

Crosby®



SW-PTP - Proof Test Plus Software

Operating instructions

PLEASE NOTE THAT STRAIGHTPOINT ACCEPT NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS WITHIN THIS MANUAL.

SW-PTP user manual

v8.00
Part No:
SU3627



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To make it easier in the event you need technical support customer service, please complete the following information:

Software Version:		
Media:	USB memory stick <input type="checkbox"/>	Download <input type="checkbox"/>
Date of Purchase:		

Trademarks

Windows® XP, Windows® Vista, Windows® 7, Windows® 8 and Windows® 10 are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
Intel® Core™ i3 processor is a trademark of Intel Corporation or its subsidiaries in the United States and/or other countries.

Marks and Symbols



The following symbols may be used within this user guide.



IMPORTANT

Indicates a note or where attention is required.



CAUTION

Indicates an important step, instruction or information necessary for the proper functioning of the software or loadcell monitoring.

Indicates a potentially hazardous situation that if not followed or avoided may result in personal injury or damage to property.

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Intended use

The Crosby|Straightpoint Proof Test Plus Software (SW-PTP) is intended to be used by professionals in the heavy lifting and weighing industry where traceability and documentary evidence is required of load verification and proof testing.

The software and required drivers is available as a download or provided on a USB memory stick.

Additional required items and documents

- Crosby|Straightpoint SW-USBSE Transceiver
- Any Crosby|Straightpoint wireless tension and compression load cell or load shackle
- Load Cell User Manuals (for relevant load cells being used)
- Desktop computer/laptop/tablet/other Windows device

Computer system requirements

- Intel® Core™ i3 processor with minimum 2 GB RAM
- Windows® XP, Windows® Vista, Windows® 7, Windows® 8 or Windows® 10 (must have English language option selected)
- Spare USB port (not hub)



CAUTION

Ensure Crosby|Straightpoint wireless load cells are handled and used in accordance with the safety instructions within the appropriate Load cell User Manual. This is supplied with the load cell.

Other equipment used in conjunction with Crosby|Straightpoint load cells, such as jacks, hydraulic cylinders, chains, strops, lifting frames, and other material handling equipment, must be inspected, checked, handled and used in accordance the appropriate manufacturer/supplier information and/or with all pertinent regulatory requirements and industry standards/codes of practice.

General

The Crosby|Straightpoint Proof Test Plus (SW-PTP) software package allows wireless monitoring at a safe distance of non- destructive load verification or proof testing. Test data is presented in the form of a Certificate of Testing and can be printed out directly as a PDF report or electronically transmitted/stored.

Typical applications include:

- Crane testing with water bags or block weights
- Pad eye or flypoint testing
- Crash barrier testing
- Construction equipment testing, such as shoring columns, Acrow props and lintels
- Lifting and spreader beam
- Hydraulic cylinder load testing
- Lifting equipment testing, such as slings, chains, wire rope. Hooks etc.

SW-PTP software

Features:

- User-friendly interface
- 100 % wireless – eliminates problems caused by damaged cables
- 700m (2300 ft) range allows operation at safe distance from test
- Log data at speeds up to 200Hz
- Connects to any Crosby|Straightpoint wireless loadcell or loadshackle
- Automatically creates digitally signed pass or fail certificate
- Real time load v time graph display
- Free entry fields to note wind speed, sea states etc.



Installation



1. Follow the download link provided and download the software as instructed. If the software has been provided on a USB key, insert it in to a spare USB port on your computer/laptop/tablet/device (do not use a hub). In either case, follow the on-screen instructions to install the software.
2. Remove the USB key (if used for installation).
3. Insert the SW-USBBSE transceiver into the USB port and let the drivers install.



IMPORTANT

To ensure optimum reception of the signal transmitted from the load cell(s), see the end of this section for mounting and alignment guidance.

4. Run the software from the desktop or start menu icon and you will be presented with the screen below.



Proof Test *Plus*
core|rfid

Activation

Your unique ID:

3007670A

Activation Code:

Activate

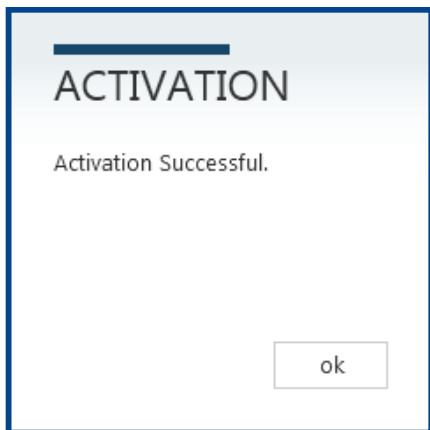
This application is not registered, please contact Straightpoint via email at: activate@straightpoint.com with your unique ID shown on the left.

Enter Activation Code here

5. Copy the unique ID that will show as the above example, paste it into an email and send to activate@straightpoint.com. You will then be sent an activation code in reply.

6. Enter Activation Code and click on

If activation of the software has been successful, the following pop-up will be displayed.



If the software fails to activate, check that the correct code has been entered. Re-enter and try again.
If activation still fails, contact Crosby | Straightpoint for assistance

Transceiver alignment

To achieve optimum reception of the transmitted RF signal from the load cell(s), consideration should be given to the operating environment and alignment of the SW-USBBSE receiving module.

The following guidelines and tips will ensure best possible reception and range.

To achieve the best possible signal reception, the SW-USBBSE should be mounted with the long side of the module vertical, and the top face pointing towards the loadcell(s). (Fig.1 and Fig. 2)

Try to ensure there is line-of-sight between the load cell(s) and the SW-USBBSE receiver with no obstructions in the path, as these will reduce the range and may possibly degrade performance of radio link due to reflected indirect signals reaching the SW-USBBSE receiver. Obstructions can, in the worst case, result in complete loss of the radio link. (Fig. 3)

Wherever practicable, try to avoid having structures or objects in the immediate vicinity of the transmitter and receiver antenna fields as these may distort the field patterns and adversely affect the range and quality of the radio link. Ideally, objects and structures should be at least one metre away from the antennae.



Fig. 1
Vertical mounting of SW-USBBSE
for optimum signal reception.



Fig. 2
Antenna receiving field.



Fig. 3
Establishing an obstacle free line-of-sight path between the SW-USBBSE receiver and the load cell transmitter will provide best quality radio link and greatest range.

Set-up

After successful activation, the set up screen will automatically be revealed.



Crosby

Proof Test Plus

core.rid.

Setup Required

The setup process must be completed the first time the software is activated and run. Setup information is unique to each Activation Code.
Carefully check that all information is correct before clicking **NEXT** as this screen cannot be retrieved without re-activation of the software and a new Activation Code.

Company Name:
Acme Lifting

Address 1:
New Street

Address 2:
Block 1

Address 3:

Address 4:

Zipcode/ Postcode:

Contact Tel:

URL:

Logo:
(320px x 95px recommended)
Load

Certification Prefix:

Next

The set-up process must be completed the first time the software is activated and run. Set-up information is unique to each Activation Code.
Carefully check that all information is correct before clicking NEXT as this screen cannot be retrieved without re-activation of the software with a new Activation Code.

1. Enter company information.
2. Enter three alpha numeric characters into the 'Certificate Prefix' box. This is optional, but remember, it cannot be subsequently added or amended. See note above.
3. Click on the

Load

 button to upload a company logo, recommended size of 320 x 95 pixels.

The company information and logo entered during set up will appear as the header information on the printed test reports and certificates generated by the system, along with the certificate number prefixed by the alpha numeric characters entered.

Acme Lifting
New Street
Block 1
Hampshire
UK
PO20 8DA
02392 478273
www.acmelifting.com

Certificate of Load Test

Date of Test:	14 July 2016	Product Description:	Liebherr LTM 40
Certification Number:	10005	Serial or Tag No:	A374GSH
Company	Big Cranes Inc.	WLL	40te
Address	Unit 8-10, F...		
	Cam...		
Tel:			
Contact			

Installation and set-up

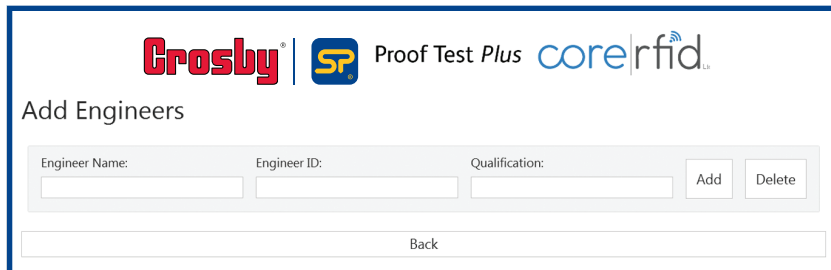
v8.00
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Set up engineers

After the software has been set up as detailed in section 3, the system is ready to use.

To add an Engineer:

1. Enter Engineer Name.
2. Add ID and Qualification, if applicable.

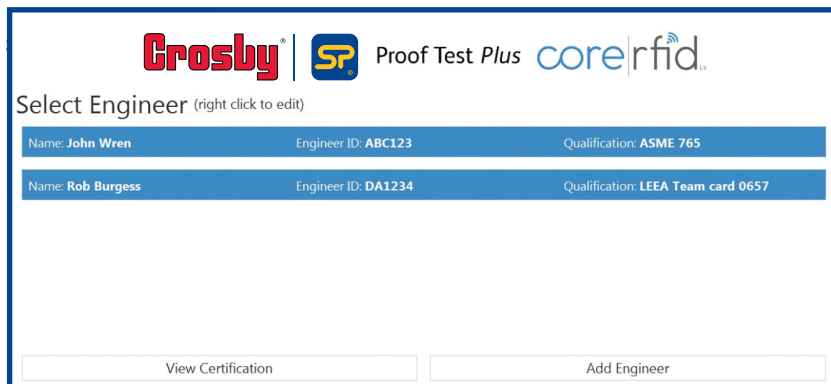


Crosby | **SP** Proof Test Plus core|rfid.

Add Engineers

Engineer Name: Engineer ID: Qualification:

3. Click on the button to add the Engineer to the database.
4. If Engineer(s) have been previously added, they may be selected for a test from the database.



Crosby | **SP** Proof Test Plus core|rfid.

Select Engineer (right click to edit)

Name: John Wren	Engineer ID: ABC123	Qualification: ASME 765
Name: Rob Burgess	Engineer ID: DA1234	Qualification: LEEA Team card 0657

To edit details regarding an Engineer, right click on the Engineer's name in this screen.

To delete an Engineer from the database, click on the button in the Add Engineers screen.

Set up load cells

To add a Straightpoint loadcell or loadshackle:

1. Enter Serial Number.
2. Enter Model Number.

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Add / Select Reference Load Cell

SN: Model: Calibration Date: Calibration Unit: WLL: Default Measuring Unit: Add

SN: 1AAA3 Model: RLP25TU WLL: 55,000lb Cal Due By Date: 10 March 2017 Measurement: lb

SN: 81234 Model: RLP50TU WLL: 26,000lb Cal Due By Date: 30 March 2017 Measurement: lb

SN: 61234 Model: RLP50T WLL: 50lb Cal Due By Date: 8 August 2016 Measurement: T

Back

3. Enter the date that the loadcell/loadshackle is next due to be calibrated. This can be selected from the pop-up calendar (shown on the right).
4. Select the preferred units of measurement for the calibration of the unit. Choose tonnes or lbs from the drop-down in the 'Calibration Unit' box.
5. Select the working load limit of the load cell/load shackle (WLL) from the dropdown list.
6. To add a new WLL value to the drop down list, press the button to reveal a drop down box (see below).

Date Picker

Select a date

July 2016

Mo Tu We Th Fr Sa Su

27 28 29 30 1 2 3

4 5 6 7 8 9 10

11 12 13 14

Confirm

Crosby | **SP** Proof Test Plus corerfid

Add / Select Reference Load Cell

SN: Model: Calibration Date: Calibration Unit: WLL: Default Measuring Unit: Add

SN: 1AAA3 Model: RLP25TU WLL: 55,000lb Cal Due By Date: 10 March 2017 Measurement: lb

SN: 81234 Model: RLP50TU WLL: 26,000lb Cal Due By Date: 30 March 2017 Measurement: lb

SN: 61234 Model: RLP50T WLL: 50lb Cal Due By Date: 8 August 2016 Measurement: T

Enter T Value: 1110

Calculated lb Value: 2,442,000

Cancel Add

Back



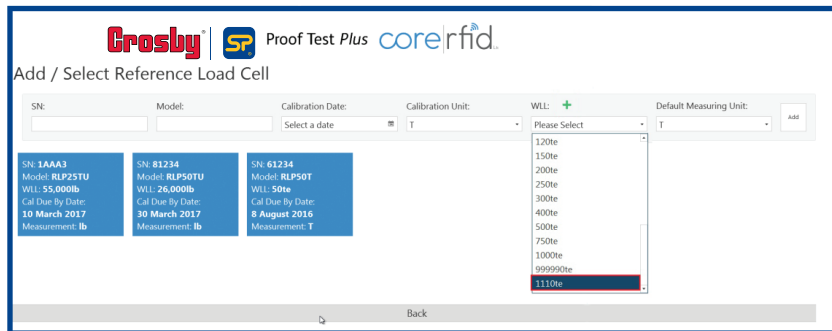
EXCEPTION:

If the last 4 digits of the serial number starts with '0', replace that '0' with 'F'. That is, if the serial number is 10345 for example, then use SN in software as '1F345'

7. Enter the load value in tonne (must be above 1000te and a value increment of 10te. The equivalent load in lbs will automatically be calculated and appear in the box below.

8. Select

9. The value will be saved into the WLL drop down list where it can be selected in the future.



10. Select the units of measurement that are to be displayed on screen and recorded on the calibration certificate. Choose Tonnes or Lbs from the drop-down in the 'Default Measuring Unit' box.

11. Click on the button to add the loadcell to the database.

12. If load cells/load shackles have been previously added, they may be selected from the database.



NOTE: If a load cell/load shackle is selected that is outside of the recommended re-calibration period of twelve months a pop-up warning screen will be displayed.

CALIBRATION

The load cell you have selected appears to be out of calibration (12 months). Has it been recalibrated?

If the load cell/load shackle has been re-calibrated, please click on the button and enter the new re-calibration date.

If the load cell/load shackle has not been recalibrated, a test can still be carried out but the final certificate will note that the test was performed using a load cell/load shackle out of the Crosby|Straightpoint recommended calibration period.

Set up customer

To add details of a new customer having a load verification or proof test:

1. Enter customer name, address, telephone.
2. Enter customer contact name.
3. Click on the button to add the customer to the database.
4. If customers have been previously added, they may be selected from the database, or they can be searched by entering their name or address and using the button.

The screenshot shows the 'Set up customer' interface. At the top, there are logos for Crosby, SP, Proof Test Plus, and core|rfid. Below the logos is a 'Search Customer' section with two input fields: 'Customer Name:' and 'Address:', followed by a 'Search' button. Below this is an 'Add / Select Customer' section with four input fields: 'Customer Name:', 'Address:', 'Tel:', and 'Contact:', followed by an 'Add' button. At the bottom, there are two blue buttons. The left button is labeled 'Customer Name: Big Cranes Inc. Address: Unit 8-10, Expressway.' The right button is labeled 'Customer Name: Carpenter lifting Address: High Street, Selsey, Wt'.

Set up load test

To set up the load test:

1. Enter a description of the product to be verified/proof tested.
2. Enter its serial number.
3. Enter the working load limit (WLL).
4. Enter the test method – such as water bag, block weight etc.

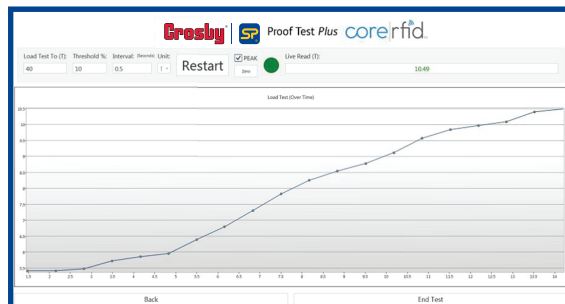
The screenshot shows the 'Load Test Details' interface. At the top, there are logos for Crosby, SP, Proof Test Plus, and core|rfid. Below the logos is a 'Load Test Details' section with four input fields: 'Product Desc:', 'Serial #:', 'WLL:', and 'Test Method:'. The 'Product Desc:' field contains 'Liebherr LTM 40', the 'Serial #' field contains 'A374GSH', the 'WLL:' field contains '40te', and the 'Test Method:' field contains 'Water bag'. Below these fields is a 'Notes:' section with a text area containing '4mph north easterly wind'. At the bottom, there are two buttons: 'Back' and 'Next'.

5. Click on the button.

Testing

To carry out a load verification or proof test, firstly, enter details of the scope of the test.

1. Enter the value of the load to which the test is to test to (Load Test To:) – 40T in example shown above. The Default Display Unit' can be changed by making a selection using the drop down in the 'Measuring Unit' box. The calibration certificate will show the selected unit.
2. Enter the Start Threshold. This is set to 10% by default, but may be adjusted. This is the point at which the software will start to log the applied load. In the instance shown in the screenshot above, the logging of the load will start at 10% of 40t = 4te. This means that if a test is required with a slow build up of load, the lower load data, which may be of no interest, can be filtered out.
3. Enter the Read Interval. This is set to 0.5 (seconds), or 2 times per second, by default, however, it may be adjusted up to 200 times per second.
4. Select the checkbox PEAK where required. In this mode, live load reading and graph will hold and show the peak value attained during the test. Otherwise instant load values will be displayed.
5. Use the button to toggle between Net and Gross weight. When the button displays 'Zero', the load will be gross weight. When displaying 'Gross', the load will be nett weight.
6. Once the load is rigged, click on the button. The traffic light will turn ● to indicate that successful connection has been established with the load cell/load shackle. Once the Start Threshold is reached, the traffic light will turn to ● indicating that recording has started.



The on-screen graph will now populate with data as the test progresses, and at the same time, the Live Read window will show a live spot load reading.

The test it can be restarted by clicking on the button.

7. When testing is finished, click on the button. The following screen will be presented:

Is this acceptable? Max: 6.97

ACCEPTABLE

UNACCEPTABLE

Notes:

Back

Complete

8. If the test is acceptable, click **ACCEPTABLE**.
9. The 'Notes' field may be used to add any comments regarding the test.
10. Then click **Complete**.
11. When the pop-up appears, click on OK. The system will return to the start of the test.

COMPLETE

Successfully completed load test.

ok

12. If, for some reason, the test has proved unacceptable, click **UNACCEPTABLE**. The 'Notes' field can be used to enter test failure details or similar.

Is this acceptable? Max: 6.97

ACCEPTABLE

UNACCEPTABLE

Notes:

Crack formed on crane hook

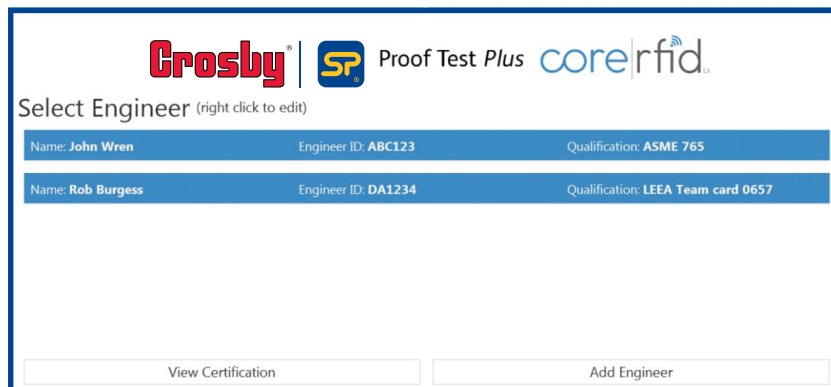
Back

Complete

13. After adding any notes, select **Complete**, then OK, the system will return to the start of the test.

Test Reports/Certificates

After completing the test and step 9 or 12 in the previous section, the system will return to the screen below:



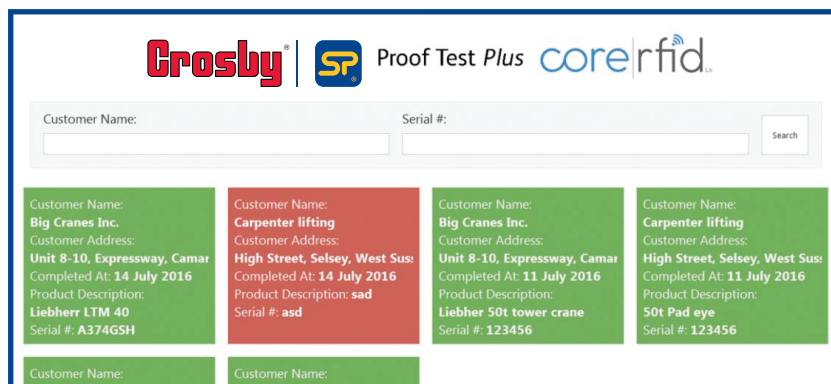
Crosby | **SP** Proof Test Plus core|rfid

Select Engineer (right click to edit)

Name	Engineer ID	Qualification
John Wren	ABC123	ASME 765
Rob Burgess	DA1234	LEEA Team card 0657

View Certification Add Engineer

1. Click the button. This will reveal the screen shown below:



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Customer Name: Serial #:

Customer Name: Big Cranes Inc. Customer Address: Unit 8-10, Expressway, Camar Completed At: 14 July 2016 Product Description: Liebherr LTM 40 Serial #: A374GSH	Customer Name: Carpenter lifting Customer Address: High Street, Selsey, West Sus Completed At: 14 July 2016 Product Description: sad Serial #: asd	Customer Name: Big Cranes Inc. Customer Address: Unit 8-10, Expressway, Camar Completed At: 11 July 2016 Product Description: Liebherr 50t tower crane Serial #: 123456	Customer Name: Carpenter lifting Customer Address: High Street, Selsey, West Sus Completed At: 11 July 2016 Product Description: 50t Pad eye Serial #: 123456
--	---	--	--

Customer Name: Customer Name:

2. Select certificate from the list.

Listings coloured **GREEN** are for tests that passed.
Those coloured **RED** are those that failed.

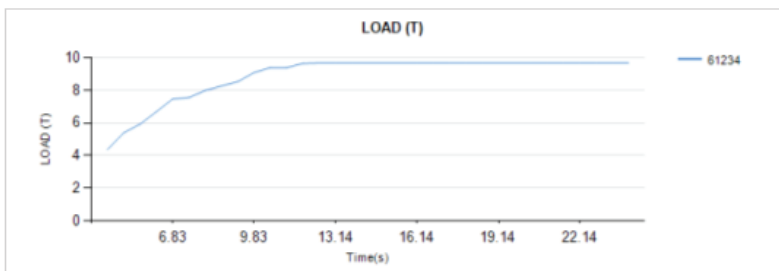
Reports/Certificates may also be accessed using the search facility using the customer name or the serial number of the item tested.

3. Upon selection, the test certificate will appear on screen.
4. To remove a Report/Certificate, right click on it in the list to reveal a pop-up that will ask for confirmation that the Report/Certificated is to be deleted.

Certificate of Load Test

Date of Test:	14 July 2016	Product Description:	Liebherr LTM 40
Certification Number:	10005	Serial or Tag No:	A374GSH
Company	Big Cranes Inc.	WLL	40te
Address	Unit 8-10, Expressway, Camarillo, CA, 93012	Test Method	Water bag
		Load Test To:	40T
Tel:	805 234 3486	Duration of Test:	23.95 seconds
Contact	Bob Friend	Notes:	4mph north easterly wind
Reference Loadcell:	RLP50T	Calibrated On:	8 August 2015
Serial Number:	61234	WLL:	50te

Peak Load: 9.68 T



This is to certify that this product described herein has been subjected to the load test.
Caution: Never exceed the rated capacities.

Signed: Rob Burgess

Appointed Person: Rob Burgess ID: DA1234 LEEA Team card 0657

The Report/Certificate may be saved, printed, emailed or exported to Microsoft Excel and other programs.

If the test was deemed **UNACCEPTABLE**, the load test graph will not be displayed.
The fail notes will be included instead.

Using the system

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Distributor Stamp



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