DCP100

Ship CAD/CAM system

📄 DXF file

📄 Design values

DCP100 Modeller

–Typically in office environment

–Work preparation

–Model of the design structure for measurements

–Measurement preparations

ADF file
(DCP05 format)

DCP05 Measurement

📄 PRD file
(DCP100 format)

DCP100 Analyzer

–Typically at production site

–Measurement preparations

–Actual data

–Model of the actual-design structure

–Dimensional analyses

–Dimensional control reports

ADF file
(DCP05 format)

dx = 0.2 mm
dy = 0.3 mm
dz = 0.5 mm

📄 PRA file

📄 PRA file
(DCP100 format)

DCP100 Simulator

–Typically at production site

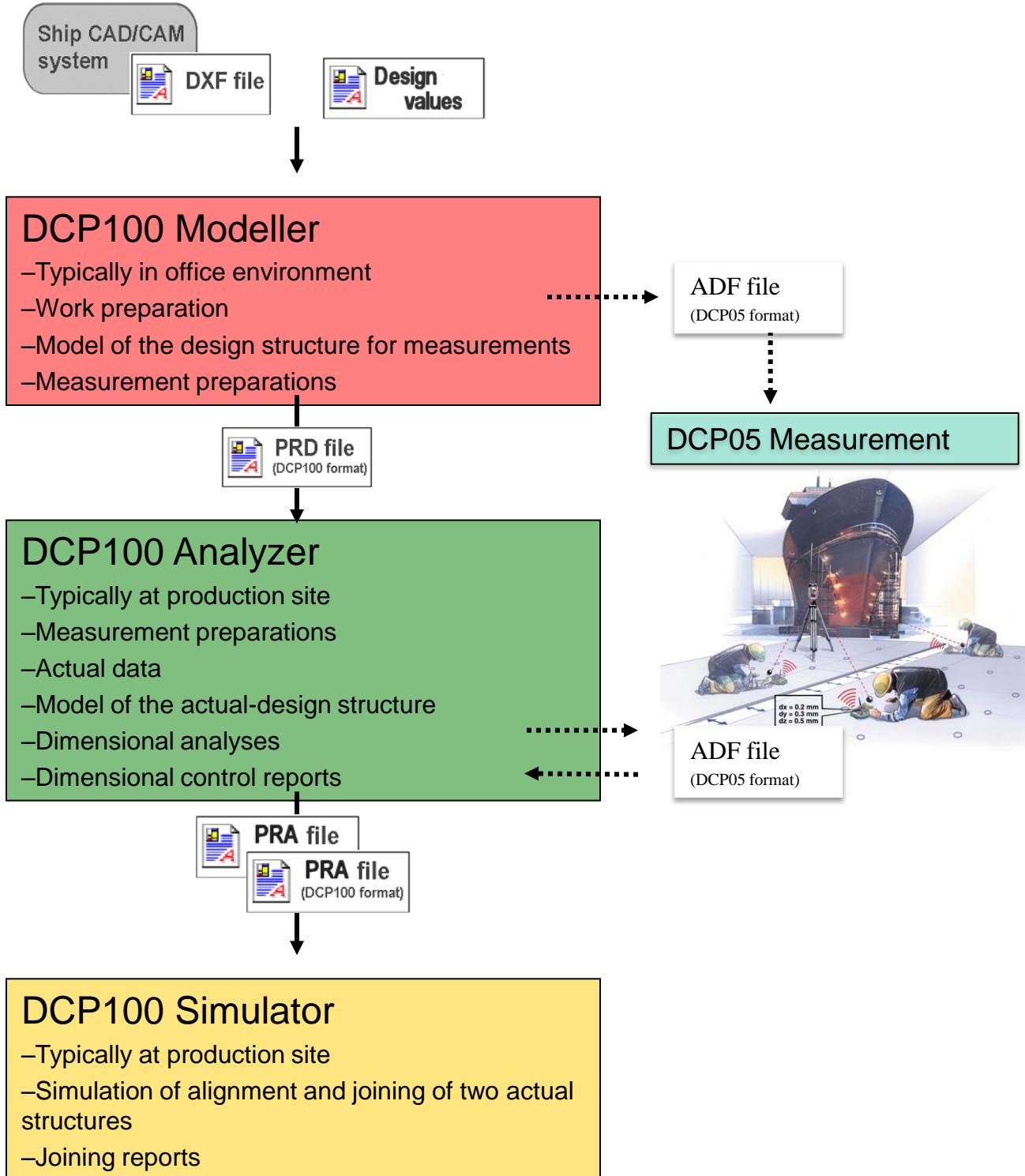–Simulation of alignment and joining of two actual structures
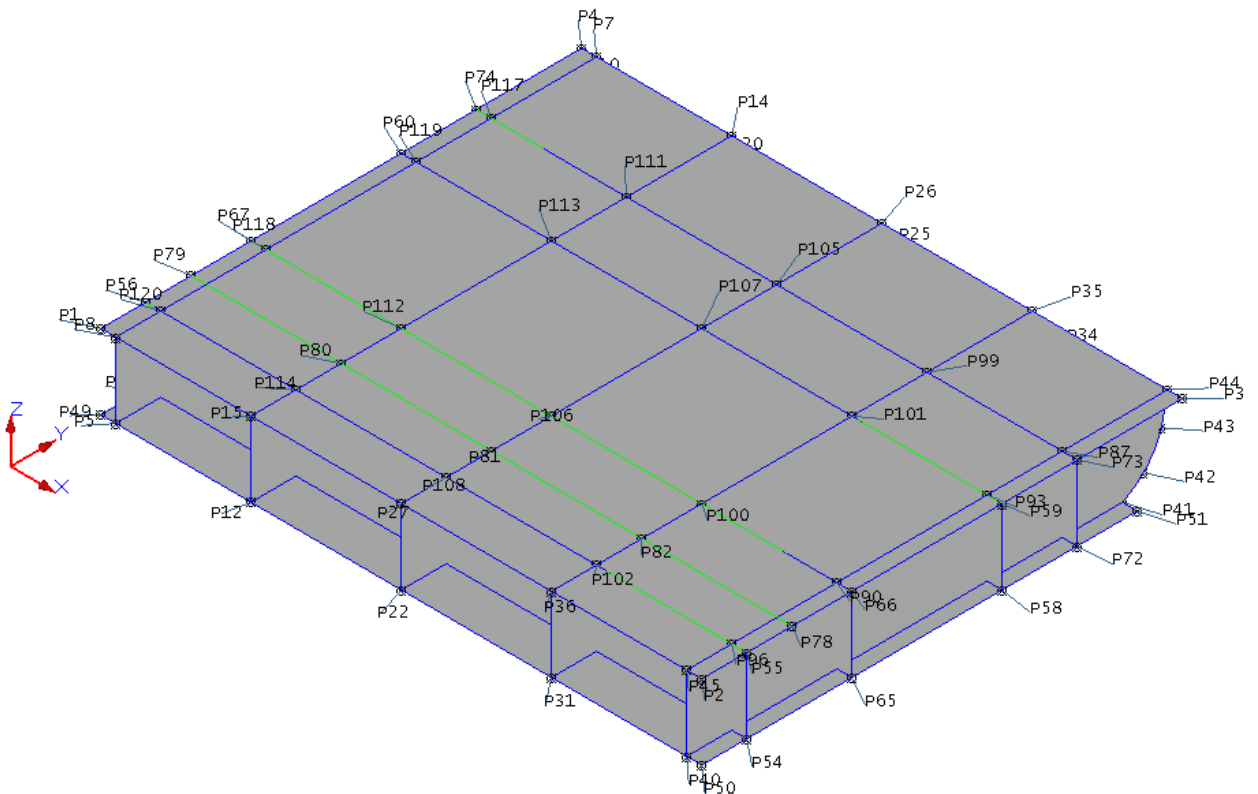
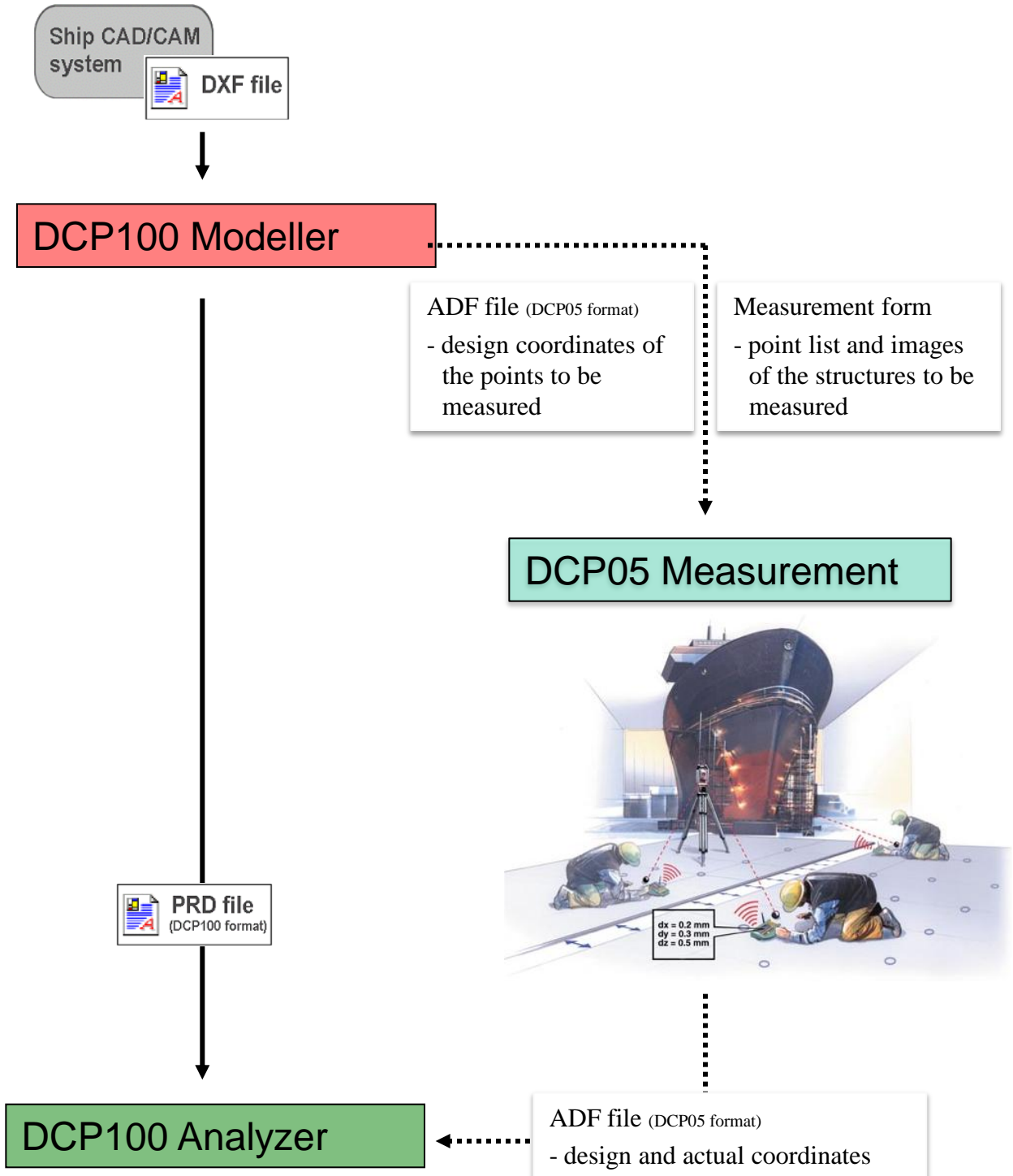–Joining reports

Ship CAD/CAM system — DXF file

DCP100 Modeller

- Importation of a dxf-file: automatic generation of the points to be measured
- User can select the amount of details to be imported
- Possibility to manually edit the model
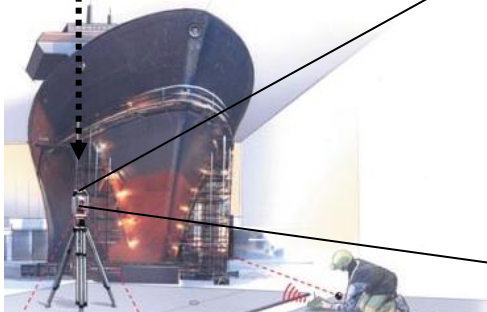- Creation of measurement form and .adf file for instrument

DCP100

Ship CAD/CAM system
DXF file

DCP100 Modeller

ADF file (DCP05 format)
- design coordinates of the points to be measured

Measurement form
- point list and images of the structures to be measured

DCP05 Measurement

dx = 0.2 mm
dy = 0.3 mm
dz = 0.5 mm

PRD file
(DCP100 format)

DCP100 Analyzer

ADF file (DCP05 format)
- design and actual coordinates

DCP100

ADF file (DCP05 format)
- design coordinates of
  the points to be
  measured

Measurement form
- point list and images
  of the structures to be
  measured

```
DCP05\3DMEAS              14:03
3Dfile(3DF)    :FILE1     info
Point ID(PID):P1          area
     actual       design       dev
x:  -1530.2      -1530.0      -0.2
y:  12035.4      12035.0       0.4
z:   2580.0       2580.0       0.0
ALL    DIST   POINT AIM    PID    EDIT

HELP   INIT   SPECI TOOL   CALC   I<>II

  F1      F2      F3      F4      F5      F6
```
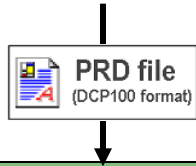
DCP05 Measurement
- actual-design values and deviations can be seen on instrument
  display in real time
- instrument can also be controlled by using the design values
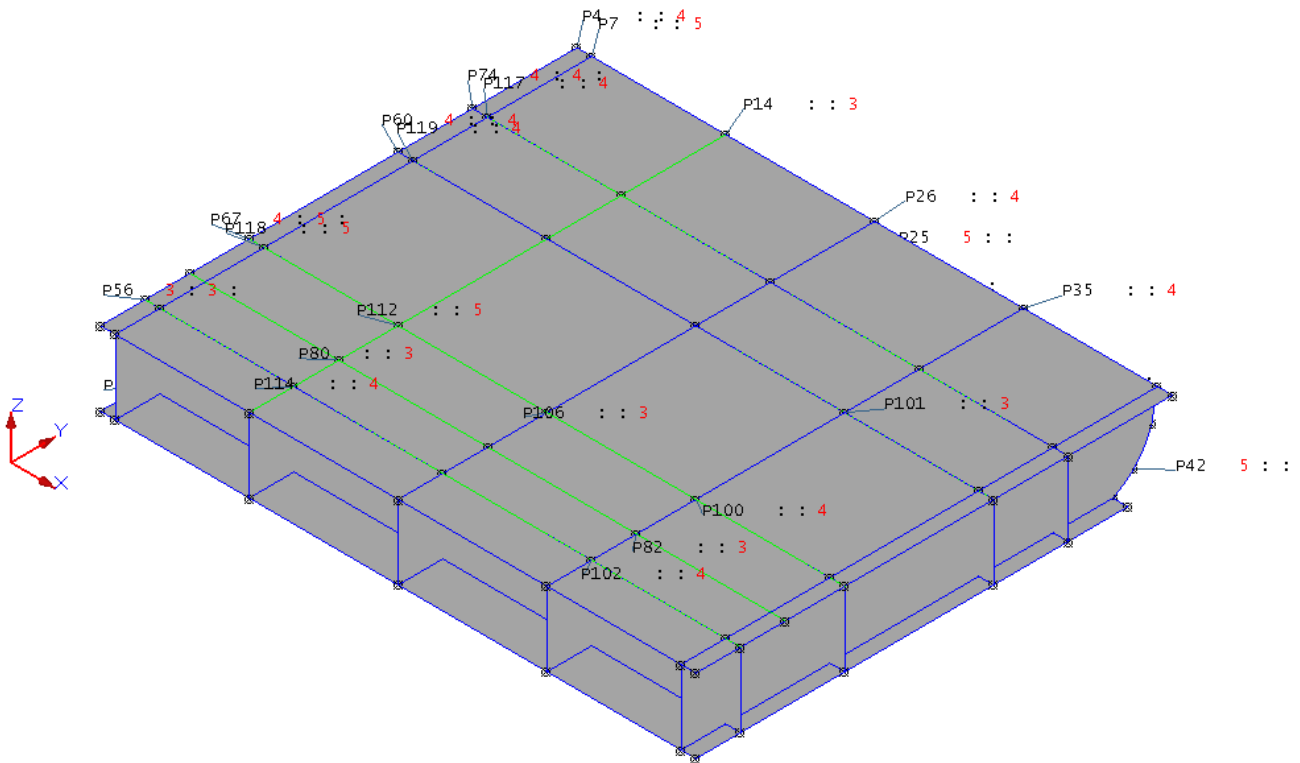
ADF file (DCP05 format)
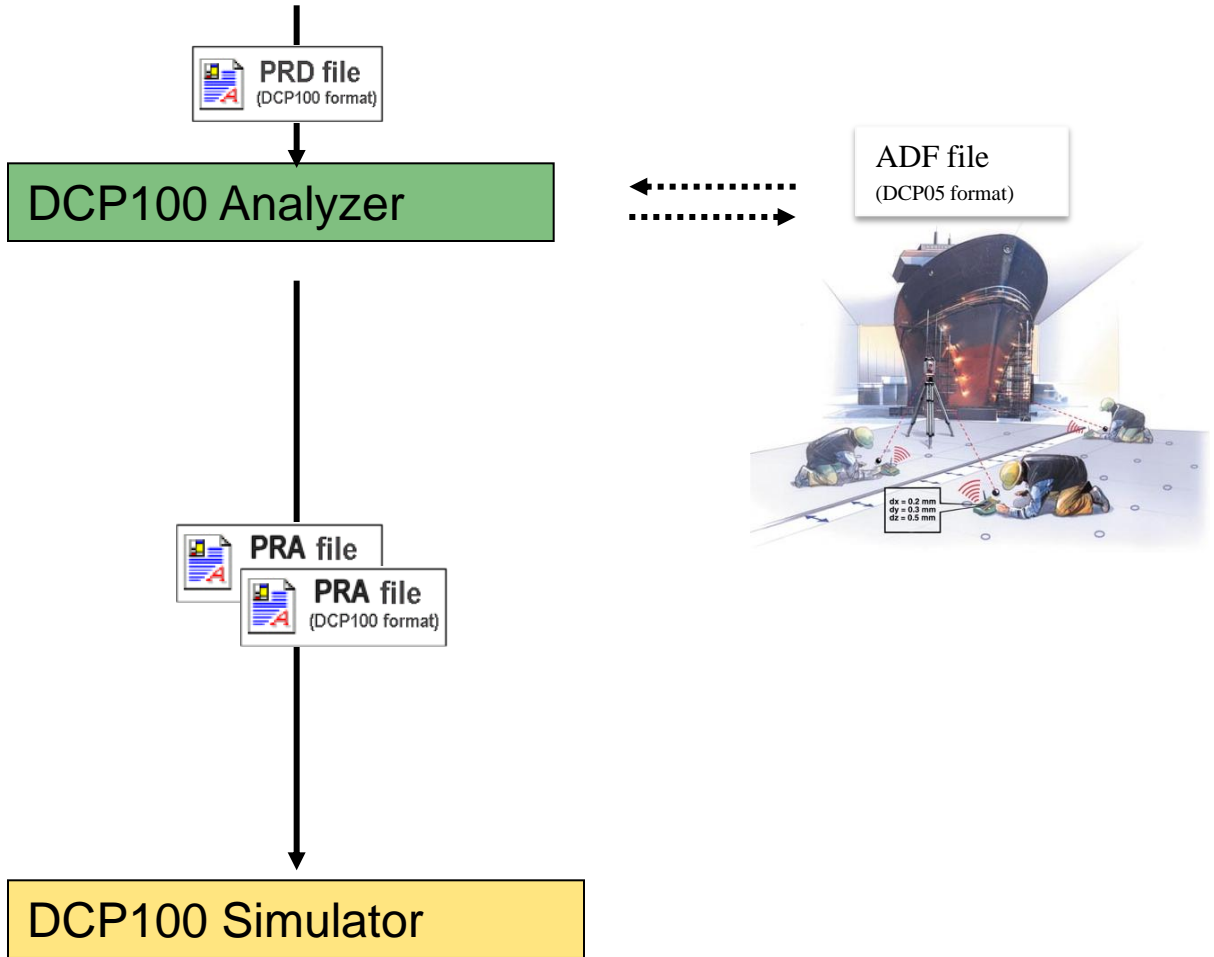- design and actual coordinates

DCP100

PRD file
(DCP100 format)

DCP100 Analyzer

- Design values are imported from .prd file
- Actual values are imported from .adf file
- Actual-design analysis
- Alignment functionalities
- Dimensional control reports with few mouse clicks
    - user can create and use his own report templates
- New measurements can be prepared
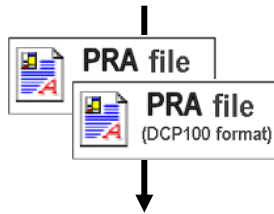- Design and actual models are saved into a .pra file

ADF file
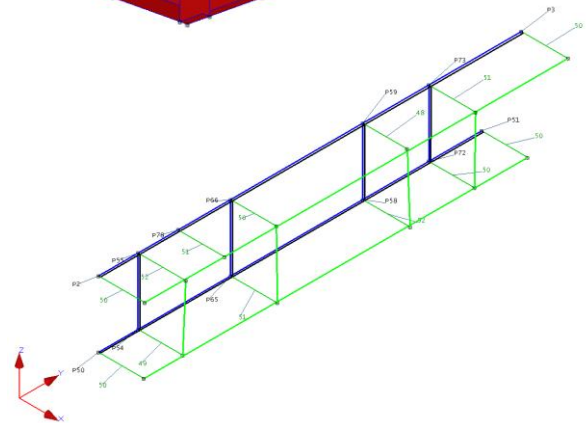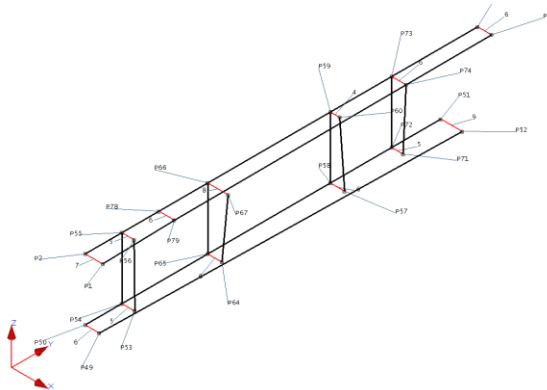(DCP05 format)

DCP100

PRD file
(DCP100 format)

DCP100 Analyzer

ADF file
(DCP05 format)

PRA file

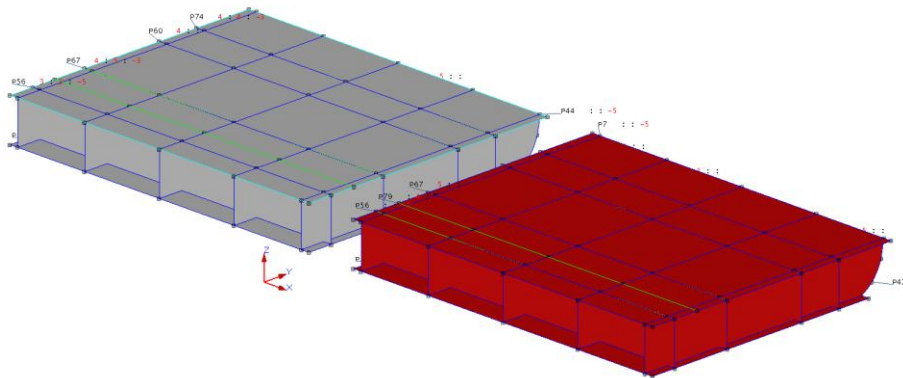PRA file
(DCP100 format)

DCP100 Simulator

Simulator

DCP100

DCP100 Simulator

– Design and actual models are imported from .pra files
– Simulation of alignment and joining of two actual structures
– Weld gap and Cut map displays to evaluate the success of the unit merging
– Joining reports with few mouse clicks
   –user can create and use his own report template

	Points		Design coordinates		Cut away	Weld gap
No.	Pid	X	Y	Z		
1	P2	40000.0	3.0	2500.0	50.3	7.1
2	P3	40000.0	16003.0	2500.0	50.2	5.7
3	P50	40000.0	3.0	0.0	49.9	5.8
4	P51	40000.0	14503.0	0.0	50.0	8.7

A.M.S. Ltd