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OMEGA SOFTWARE

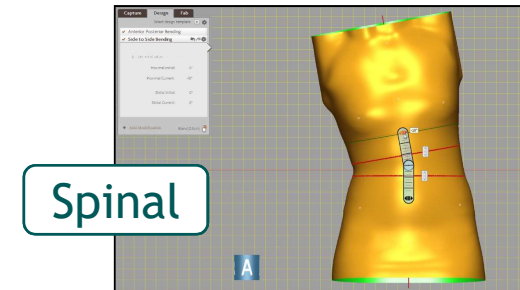
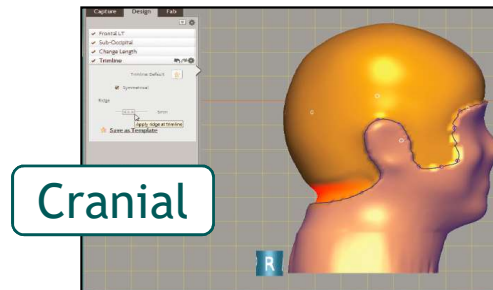
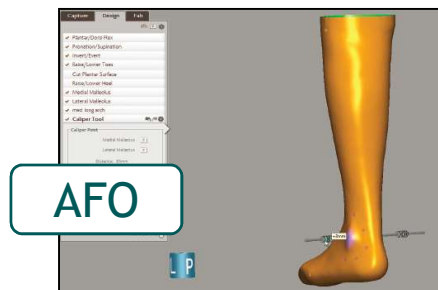
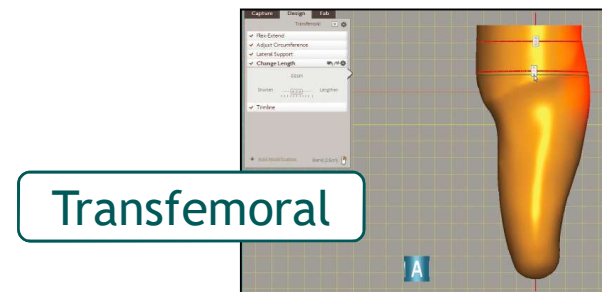
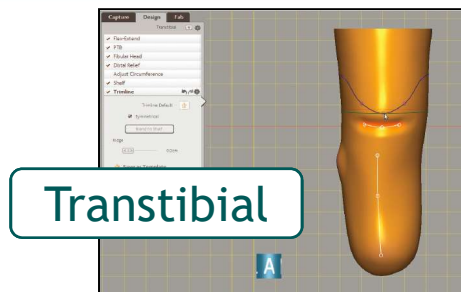




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CLINICAL APPLICATIONS



Two additional options

- **Other – Closed:** straight shape that is open at proximal end and closed at distal end
- **Other – Open:** straight shape that is open at proximal and distal ends

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CAD/CAM BENEFITS



Business



Clinical

- Both are integral to the success of using CAD in daily routines
- *Benefits - a tool for improving patient care and experience for better outcomes and a competitive edge*

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CAD/CAM BENEFITS



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CAD/CAM BENEFITS

- Competitive edge and professional reputation
- Digital archiving
- Reduces time to handle requests for documentation
- Digital files allow access to data - before and after measurements to demonstrate change



CAD/CAM BENEFITS

- Clean environment
- Portable
- Reduced modification times
- Modifications streamlined
- Utilization of central fabrication services
- Reduced time and expense on shipping
- Patient visits require less time



CAD/CAM BENEFITS

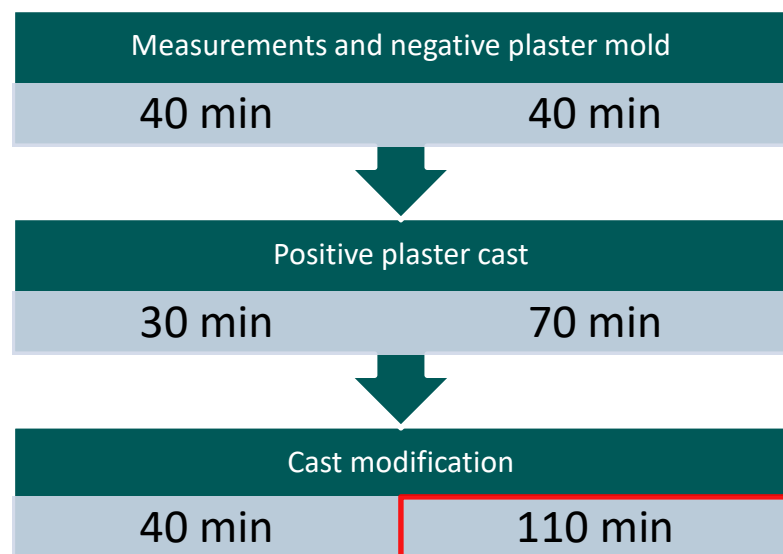
- Revisions are more easily accommodated
- Clinicians have more time for patients
- Patients get devices they need sooner
- Reduces element of human error
- Reduced material costs
- Consistent quality of products



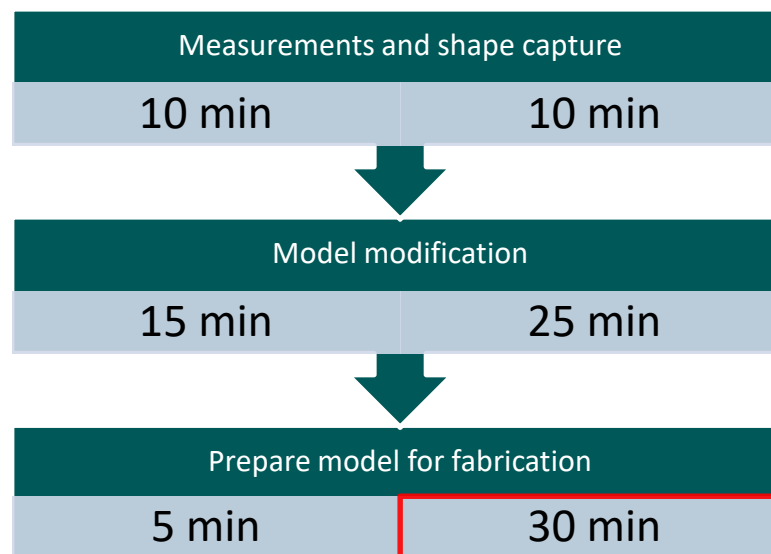
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CAD/CAM BENEFITS

Traditional shape capture and modification

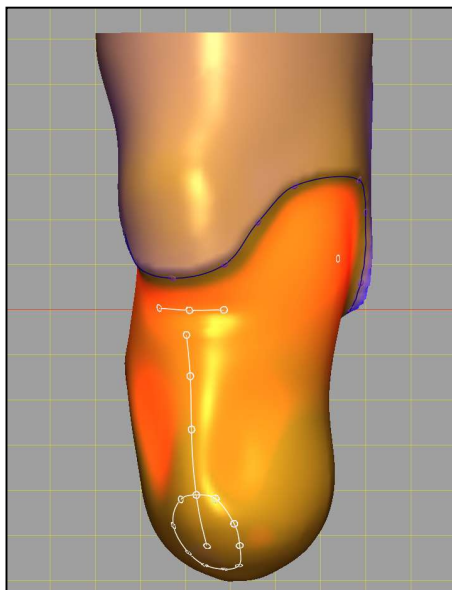


Omega CAD CAM

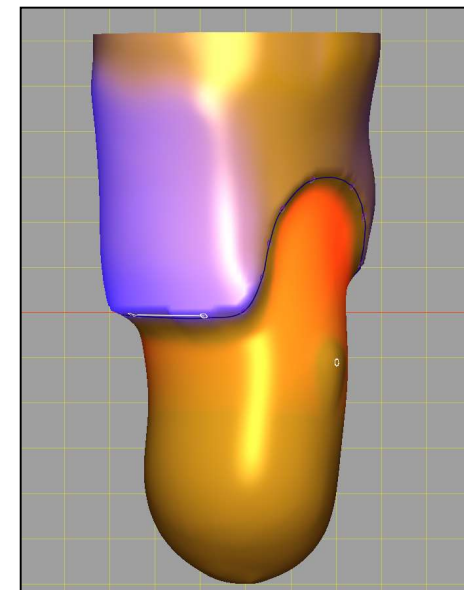


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GENERAL DOCUMENTATION

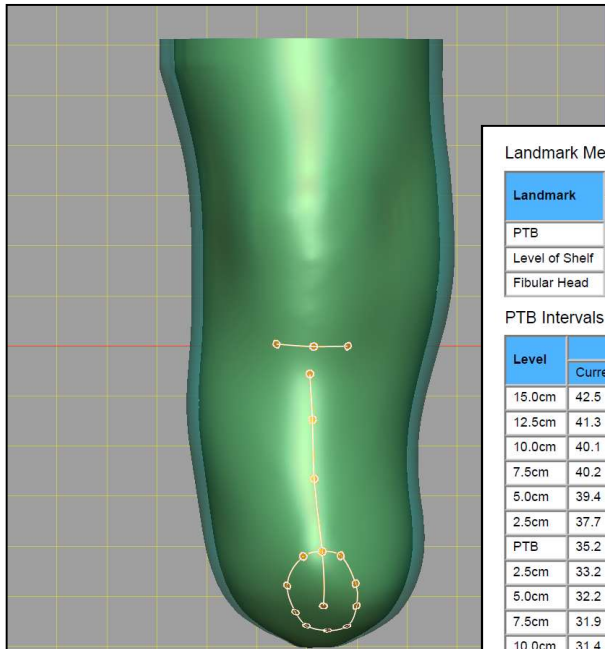


Modification Summary	
Design Modifications	
Modification	Description of changes
PTB	Maximum change: -6mm
Adjust Circumference	Level: 201mm set to 350mm Level: 151mm set to 355mm Level: 101mm set to 325mm Level: 51mm set to 292mm
Narrow M/L	Medial: -2mm Lateral: -1mm
Shelf	Depth: 6mm Medial Taper: 13° Lateral Taper: 12°
Trimline	Trimline: Default Ridge: 5mm



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COMPARISON REPORTING

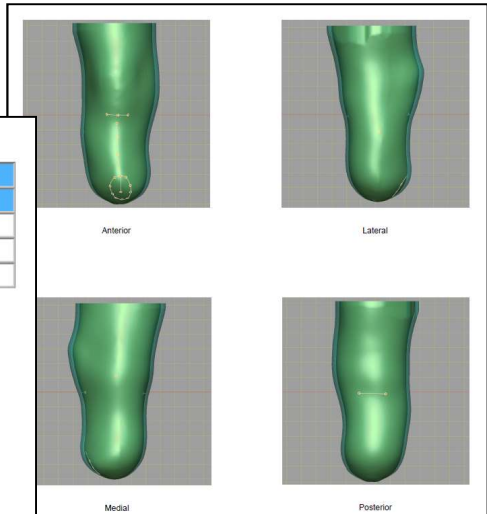


Landmark Measurements (cm)

Landmark	Circumference			AP			ML		
	Current	Compare	Diff	Current	Compare	Diff	Current	Compare	Diff
PTB	35.2	39.2	-3.9	11.3	12.6	-1.3	11.4	12.7	-1.3
Level of Shelf	35.0	38.8	-3.9	11.2	12.4	-1.2	11.4	12.6	-1.3
Fibular Head	32.9	36.6	-3.7	10.3	11.4	-1.1	10.8	12.0	-1.2

PTB Intervals (cm)

Level	Circumference			AP			ML		
	Current	Compare	Diff	Current	Compare	Diff	Current	Compare	Diff
15.0cm	42.5	47.2	-4.7	14.2	15.7	-1.6	12.9	14.4	-1.4
12.5cm	41.3	45.9	-4.6	13.8	15.4	-1.5	12.5	13.9	-1.4
10.0cm	40.1	44.6	-4.5	13.7	15.2	-1.5	12.1	13.5	-1.3
7.5cm	40.2	44.7	-4.5	13.9	15.4	-1.5	12.0	13.4	-1.3
5.0cm	39.4	43.7	-4.4	13.3	14.8	-1.5	12.0	13.4	-1.3
2.5cm	37.7	41.9	-4.2	12.5	13.9	-1.4	11.8	13.2	-1.3
PTB	35.2	39.2	-3.9	11.3	12.6	-1.3	11.4	12.7	-1.3
2.5cm	33.2	36.9	-3.7	10.4	11.5	-1.2	10.9	12.2	-1.2
5.0cm	32.2	35.7	-3.6	10.2	11.3	-1.1	10.5	11.6	-1.2
7.5cm	31.9	35.4	-3.5	10.3	11.5	-1.1	10.2	11.3	-1.1
10.0cm	31.4	34.9	-3.5	10.3	11.5	-1.1	10.0	11.2	-1.1
12.5cm	27.0	30.0	-3.0	8.7	9.7	-1.0	8.7	9.6	-1.0
15.0cm	1.2	1.2	0.0	0.6	0.6	0.0	0.6	0.6	0.0



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LEARNING AND INTEGRATION

- Learning curve is unique to each user
- Adopt in phases - Choose one application to learn before moving to another
- Multiple clinicians - team members develop different clinical competencies and learn from one another
- Requires a conscious and concerted effort
 - Taking the “I’ll play around with it in my spare time” approach typically leads to a failed implementation

OMEGA HARDWARE OPTIONS

- **Structure Sensor**

- Attaches to an iPad
- Most affordable option
- Use with Omega Scan App *
- Not integrated with OMEGA software (have to import scan)



* Requires Omega License

- **OMEGA Scanner 3D**

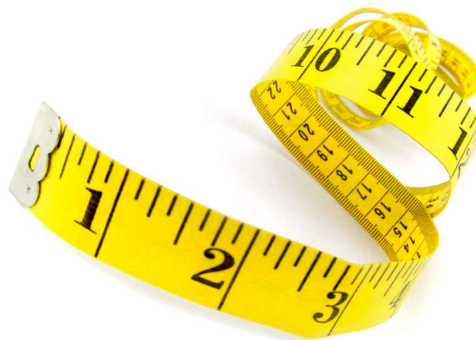
- White light scanner
- More accurate than Structure Sensor
- Fast Acquisition
- Integrated with OMEGA software



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OTHER INPUTS

- TF By Measurement
- TF Scan and Merge
- Import files (STL, OBJ, AOP)



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SOFTWARE CONCEPT

- **Capture.....**

Scan Model

Enter Measurements

Align Shape

Clean up model
Landmarks

- **Design.....**

Modifications

Customize Design Stack

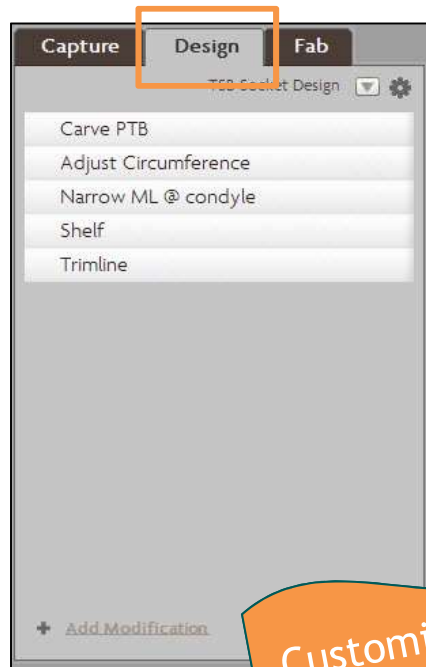
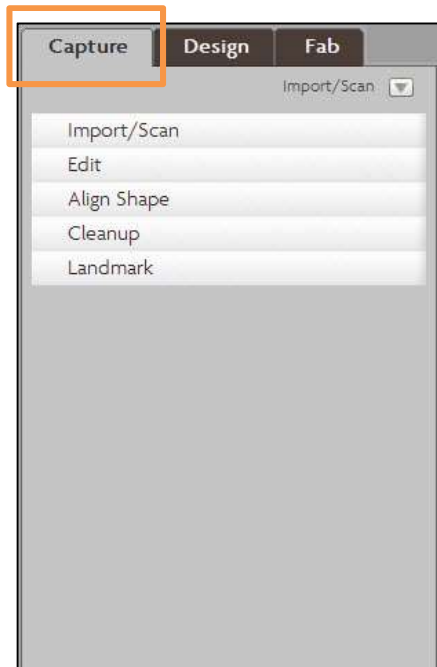
- **Fabricate.....**

Carve Model

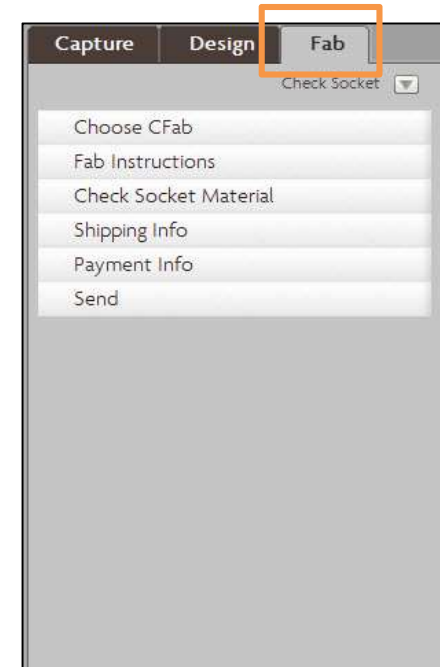
Socket Fabrication instructions

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STACKS



Customizable



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PATIENT FOLDER DISPLAY

Patient information

Multiple conditions (if relevant)

Create new
socket

Create a
Copy or
Mirror image

Display preview

Add notes to file

Steve Jones

Steve Jones, Male 70 yrs
Date of birth: 6/30/1945
Patient number: SJones2945
Edit

Discard patient folder

TT (RT) TF (LT) +

Create:
+ Socket

Create from:
+ Copy
+ Mirror

Date and Time	Type	Notes
<input type="radio"/> 12/10/2015 10:21 AM	Socket	pt1style
<input type="radio"/> 10/5/2015 11:56 AM	Socket	
<input checked="" type="radio"/> 7/13/2015 1:01 PM	Socket	9% reduction
<input type="radio"/> 6/29/2015 12:56 PM	Socket	6% Circumference Reduction

Discard

Notes

Close

3D model of a foot

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MODEL SCREEN

Patient information

Main Menu Bar

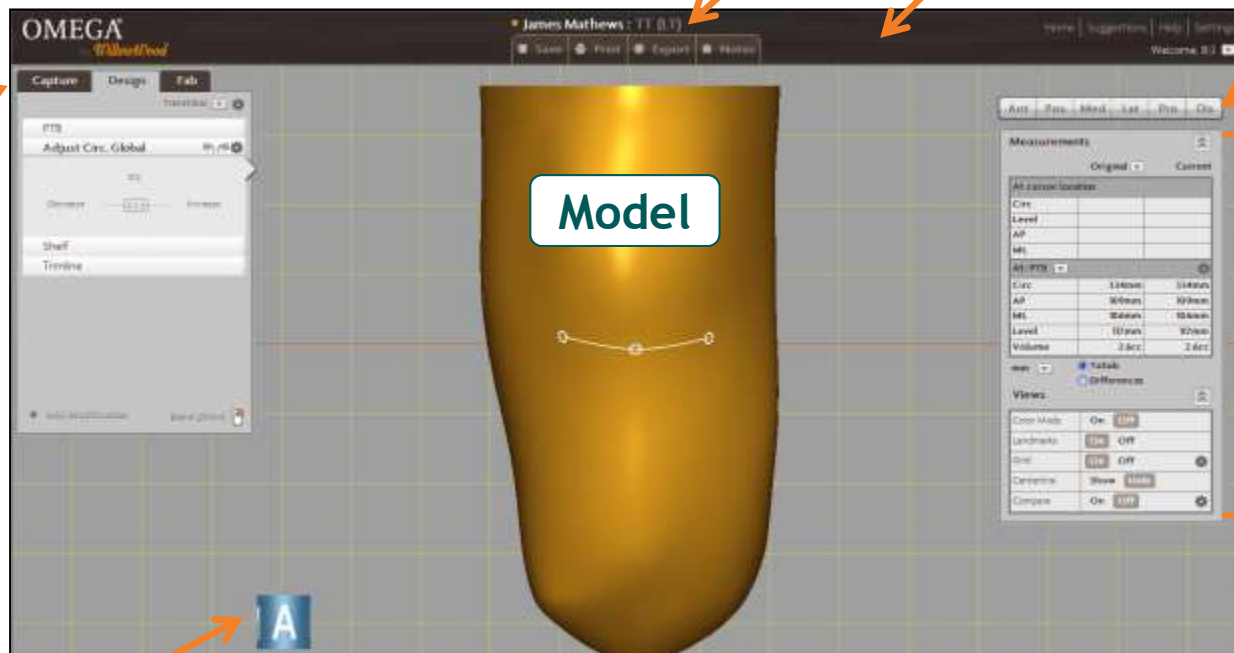
Orientation
selection

Stacks

Model

Measurement
and View
Panels

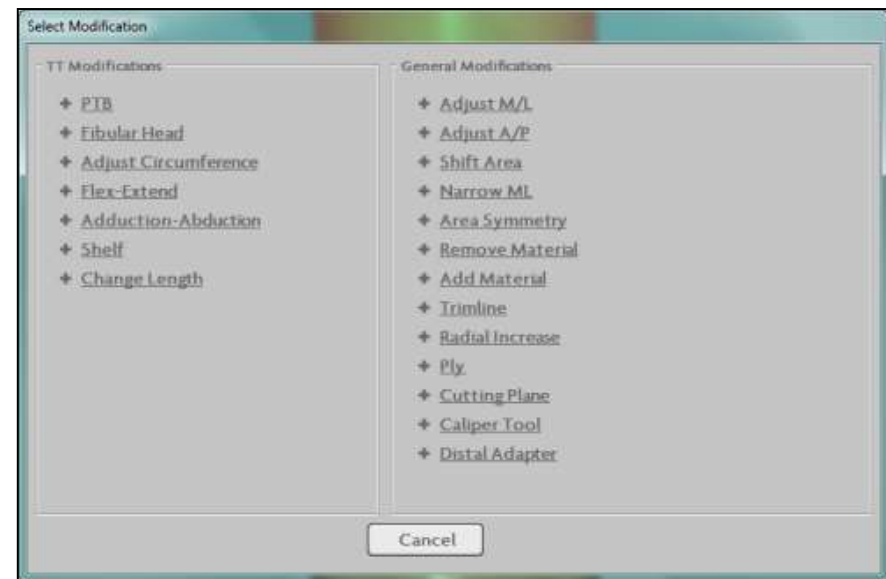
Model Orientation Indicator



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MODEL MODIFICATIONS

- Localized Areas & Regions
- Adjust Tools
- Bending
- Caliper Style
- Global Changes



ADJUST TOOLS

- A/P, M/L, and Circumference at Intervals
 - Additional parameters and options can be specified to further isolate modifications to a specific aspect of the shape



New step name: Adjust Circumference

Adjustment Parameters

- ☒ No restrictions
- ☐ Lock Medial and Lateral
- ☐ Lock Anterior and Posterior
- ☐ Lock M/L and Anterior
- ☐ Lock M/L and Posterior

Options

- ☒ At intervals
- ☐ Global

View: Anterior ▾

Add ☒ After current step
☐ Before current step

Add Cancel

New step name: Adjust M/L

Options:

- ☒ Medial and Lateral
- ☐ Medial Only
- ☐ Lateral Only

Adjust Parameters

- ☐ Lock Circumference

View: Anterior ▾

Add ☒ After current step
☐ Before current step

Add Cancel

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