

**The Fast and Easy Way to Safe Machines**

**– at Highest Productivity**

**SIMATIC Safety Integrated Workshop**

**Exercises:**

**1) In a S7-1200F/1500F Safety PLC, what is allowed?**

Only Safety Programming

Safety & Standard Programming

Only Standard Programming

**2)** **How many DIP switches are there on a S7-1200F fail-safe I/O module?**

One

Four

Eight

Zero

**3) Which safety function requires a safety acknowledgement?**

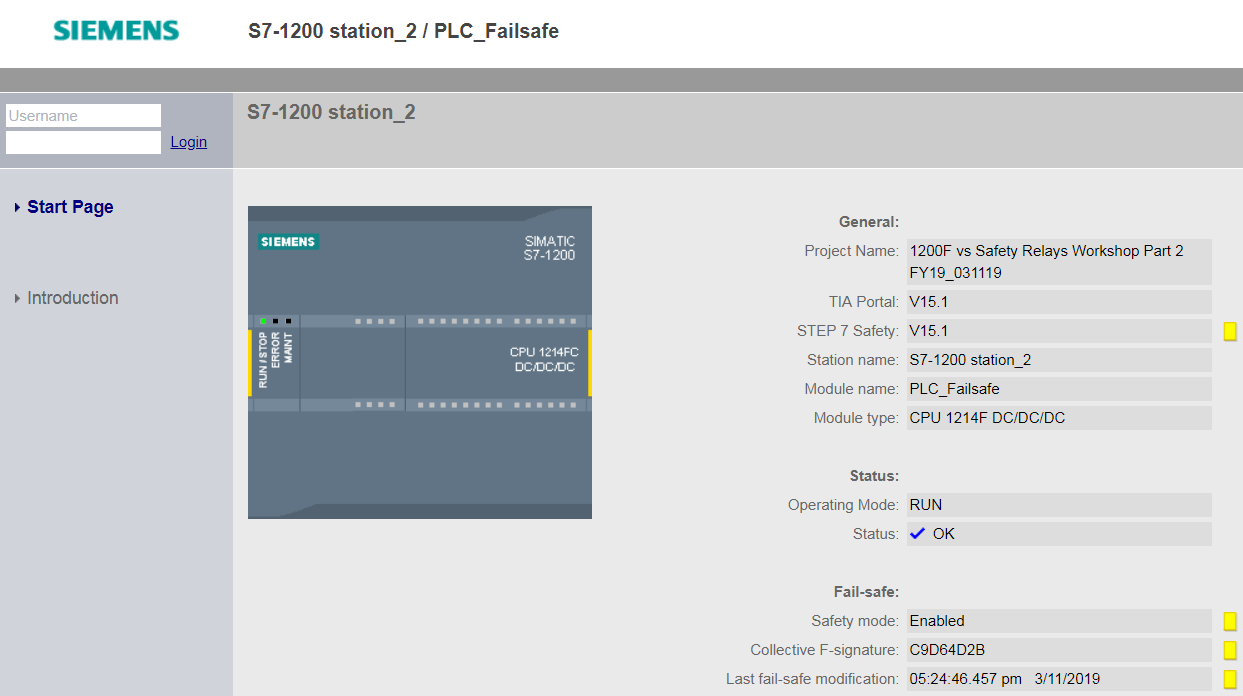
Pressing and releasing an ESTOP

Opening and closing the safety door

All of the above



**4) On the PG (Laptop/Programmer), go to 192.168.0.1 to open the built-in web server of the safety PLC.**



What is the collective F-signature of the program on your demo unit?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

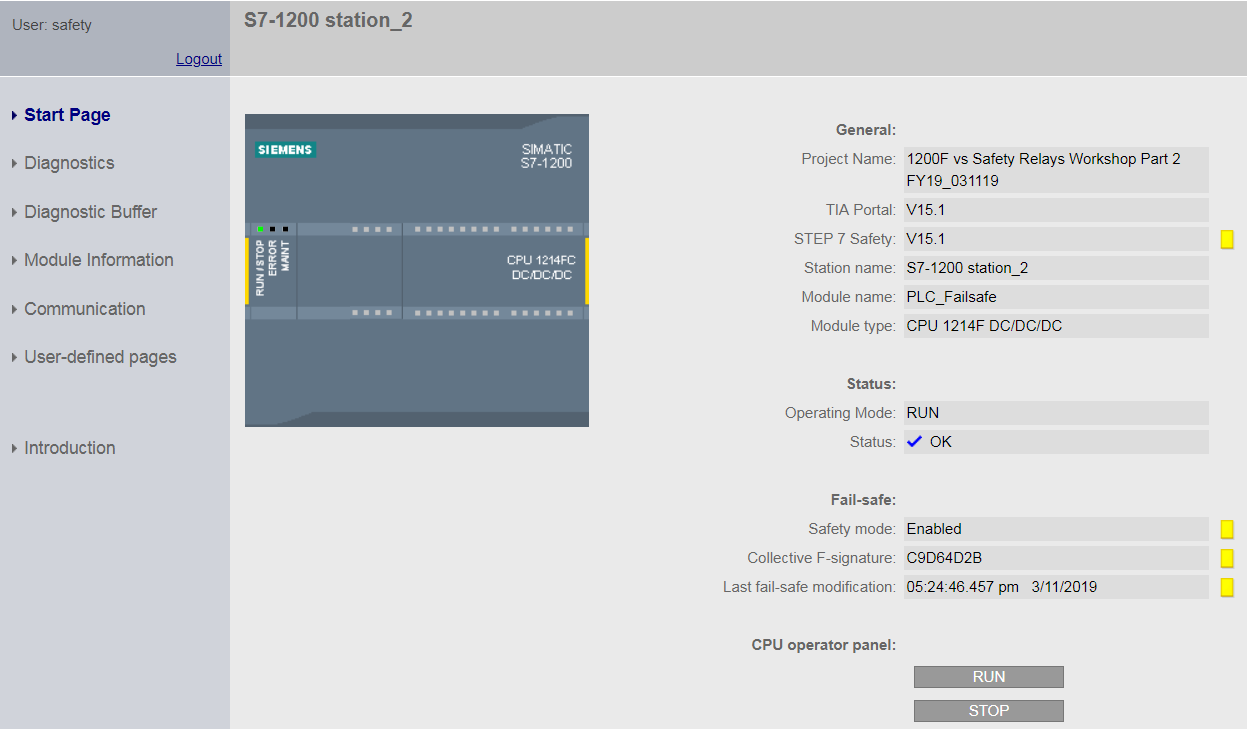
What is the time stamp of the safety program signature of your demo unit?

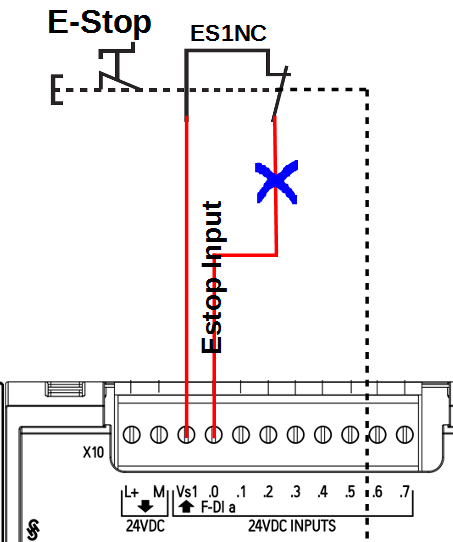
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**5)** **Diagnostics**

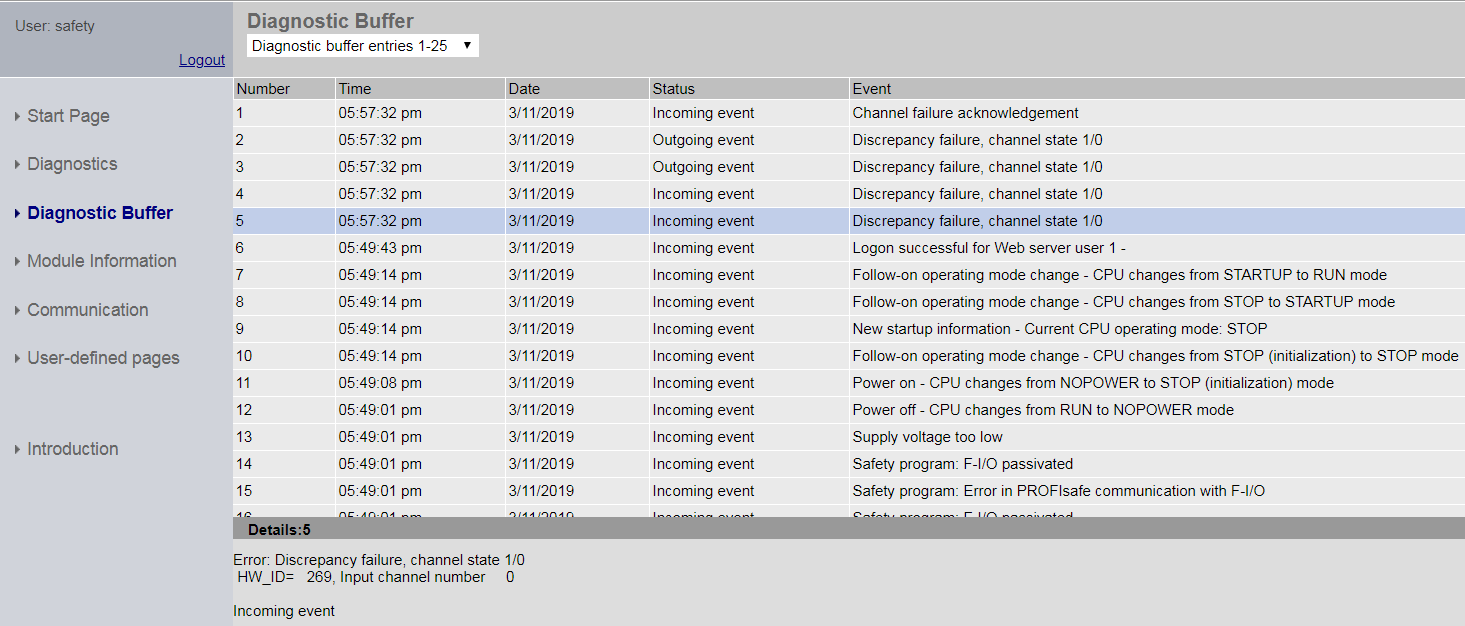
Log in as user “safety”, with password “safety”. Put CPU in STOP mode by press “STOP” button on the start page.

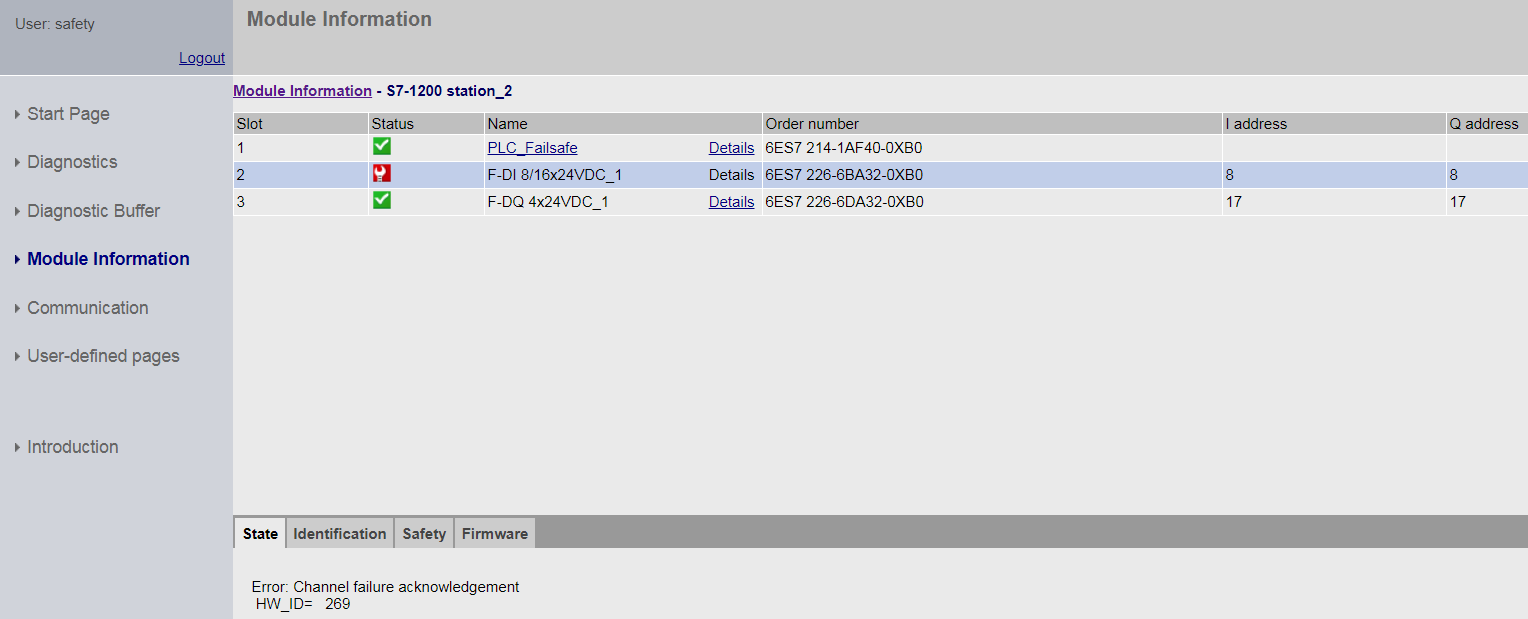


Remove wire highlighted on the left by the blue marker.

* *What is the status of the LED of the F-DI module on the Demo?*
* *Refresh the CPU web page. Under Diagnostic Buffer, what is the time stamp of the first incoming event that indicates the channel failure?*
* *Under Module information, what is the part number and hardware ID of the faulty module?*

Put CPU in RUN mode & press Acknowledge/Reset (blue) button.





**How long does it take to find the root cause of the fault and get the demo back up “running”?**

< 5 seconds

less than 15 seconds

> 30 seconds



**Final Exercise:**

**Answer the following questions to retrieve the Password for “admin”:**

How many characters (including digits) are in the safety signature: **A** = \_\_

How many DIP switches are there on a S7-1200F fail-safe module: **B** = \_\_

What was the slot number of the faulted module: **C** = \_\_

How many wires from the E-Stop did you wire into the S7-1200F fail-safe

Input module: **D** = \_\_

**Your Password for user “admin” is: \_\_ \_\_ \_\_ \_\_**

**A B C D**

**Finishing the final exercise:**

1) Start Internet Explorer

2) Type: 192.168.0.1, logon as “admin” and with the password from exercise.

3) Click on: “Enter”

4) *Receive a gift from the instructors*

