

# Fire OS - Origin

## Subtitle

Redefining Combustion Not as Destruction, but as a Chain State

## 1. Problem

Fires, explosions, and large-scale spread are generally treated as sudden accidents.

However, in reality, combustion is not a phenomenon that occurs abruptly.

Combustion is a chain reaction that inevitably arises when specific conditions are simultaneously satisfied.

In modern society, combustion is primarily treated as an event to be addressed after it occurs.

As a result, there is insufficient intervention in the structural conditions that exist before combustion becomes established.

## 2. Why Existing Systems Fail

Conventional fire prevention and firefighting technologies:

- Depend heavily on human attention and judgment
- Are premised on post-incident response
- Treat combustion as a single, isolated event

As a consequence, combustion is not recognized as a state that emerges through the connection of conditions.

Because of this perspective, the separation, prevention, and reconfiguration of conditions prior to ignition are not treated as design targets.

## 3. Origin Principle

Combustion is sustained only when the following three elements remain simultaneously connected:

- Fuel
- Oxygen
- Heat

If even one of these elements is not connected, combustion cannot occur.

What matters is not combustion itself,

but the structural condition in which all three elements remain continuously connected.

## 4. Principles of Fire OS

Fire OS is designed based on the following principles:

1. Treat combustion conditions as a chain structure
2. Define the connection state of the three elements as the design target
3. Maintain a state in which the conditions for combustion are never simultaneously satisfied

Fire is not stopped.

A state in which combustion cannot be established is designed.

## 5. Conclusion of the Origin

Fire itself is not inherently dangerous.

What is dangerous is an uncontrolled chain structure.

Fire OS does not treat combustion as a one-time event.

It understands combustion as a structure in which states continuously transition.

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