferenced raster tiff in OCAD
2. Upload on iPhone/iPad via DropBox or iTunes
3. Current GPS position is shown on the map

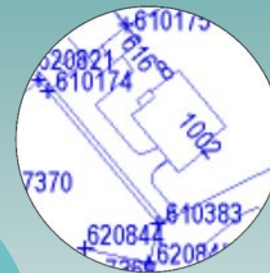


Import and Export Geodata.

Georeferenced
Raster Maps



Import
and
Export of
Geodata



SHP/DXF/
GML/SOSI (NOR)

WMS-Server
Connection

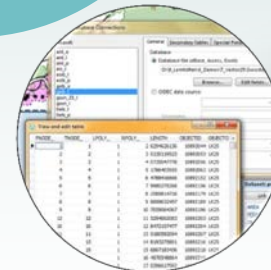


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OpenStreetMap

SQL-Query
Builder



Database Manger

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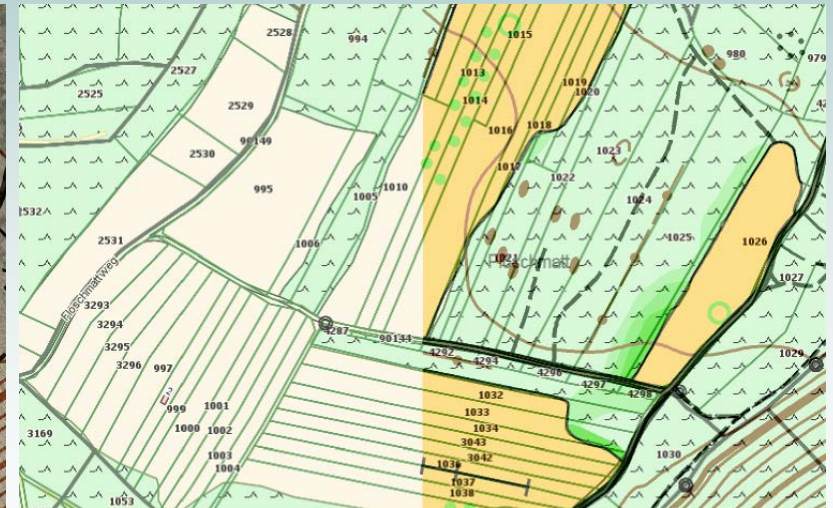
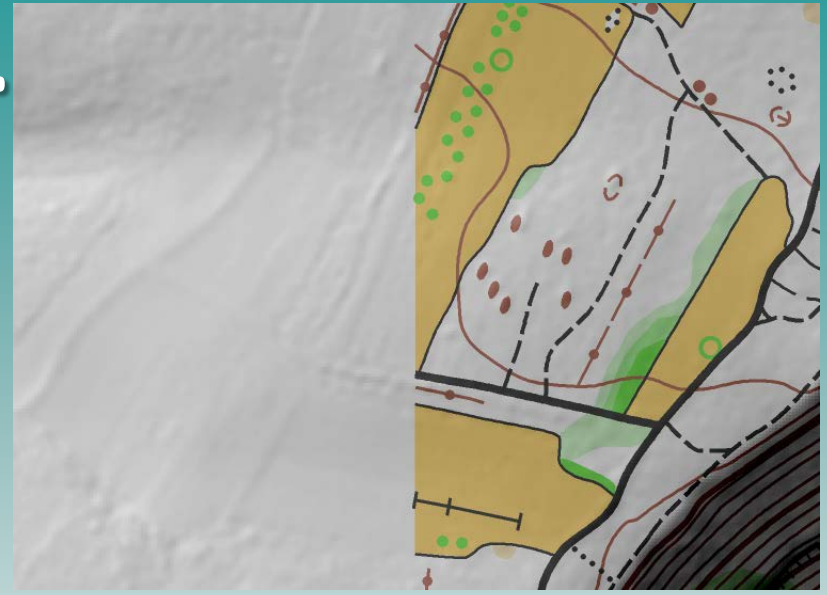
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Web Maps Service.

Pro

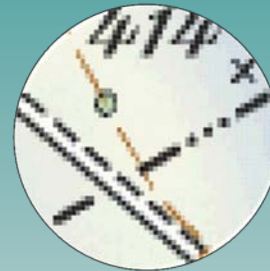
Background Map

- WMS - Web Map Service
- Support PNG format



Desktop-Publishing (DTP).

Hybrid PDF Export
(Vector/Raster)



Export Raster Maps
(BMP, TIF, JPG, GIF, PNG)

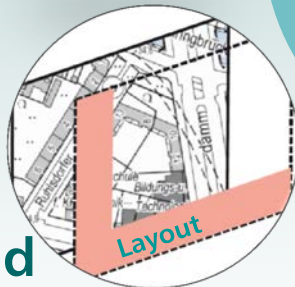
Export
CMYK or
Spotcolors
PDF



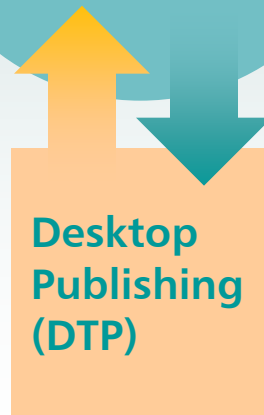
Export Vector
Maps
(AI, SVG, EPS)



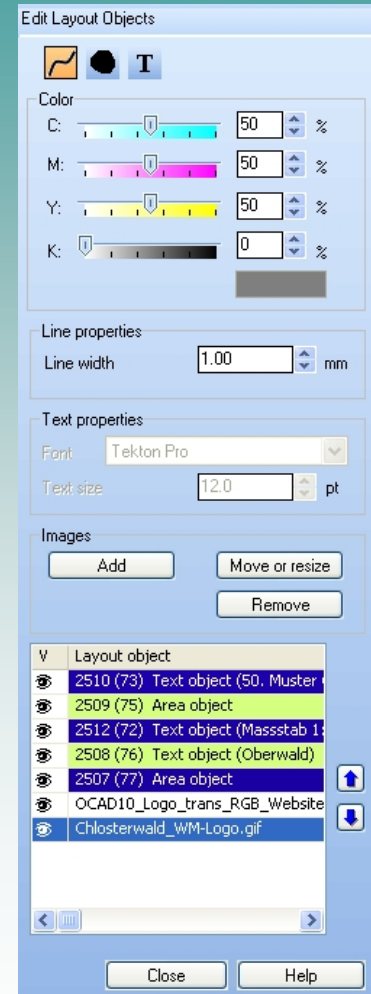
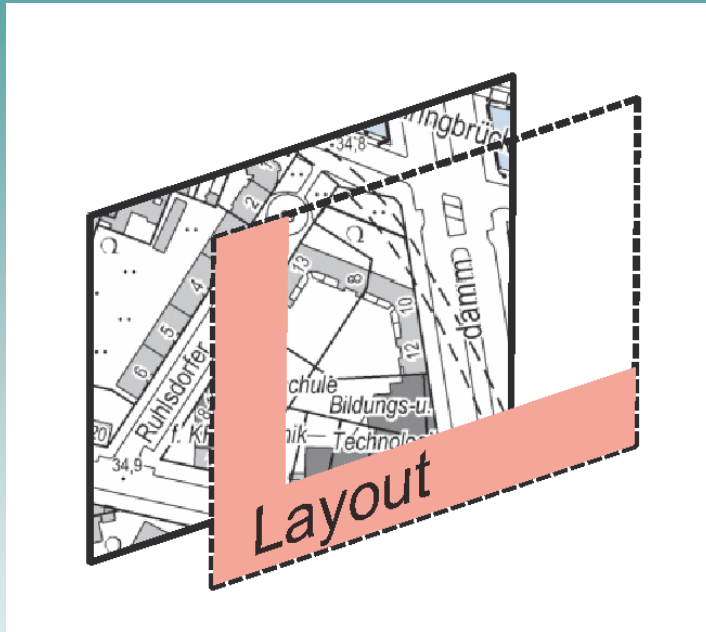
Map Layout:
Logos, Legend
& Images



Import of
Freehand, AI
CorelDraw by the
aid of PDF

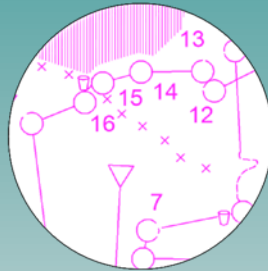


Layout Layer.



Course Setting.

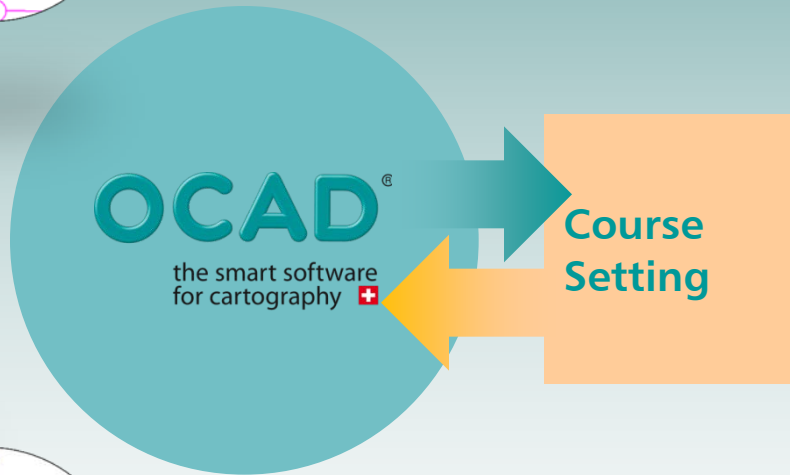
Course Setting



Event Statistic



Export and
Import IOF Data
Standard 3.0
(XML)

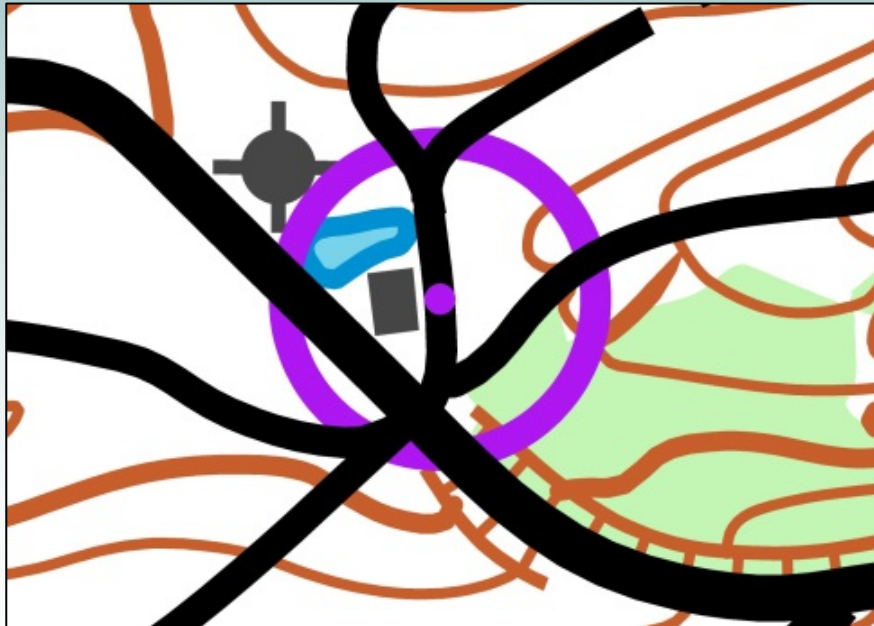


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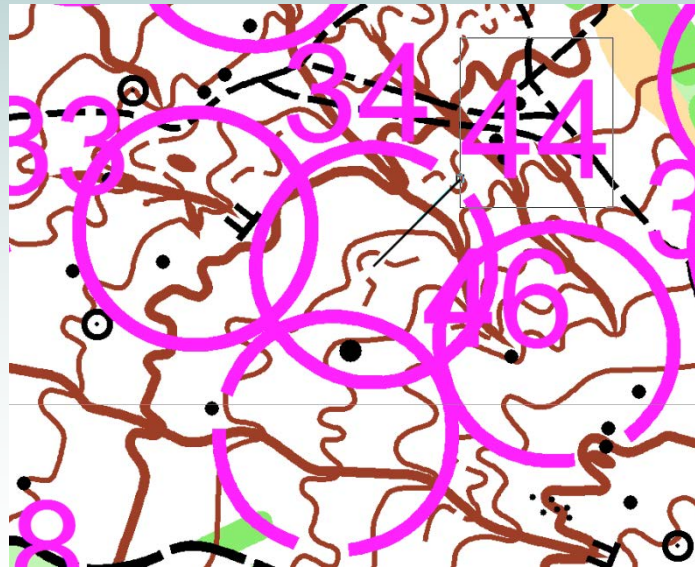
Printing: Import ocd File

- Import of ocd file in the course setting project
- Option to import colors at the top or bottom of the color table
- MTBO and Ski O: Tracks are over the control circle



Course Setting: Edit Courses

- Show thin connection line between control circle and control number while moving control number in preview
- Insert and delete course object to a list of courses
- Move control number for all courses that use it
- Edit connection line for all courses that use it



Course Setting: Event Statistic

- Courses dialog: Show course length and number of controls
- Highlight unused course objects in course statistics dialog
- Leg statistics added (number of courses / runners per leg)
- Control/Course diagram
- Detect identical courses and courses without start or finish

Course Statistic and Event Statistic

Course statistics

Code	Number of course	Runners
31	2	140
32	3	165
33	5	190
34	4	145
35	5	190
36	3	115
37	6	235
38	4	195
39	4	180
40	3	185
41	2	60
42	2	145
43	6	200
44	3	170
45	3	100
46	6	235
47	7	300
48	4	245
49	5	190
50	3	115
51	3	140
52	4	125
53	6	200
54	5	205
55	4	140
56	5	205
57	4	250
58	4	175

Leg statistics

Code	Number of cours
S1-S11	1
S1-S12	3
S1-S13	3
S1-S14	3
S1-S15	1
S1-S16	3
S1-S17	3
S1-S18	3
S1-S19	4
S1-S20	3
S1-S21	1
S1-S22	3
S1-S23	3
S1-S24	2
S1-S25	2
S1-S26	1
S1-S27	1
S1-S28	1
S1-S29	1
S1-S30	1
S1-S31	1
S1-S32	1
S1-S33	1
S1-S34	1
S1-S35	1
S1-S36	1
S1-S37	1
S1-S38	1
S1-S39	1
S1-S40	1
S1-S41	1
S1-S42	1
S1-S43	1
S1-S44	1
S1-S45	1
S1-S46	1
S1-S47	1
S1-S48	1
S1-S49	1
S1-S50	1
S1-S51	1
S1-S52	1
S1-S53	1
S1-S54	1
S1-S55	1
S1-S56	1
S1-S57	1
S1-S58	1
S1-S59	1
S1-S60	1
S1-S61	1
S1-S62	1
S1-S63	1
S1-S64	1
S1-S65	1
S1-S66	1
S1-S67	1
S1-S68	1
S1-S69	1
S1-S70	1
S1-S71	1
S1-S72	1
S1-S73	1
S1-S74	1
S1-S75	1
S1-S76	1
S1-S77	1
S1-S78	1
S1-S79	1
S1-S80	1
S1-S81	1
S1-S82	1
S1-S83	1
S1-S84	1
S1-S85	1
S1-S86	1
S1-S87	1
S1-S88	1
S1-S89	1
S1-S90	1
S1-S91	1
S1-S92	1
S1-S93	1
S1-S94	1
S1-S95	1
S1-S96	1
S1-S97	1
S1-S98	1
S1-S99	1
S1-S100	1

Event statistics

Number of controls: 119
Number of courses: 36
Number of classes: 36

Shortest distances between controls:

- 37m: 123 -> 127 (Mulde -> Trockenrinne)
- 40m: 131 -> 134 (Stein -> Trockenrinne)
- 40m: 52 -> 94 (Friedwand -> Mulde)
- 42m: 89 -> 90 (Stein -> Stein)
- 43m: 32 -> 40 (Trockenrinne -> Stein)
- 48m: 122 -> 127 (Pfad -> Trockenrinne)
- 52m: 110 -> 111 (Trockenrinne -> Mulde)
- 54m: 137 -> 138 (Trockenrinne -> Stein)

Legs between 2 controls in opposite direction:

- Course D12 (52 -> 127) <=> Course OK (127 -> 52)
- Course H14 (53 -> 127) <=> Course OK (127 -> 53)
- Course D18/20 (126 -> 120) <=> Course D50/D53 (120 -> 126)
- Course D18/20 (126 -> 120) <=> Course D60 (120 -> 126)
- Course DE (138 -> 120) <=> Course H93 (120 -> 138)
- Course HB (77 -> 53) <=> Course H73/80 (53 -> 77)
- Course HB (53 -> 120) <=> Course OL (126 -> 53)
- Course D60 (43 -> 120) <=> Course OM (120 -> 43)
- Course D65/70 (120 -> 127) <=> Course OM (127 -> 120)

Identical courses:

No identical courses

Courses without start or finish:

No courses without start or finish

Control/Course diagram

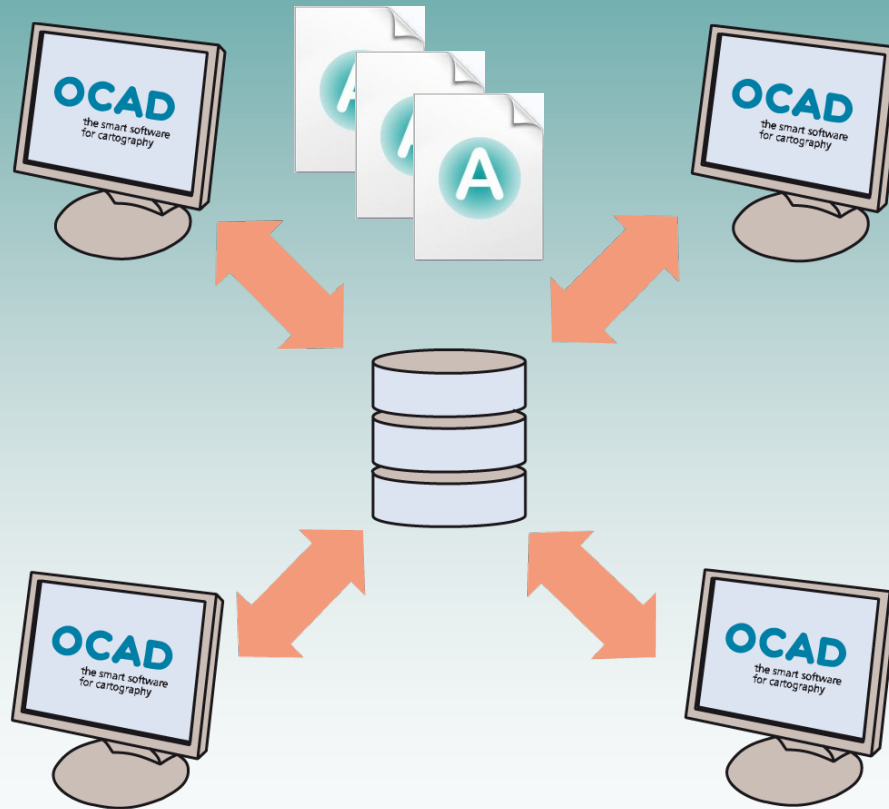
	DH10	D12	H12	D14	H14	D16	H16	D18/20	H18/20	DE	HE	DAL	HAL
S1	S	S	S	S	S	S	S	S	S	S	S	S	S
S31	-	-	-	-	-	-	-	-	-	-	-	-	-
S32	-	-	-	-	-	-	-	-	-	-	-	-	-
S33	-	-	-	-	-	-	-	1	1	-	-	-	-
S34	-	-	-	-	-	-	-	-	-	6	-	-	-
S35	-	-	-	-	-	-	-	-	-	7	-	-	-
S36	-	-	-	-	-	2	-	-	-	-	-	-	-
S37	-	-	-	-	-	-	-	-	-	-	-	-	-

Course Setting: Export

- New IOF XML Version 3.0 exchange format supported
- Export course maps: Export multiple courses to one course map file (only normal courses)

OCAD Enterprise.

Client server architecture



OCAD Enterprise.

- Familiar user interface
- One database – one project status
- Simultaneous users for the same project
- Project based rights-management
- Offline synchronisation / offline work
- Project inheritance – base projects

OCAD Enterprise.



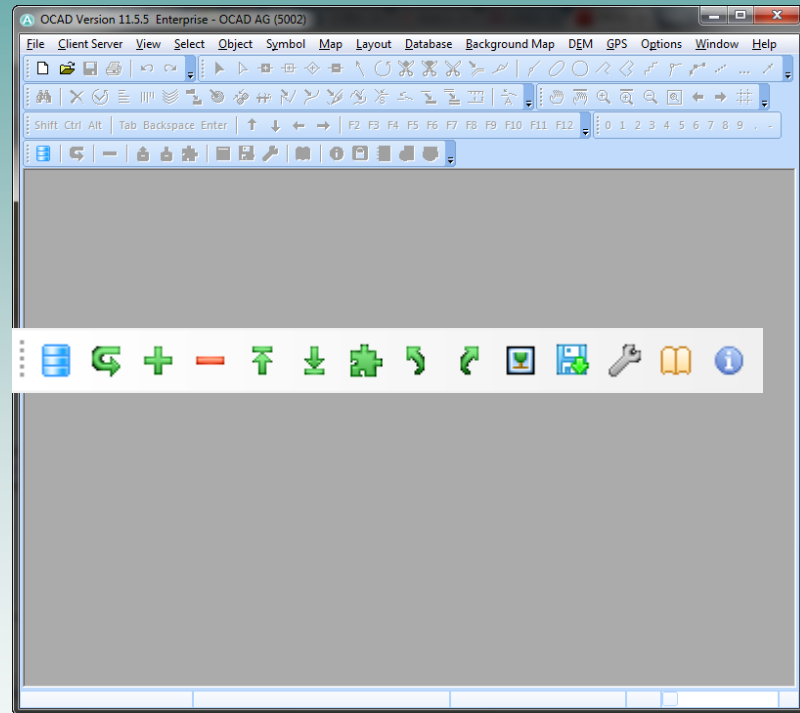
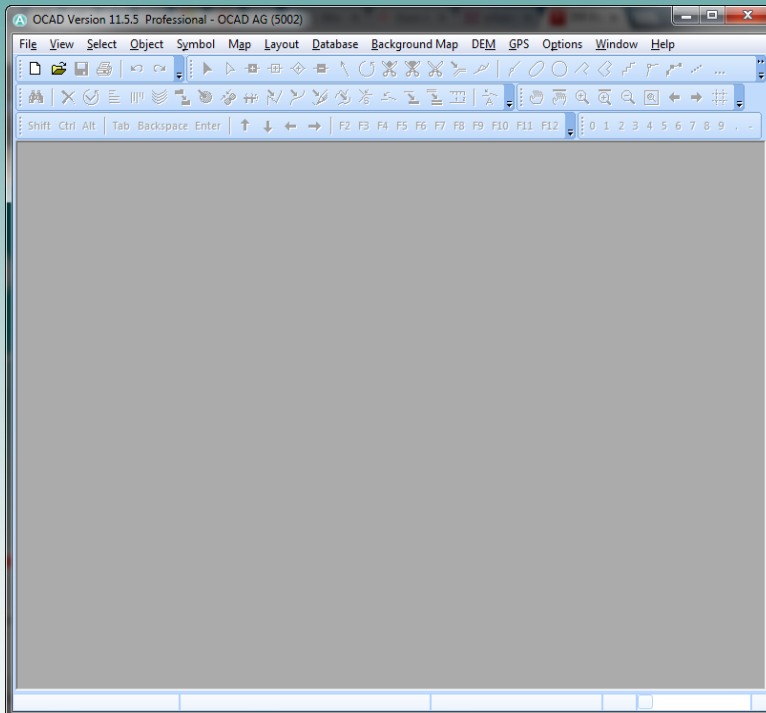
- Connect/Disconnect Postgre/GIS
- Import Map
- Check Out Selected Objects
- Check in Selected Objects
- Show Checked Out Objects
- Generate Map Preview

OCAD Enterprise.

familiar user interface
one database – one project status
simultaneous users for the same project
project based rights-management
offline synchronisation / offline work
project inheritance – base projects

OCAD Enterprise.

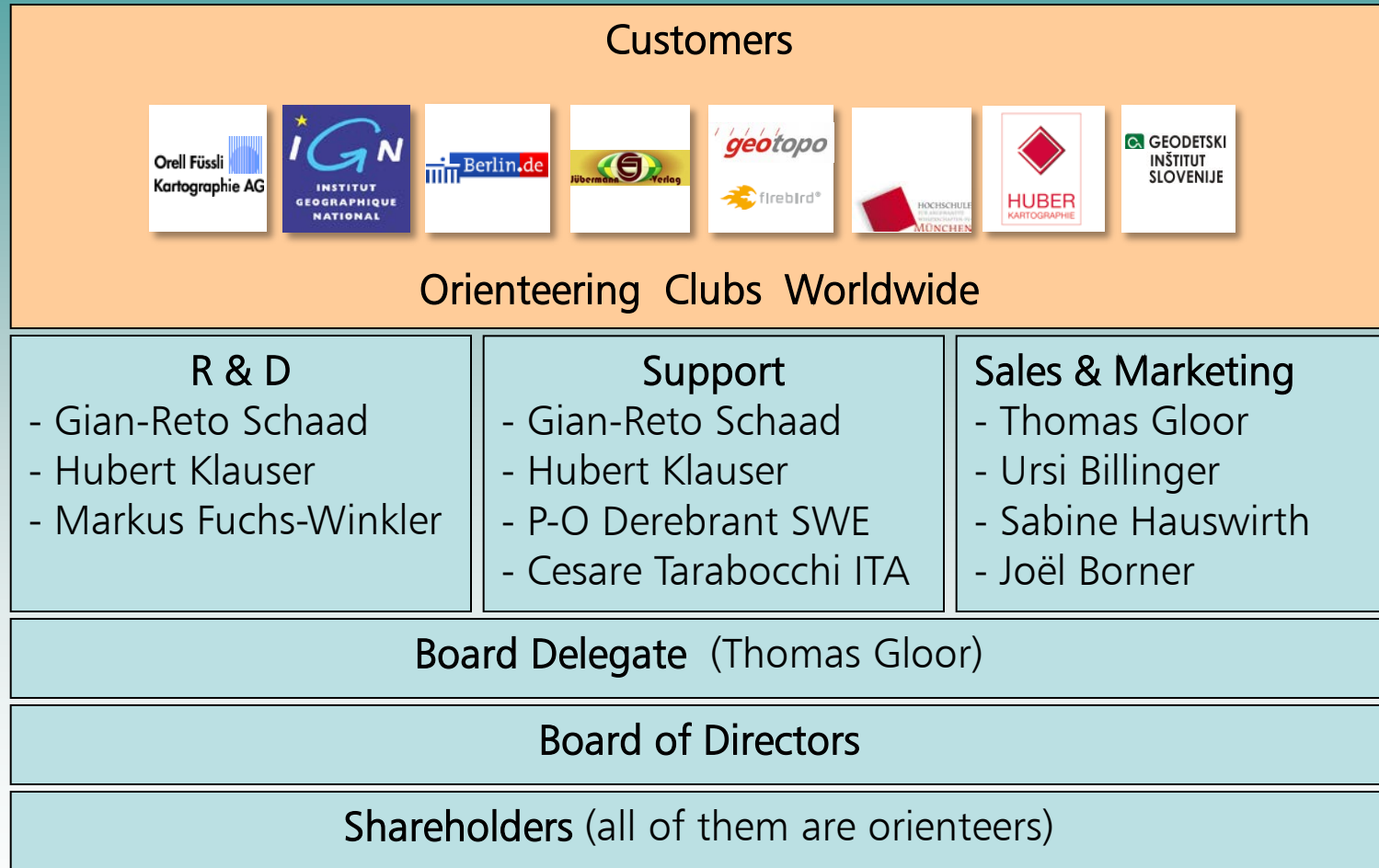
Client server architecture



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- OCAD Wiki (offline > 400 pages) [PDF](#)
- OCAD Learn videos (online) ([YouTube](#))
- OCAD Tutorial ([online](#))
- OCAD Blog (online) www.ocad.com/blog/

Support

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- Phone

From Orienteers to Orienteers ...



... and other cartographers

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OCAD 11 in 6 Editionen

OCAD 11 CS (Course Setting)

OCAD 11 Viewer

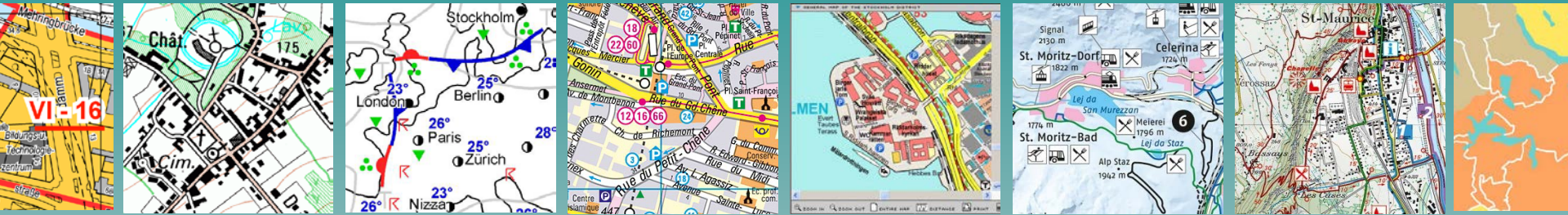
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OCAD 11 Standard

OCAD 11 Professional (Aca/Stud)

OCAD 11 Enterprise (SCA)

OCAD 11 Trial Version



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Thank you for your attention