

What makes Alpha TransForm a  
unique and compelling way to build and deploy  
enterprise mobile data capture and dispatch apps?



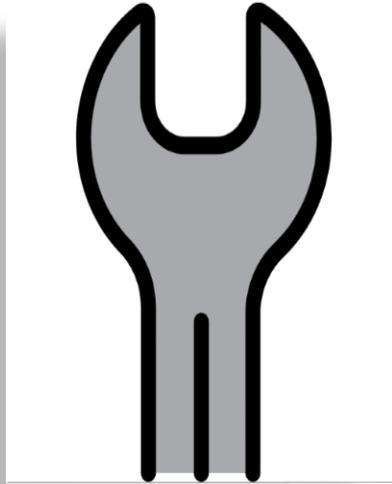
Alpha TransForm is an extremely rapid way to build robust mobile data capture and dispatch apps

It is designed for developers and business analysts/"power" users who can take advantage of TPL – TransForm's simple but powerful programming language, on-device data support and its very rich API

A good way to illustrate what makes TransForm unique vs no-code mobile forms products is via a real-world example (Boiler Minder,) built in Alpha TransForm person *in a few hours*.

# Boiler Minder

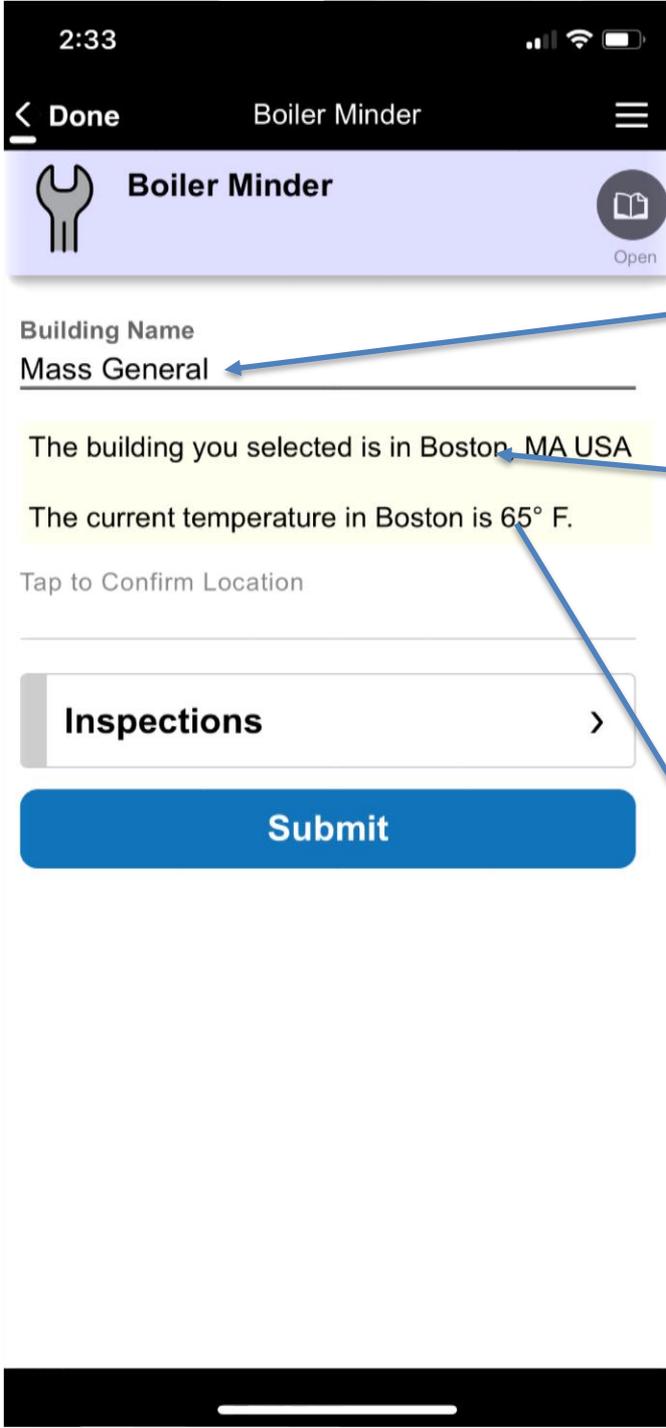
is a mobile app designed to perform inspections and repairs on industrial boilers. Its aim is to improve worker productivity and increase customer satisfaction levels



**Boiler Minder takes advantage of TPL, the TransForm Programming Language, TransForm's support for the on-device database and TransForm's rich API**

TransForm has powerful offline capabilities for use in basements and other no signal situations

**No other mobile app development & deployment platform designed for very high productivity offers the power and control needed to build industrial strength mobile apps like "boiler minder" in a few hours**

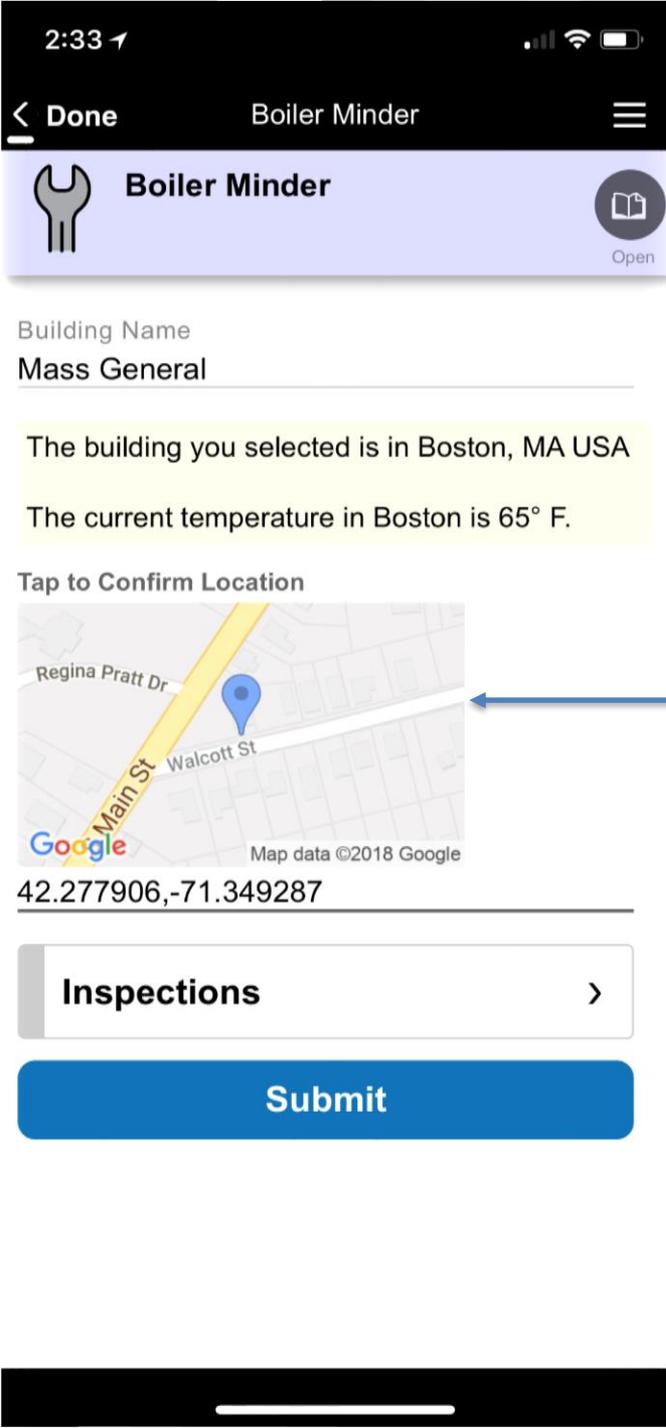


The app is designed to work both online and offline  
It starts by asking the technician to select a building  
from a list stored on the device.

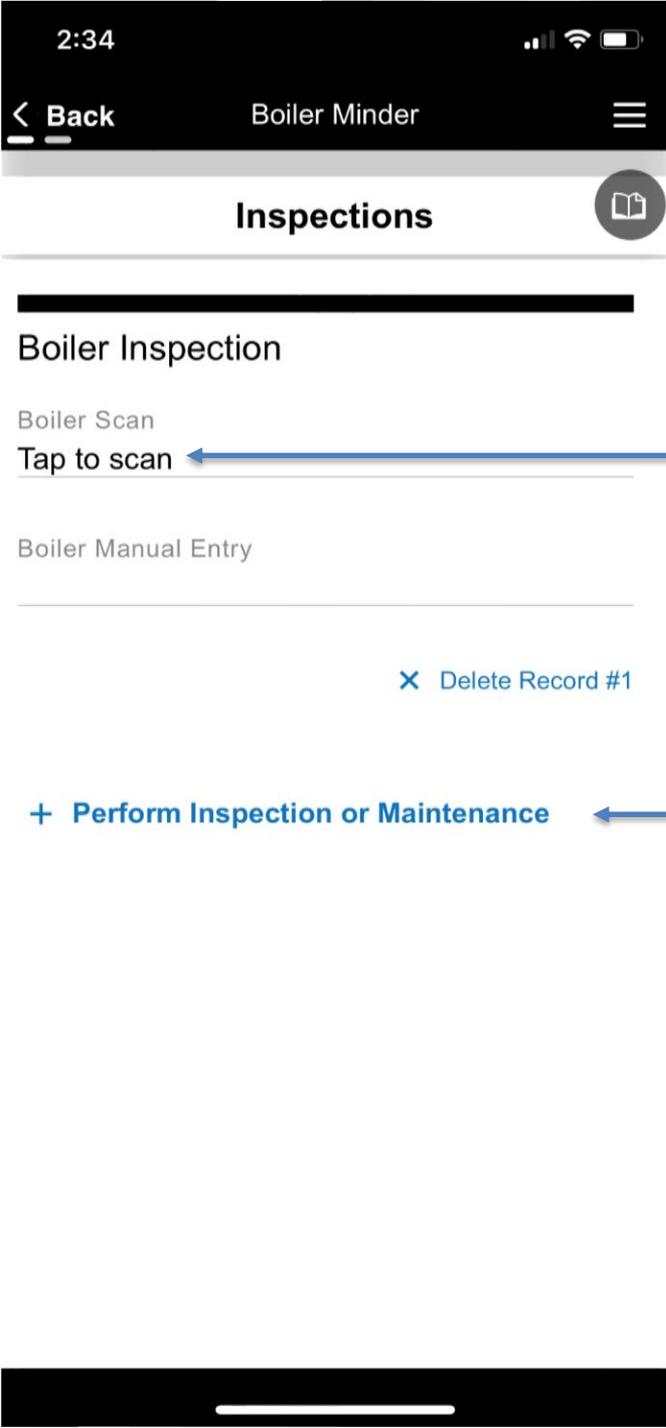
When the technician chooses a building, information about that building,  
such as the city in which it is located, is pulled from an  
on device data source which was populated when there is signal .

(Other information about the building such as permits, videos  
and blueprints can also be stored on the mobile device and  
is available for lookups and accessing when offline)

If an Internet connection is available, the app performs a callback,  
using its support for web services, to get the current temperature  
for the city. The temperature is displayed and used later.

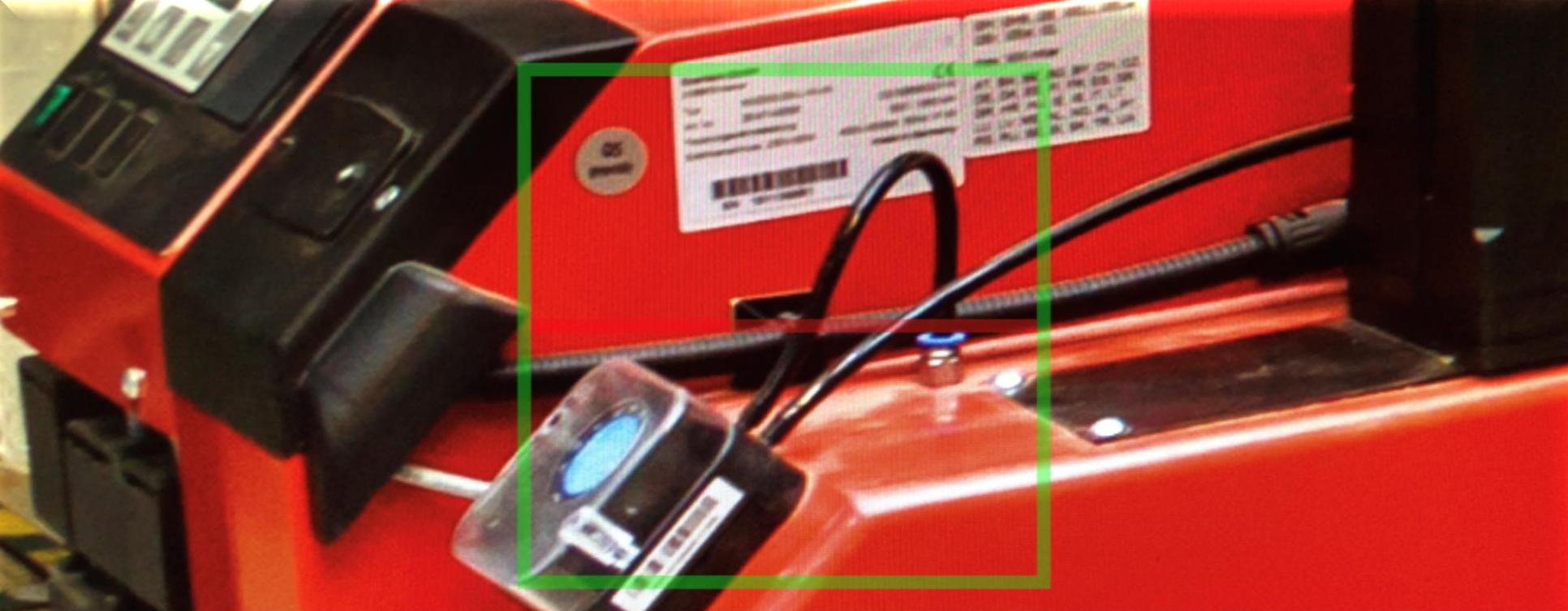


To confirm that the technician is at the correct location, the app uses the device's own GPS hardware and Google Maps. No connection is needed



The inspection begins by either typing in an ID code or by scanning a barcode.

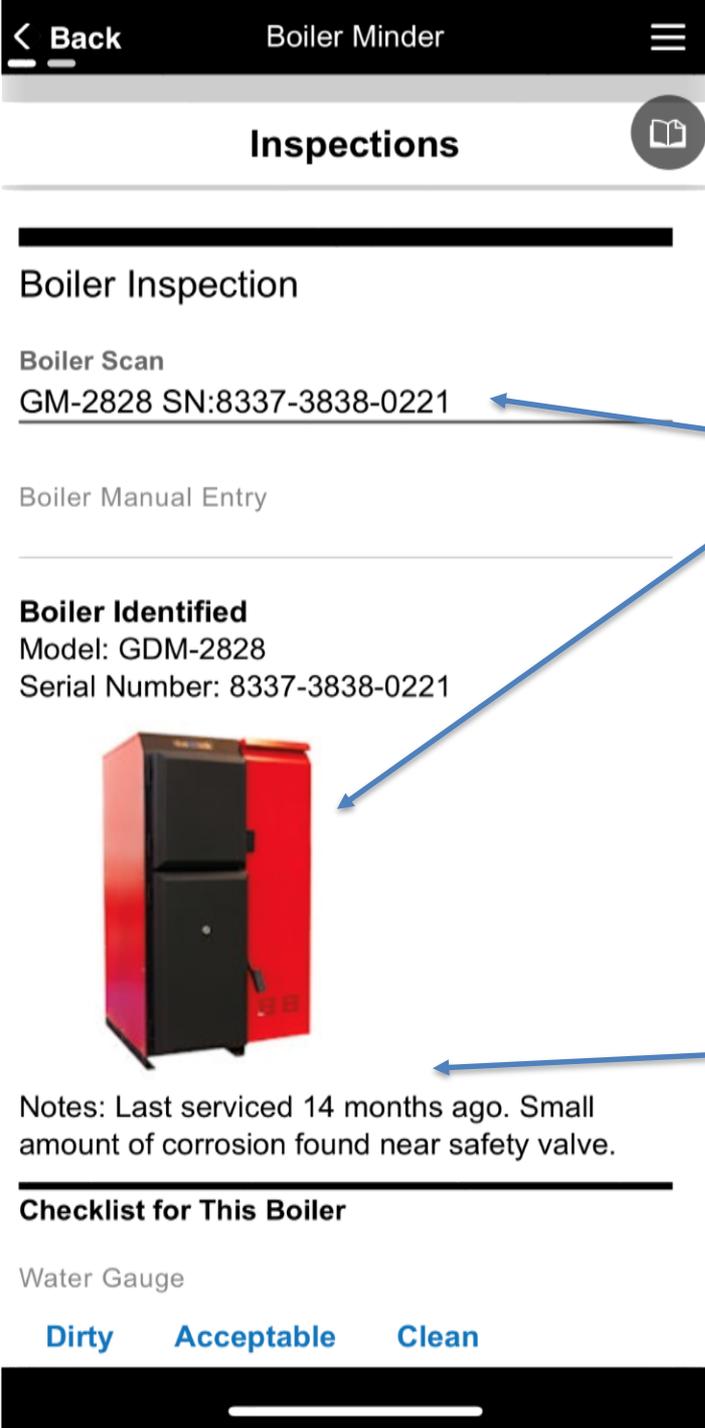
TransForm supports data structures of unlimited complexity. In this case, it automatically sets up a parent-child relationship (which we call a data group) to store multiple inspection records for each building.



Cancel

The app uses the camera built into the device to scan codes.

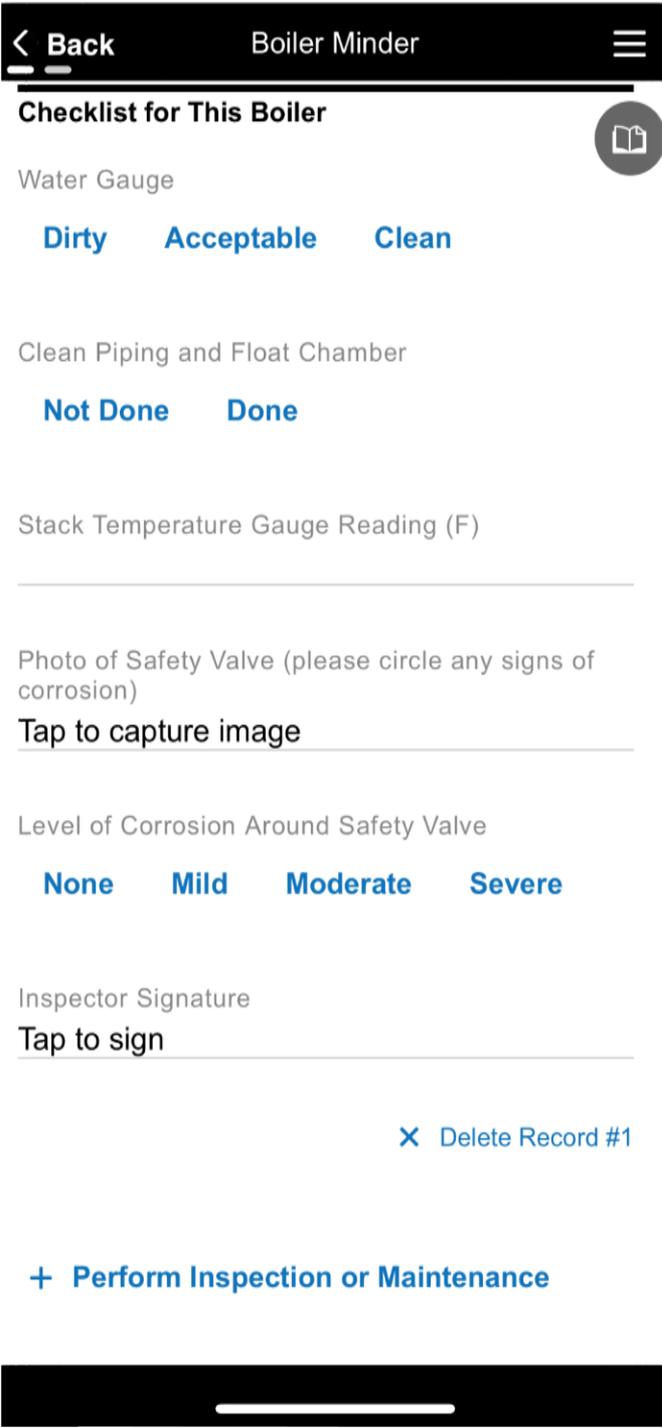
(Identifying the type of equipment via scanning saves time, eliminates errors and provides access to repair documents, diagrams and videos that the inspector may want to access when offline)



Once the code is scanned, the app retrieves information about the boiler, including its model, serial number, and a photo of the equipment from the on-device data store assuming there is no signal.

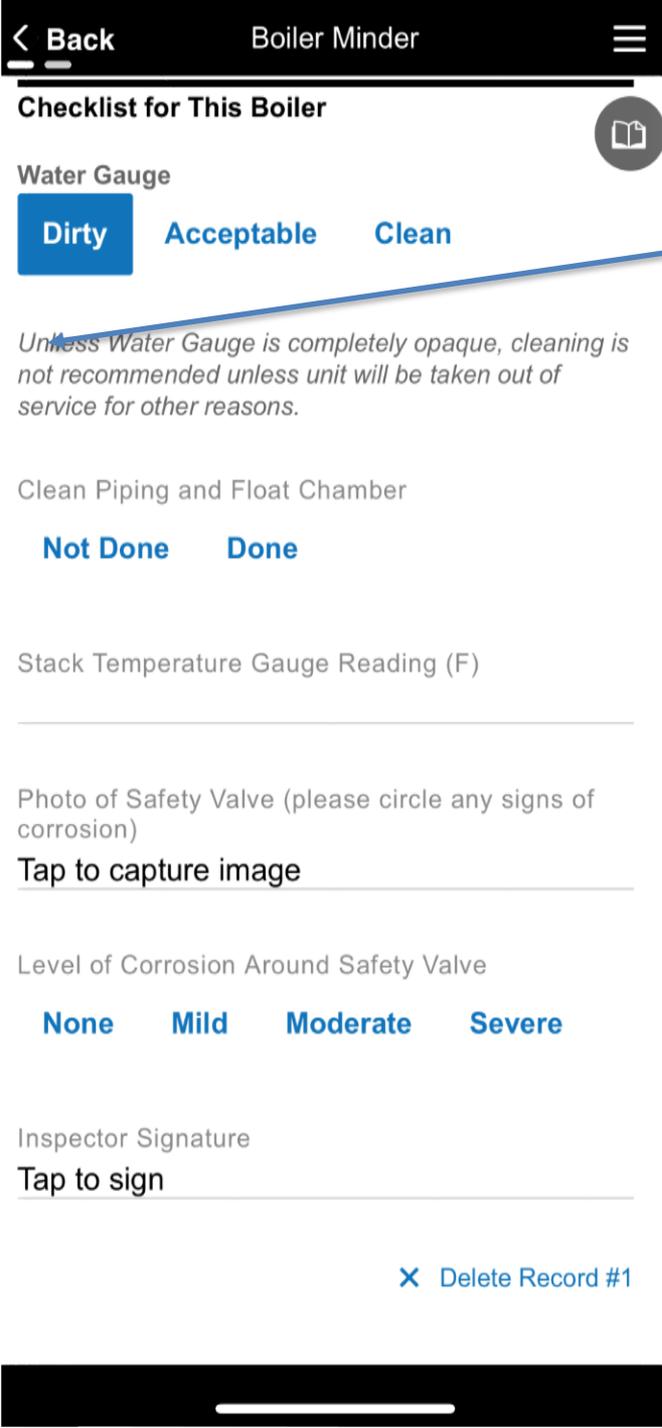
(If there was signal, data could be retrieved from a corporate database or from a web service using TPL and the API)

Some of the information it retrieves includes when the unit was last serviced, and any notes that might be important.



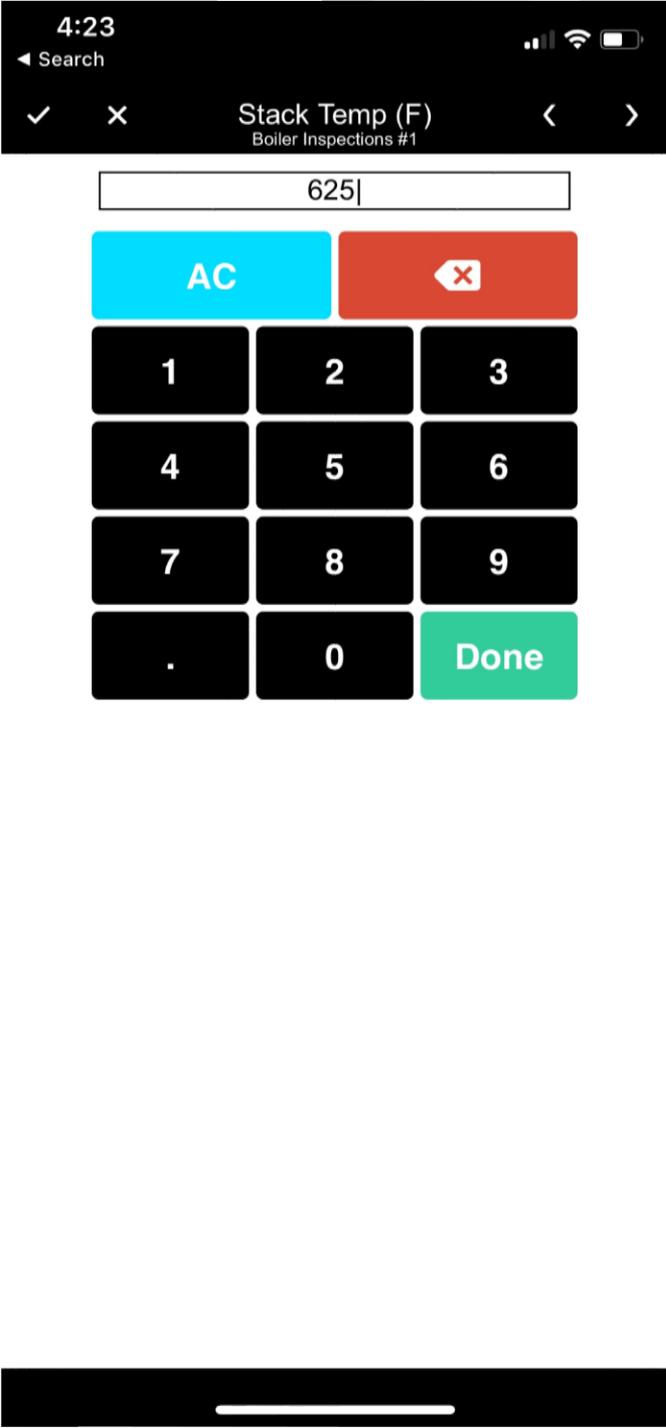
Based on the type of boiler that is being serviced, the app provides a custom list of items to inspect.

The ability to enable experienced inspectors to easily create and update an app that captures their best practices, assures consistent inspection practices and quality, and transfers their institutional knowledge to other workers.

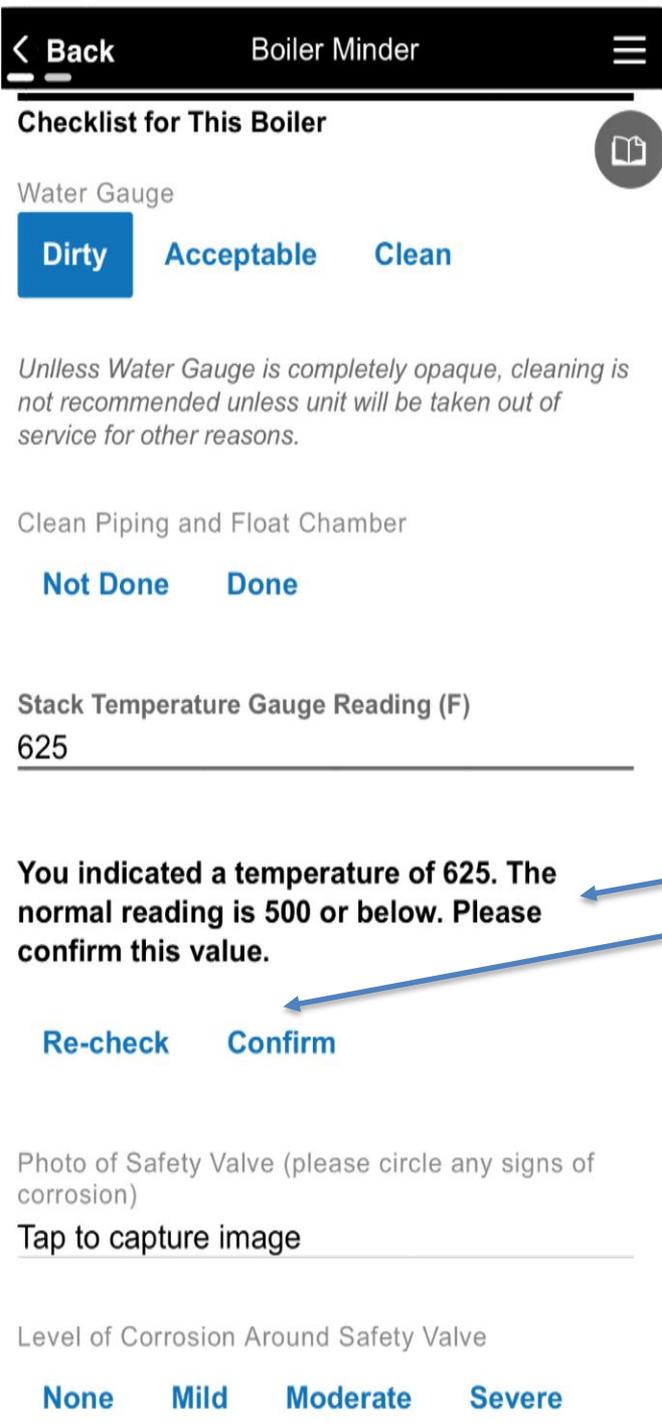


Because the technician indicated that the water gauge is dirty, a note appears telling them that they should clean it the next time the system needs to be serviced.

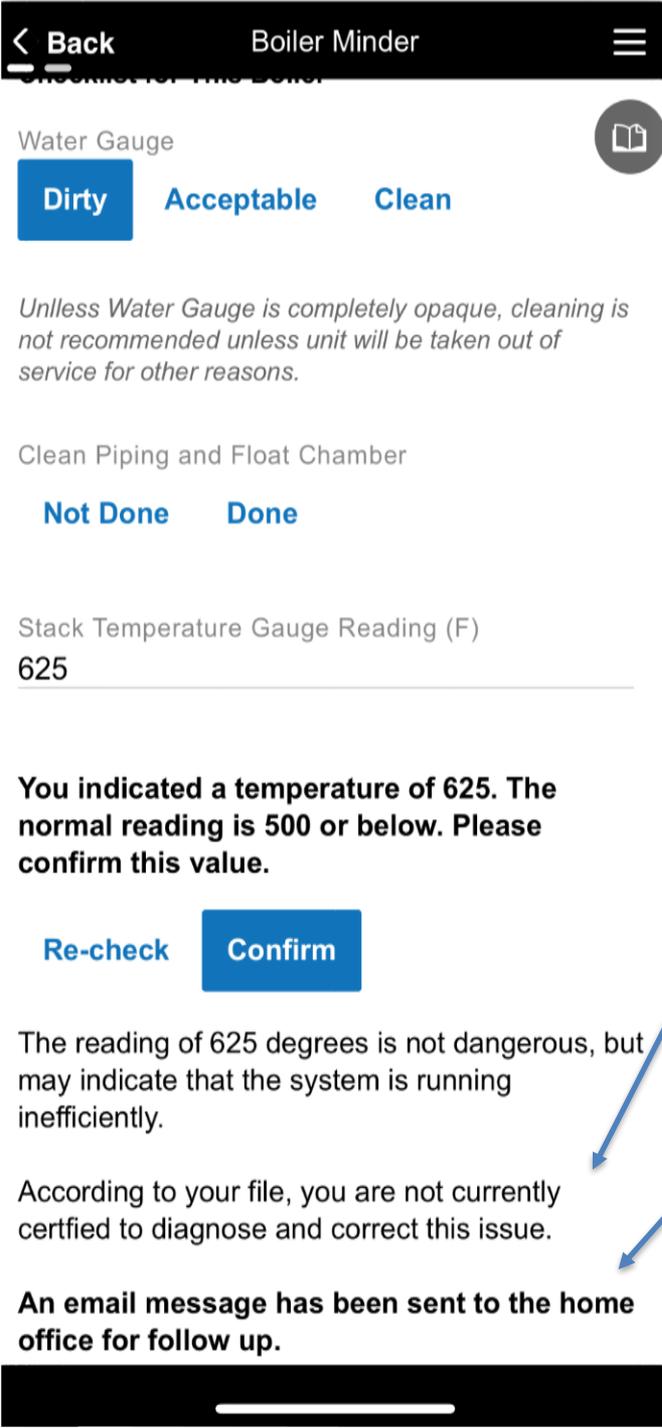
This is all done through a very easy “If...Then” Feature in TransForm



For the Stack Temperature (i.e., the temperature of the gasses going up the chimney and other numeric fields,) a mobile optimized keyboard is provided with big buttons to make typing more efficient.



A note appears based on the data that was entered. In addition, there are now buttons prompting the technician to confirm this reading since it falls outside of the normal range.



With the reading confirmed, the device checks its on-device database to see if the technician is qualified to make the repairs.

Since the technician is not qualified to perform this aspect of the repair, the app automatically sends an email to the home office for follow up. (The technician can still continue on with the rest of the assignment)



TransForm allows the technician to determine the resolution of the photos that you take. Medium resolution is sufficient for most purposes, and saves space on the device. In this case, however, we used high resolution to see more details.

(TransForm allows the technician to take an unlimited number of pictures without the designer of the app having to define, ahead of time, how many pictures are allowed.)

Save Cancel



With built-in annotation and zoom, the technician can circle items of interest. In this case the safety valve is moderately corroded.

The technician can choose the thickness of the line and the color of the ink. Blue was used here for contrast.

Another field could have easily been added to record any strange sounds the boiler might be making

inefficiently.



According to your file, you are not currently certified to diagnose and correct this issue.

**An email message has been sent to the home office for follow up.**

Photo of Safety Valve (please circle any signs of corrosion)



Level of Corrosion Around Safety Valve

None Mild **Moderate** Severe

notes

Inspector Signature

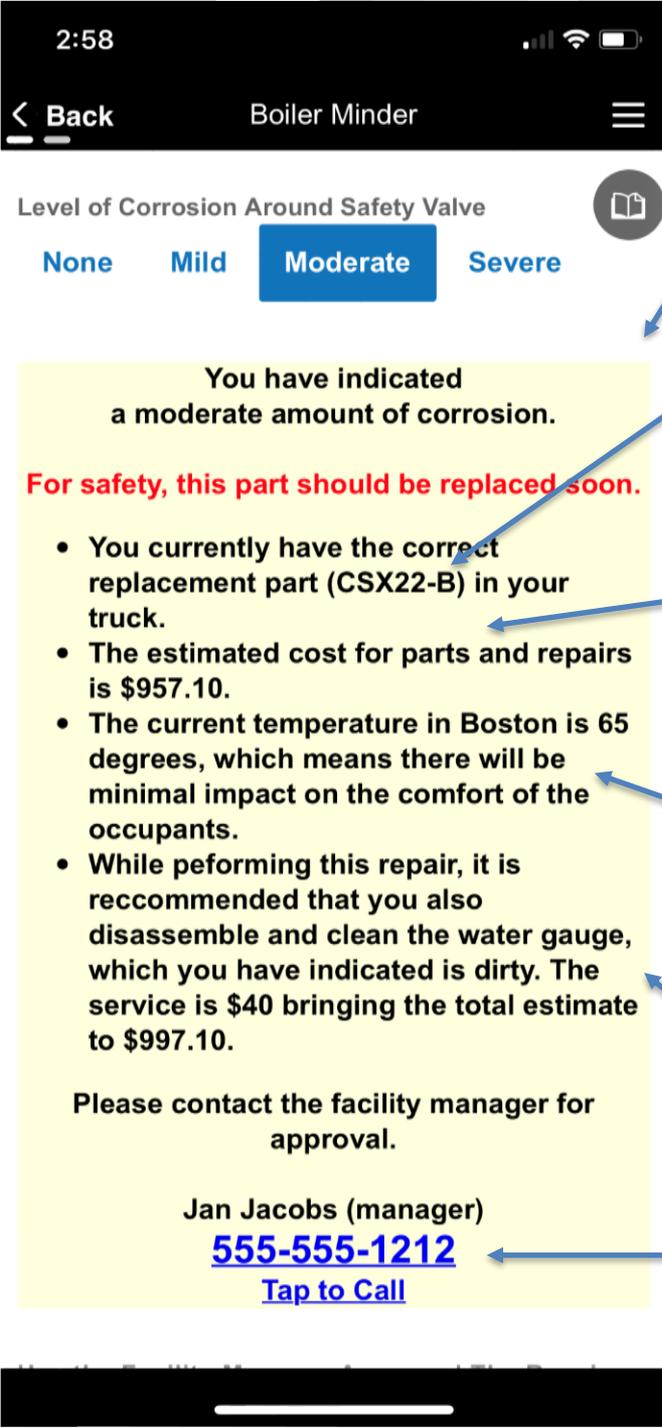
Tap to sign

X Delete Record #1

+ Perform Inspection or Maintenance

In this case the technician selects "Moderate" after viewing image

A notes field allows the technician add any notes by taking advantage of the voice to text support



Once the technician selects the choice “moderate” for the level of corrosion around the safety valve, a new section appears detailing what work needs to be done, the is estimated to cost, and who needs to approve it.

The app already knows the replacement part that is needed based on an on device database lookup triggered by scanning the barcode. It then determines that the part is in the technician’s truck.

The on-device database also knows the prices of parts and labors for common repair, and uses them to create an estimate of repairs.

The app uses the current temperature that it collected earlier and determines that now would be a good time to perform the service. Had the outside temperature been low, different instructions would appear

The app also knows that the add-on service (cleaning the water gauge) can be performed It adds this to create a new estimate total.

Finally, the app looks up the contact information for the person who needs to approve the repair, and can even initiate a phone call.

degrees, which means there will be minimal impact on the comfort of the occupants. 

- While performing this repair, it is recommended that you also disassemble and clean the water gauge, which you have indicated is dirty. The service is \$40 bringing the total estimate to \$997.10.

Please contact the facility manager for approval.

Jan Jacobs (manager)

[555-555-1212](tel:555-555-1212)

[Tap to Call](#)

If the repair is approved, the work can proceed otherwise no further work will be performed and the technician will sign off.

Another field could be added here to capture the voice of the Facility Manager approving the repair

Has the Facility Manager Approved The Repair Estimate?

Yes No

Inspector Signature

Tap to sign

 Delete Record #1

+ Perform Inspection or Maintenance

The business value of all the functionality described in the yellow section is that repairs can be identified, parts located, quotes obtained and work orders approved instantly while the tech is on site – significantly cutting the time to get something fixed and leading to happier customers..

degrees, which means there will be minimal impact on the comfort of the occupants.

- While performing this repair, it is recommended that you also disassemble and clean the water gauge, which you have indicated is dirty. The service is \$40 bringing the total estimate to \$997.10.



Please contact the facility manager for approval.

Jan Jacobs (manager)

**555-555-1212**

Tap to Call

Has the Facility Manager Approved The Repair Estimate?

Yes

No

### Maintenance Instructions #1

Click Stopwatch to Log Time for Repairs



Tap to start timer

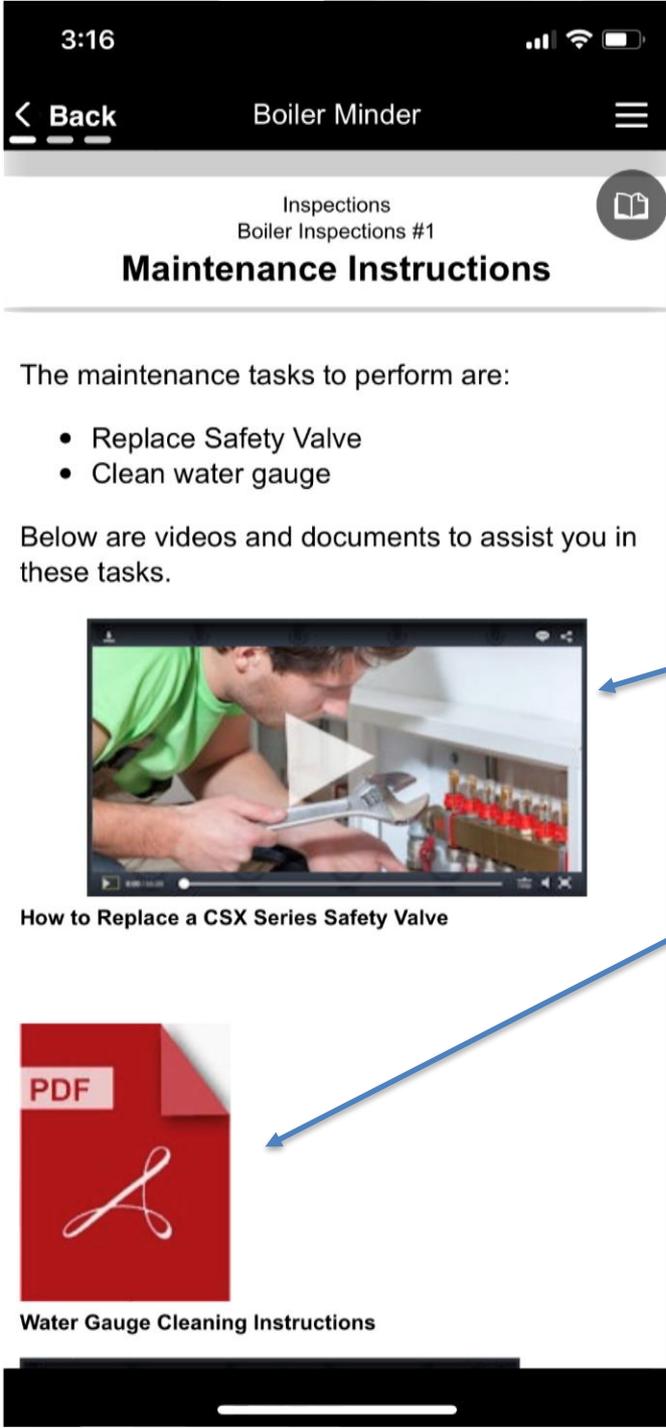


Was Maintenance Successful?

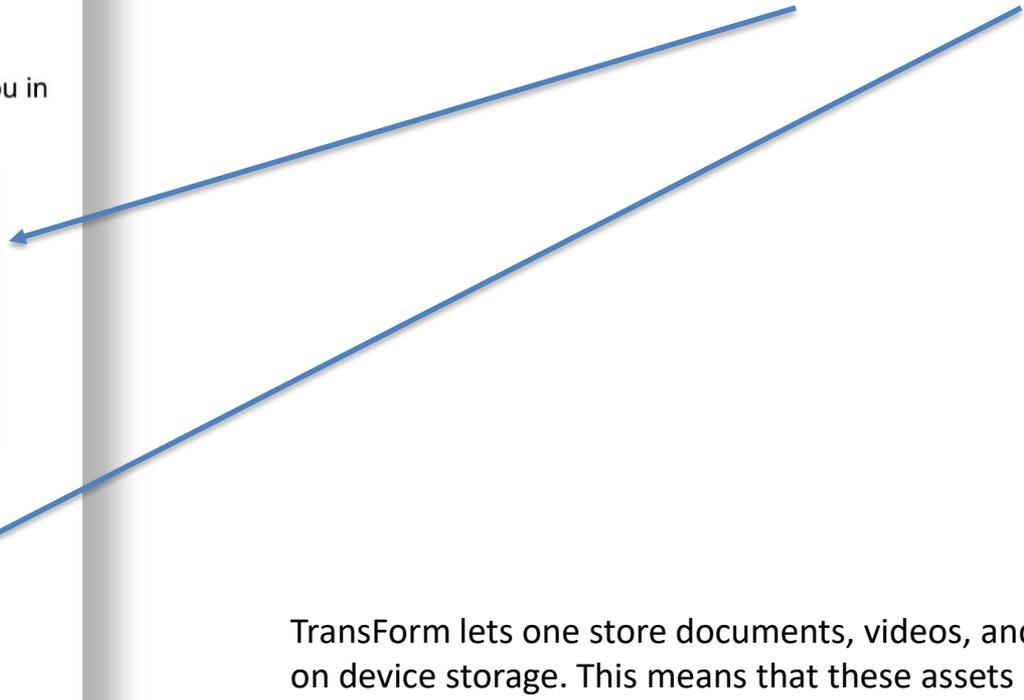
Yes

No

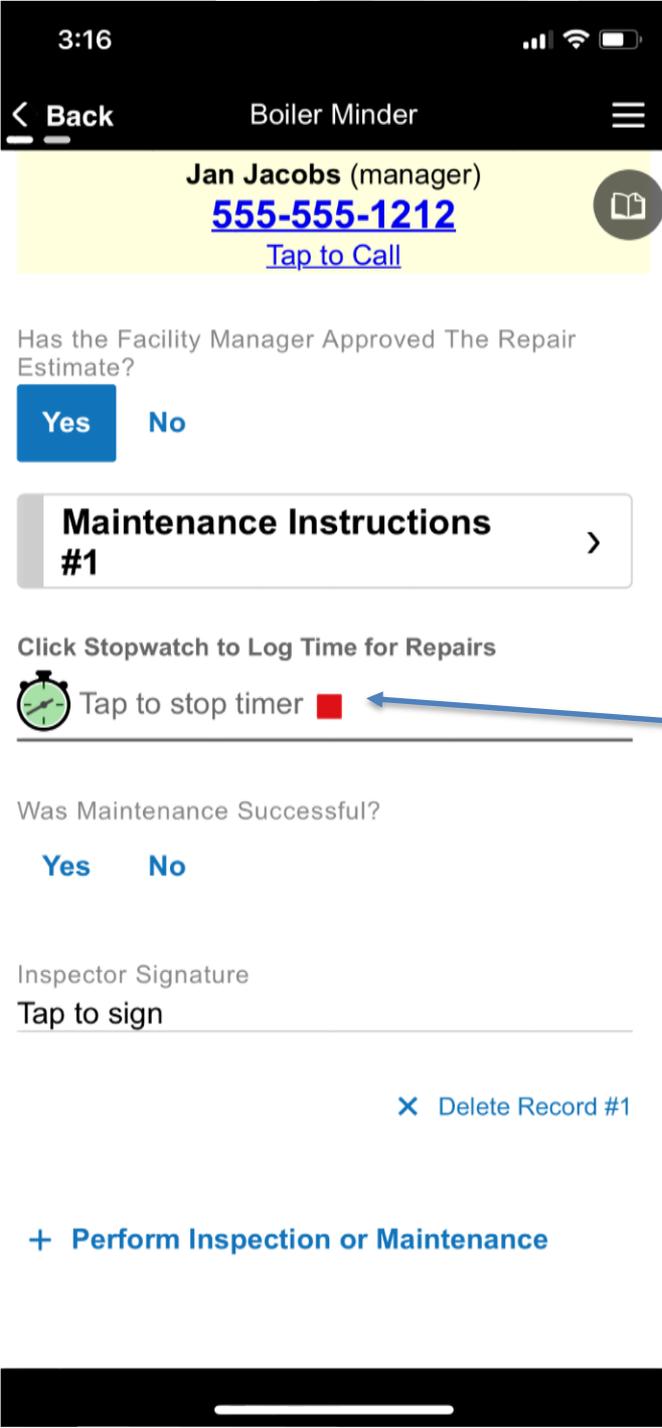
When/If the repair is approved, three new options appear. One shows instructions and guides on how to complete the repairs – another starts the timer to measure the length of the repair and the 3<sup>rd</sup> item indicates if the repair was successful.



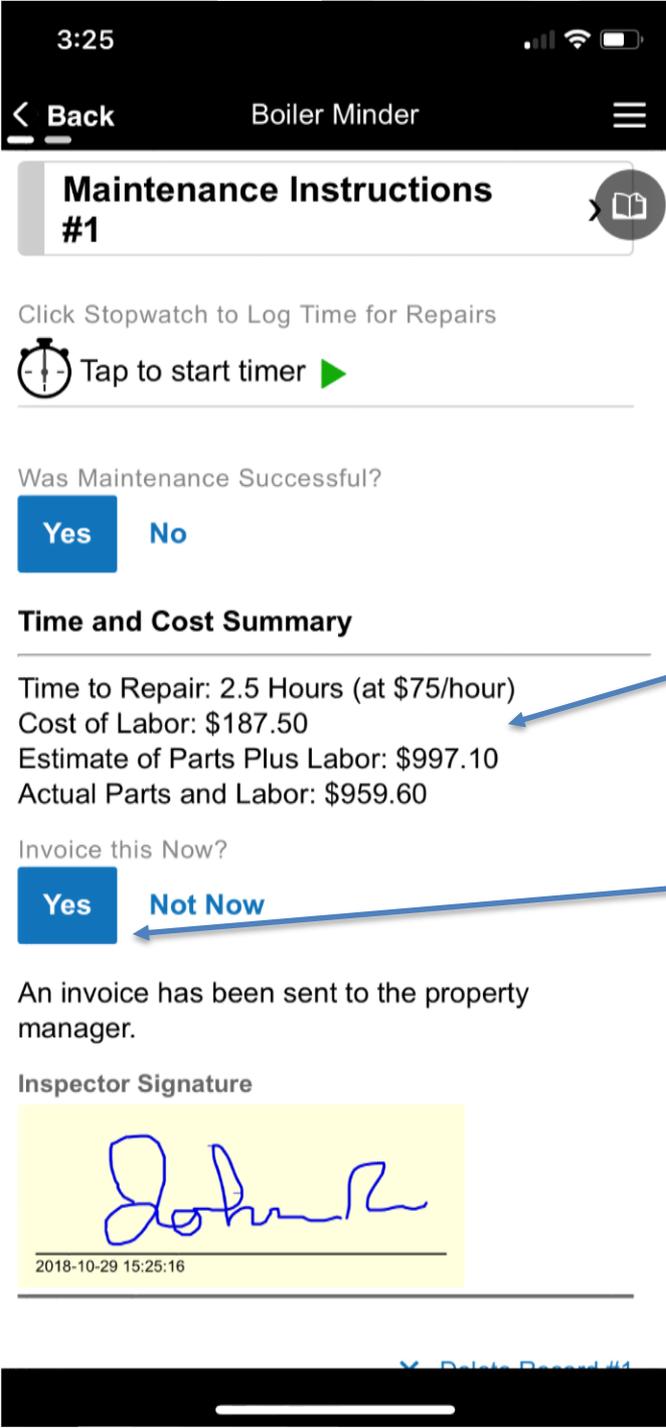
The app knows what repairs need to be performed and shows relevant videos and documents



TransForm lets one store documents, videos, and other data in on device storage. This means that these assets can be accessed even if there is no internet connection. Very large amounts of data can be stored



The application includes a “stop timer” that allows the technician to record the time it took to complete the repair. This data is used later to calculate the invoice.



When a repair is marked as successfully completed, the app calculates a time and cost summary based on the parts used and the time taken.

When the technician clicks yes to the “Invoice This Now” question, a detailed invoice is automatically generated and sent to the client for payment – thus speeding up payment

When the inspection and repairs are complete and an internet connection becomes available, the maintenance, repair, and billing data are all sent to the server. The tech has no paperwork to do, and can now move on to the next job.

# Finally to ensure maximum flexibility, the work done in Alpha TransForm can be extended through the use of Alpha Anywhere

## Business unit non-coders

“Non-coding” Line of Business workers can build mobile apps in Alpha TransForm

**Category 1:**  
Domain experts

## Business unit power users Professional developers

Line of Business “power user” workers can build mobile apps in Alpha TransForm & can leverage the power and control possible with TPL, on device data & the API

**Category 2:**  
Tech Savvy Domain experts

## Professional developers

Professional developers can leverage the work done in Alpha TransForm and can go further with Alpha Anywhere which has virtually unlimited power to build mobile & web apps

**Category 3:**  
Strong development skills  
No domain experts

Alpha is the only company with a platform that spans the requirements of category 1, 2, 3

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