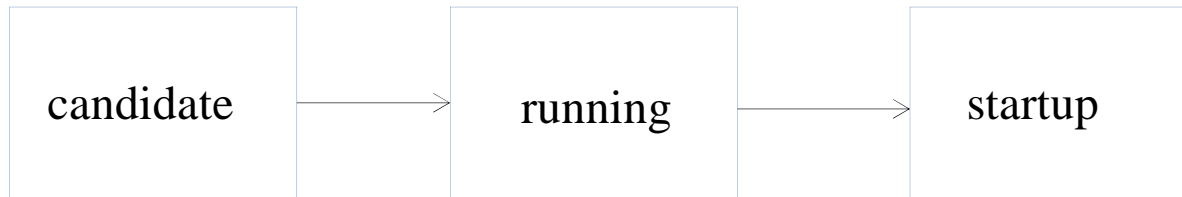


# I2RS Protocol Simple Example

Andy Bierman, Kent Watsen

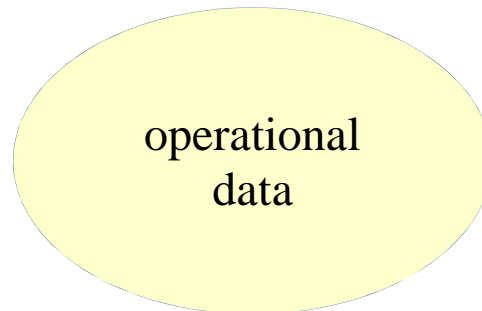
# Current Datastores



config true;

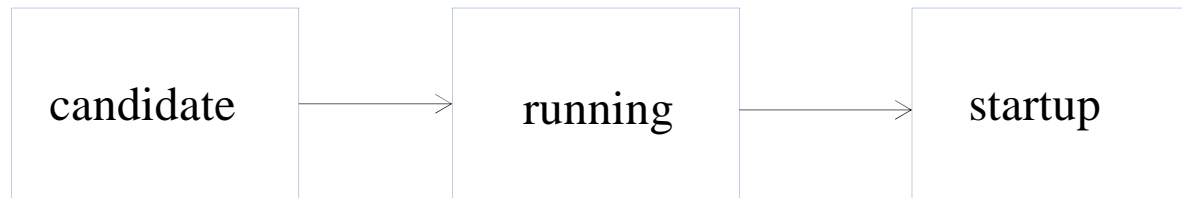
---

config false;



All operational data exists alongside config=true but there is no datastore defined for config=false data nodes

# Current Datastores (Ext. 1)

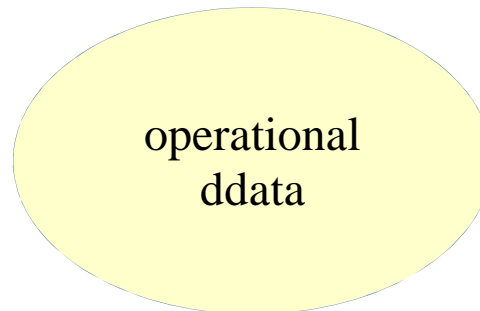


config true;

intended config

config false;

applied config

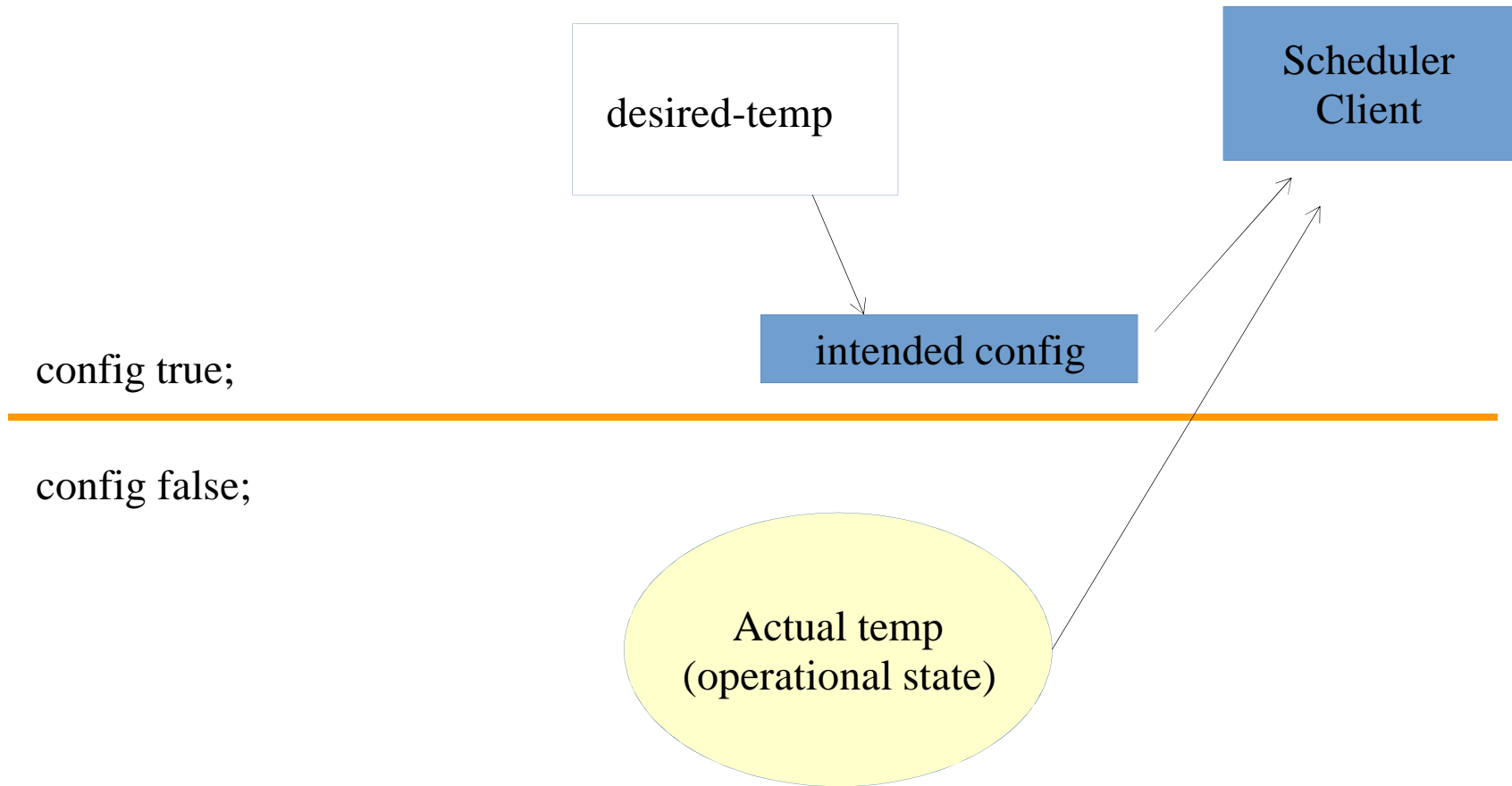


Conceptual intended and actual values are determined by the server as an implementation detail

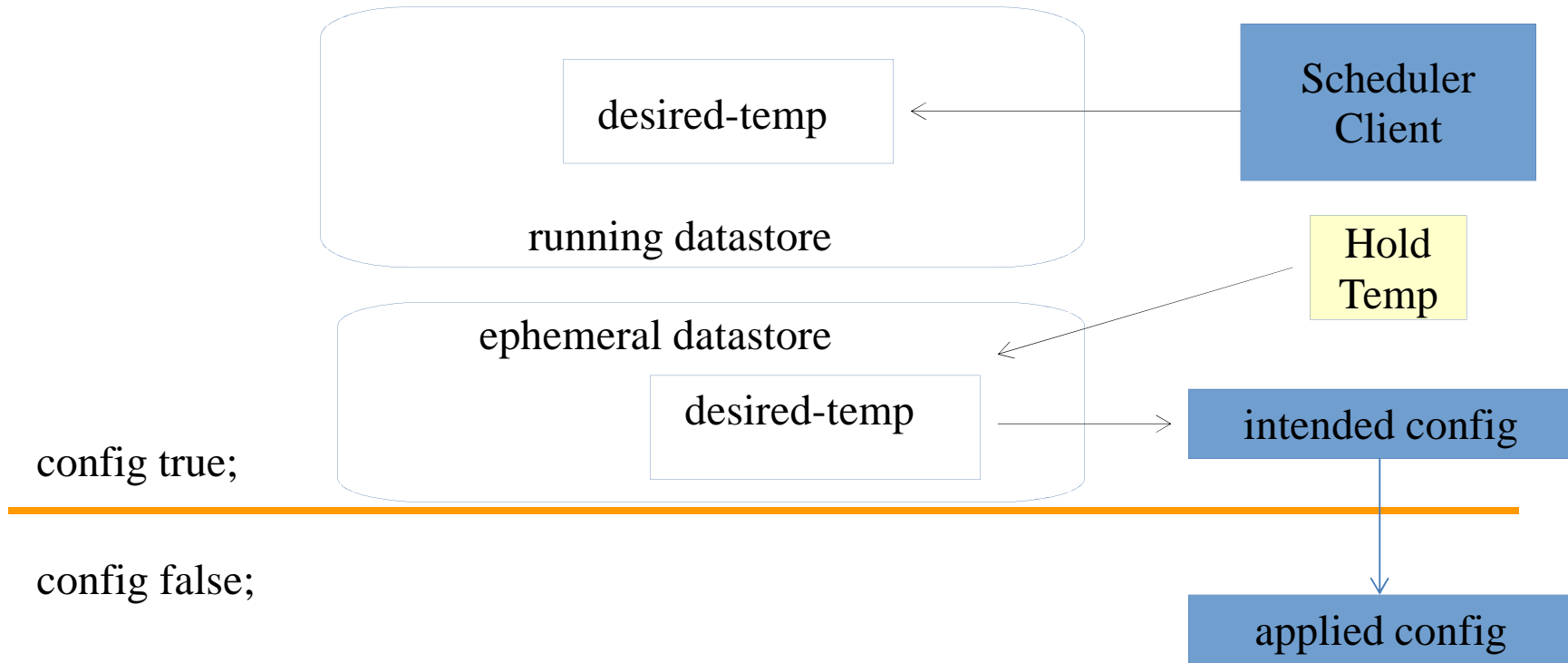
# Simple Thermostat Example

```
module thermostat {  
  ...  
  leaf desired-temp {  
    type int32;  
    units "degrees Celsius";  
    description "The desired temperature";  
  }  
  
  // operational state  
  
  leaf actual-temp {  
    type int32;  
    config false;  
    units "degrees Celsius";  
    description "The measured temperature";  
  }  
}
```

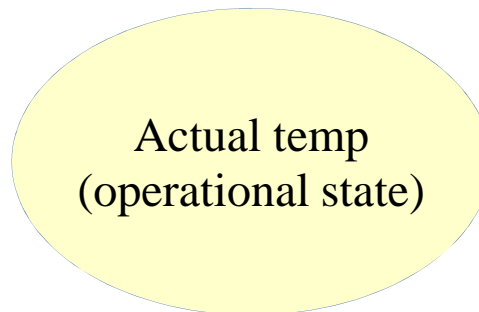
# Thermostat Model



# Thermostat Model + Hold Temp



Schedule is not deleted  
by hold-temp button  
Desired temperature



# RESTCONF Example

## **RESTCONF Running Datastore Edit**

```
PUT /restconf/data/thermostat:desired-temp
```

```
{ "desired-temp": 18 }
```

## **RESTCONF Ephemeral Datastore Edit of config=true**

```
PUT /restconf/data/thermostat:desired-temp?datastore=ephemeral
```

```
{ "desired-temp": 18 }
```

# Simple Thermostat + ephemeral

```
module thermostat {  
  ...  
  leaf desired-temp {  
    type int32;  
    ephemeral true;  
    units "degrees Celsius";  
    description "The desired temperature";  
  }  
}
```

Operational State:

```
  leaf actual-temp {  
    type int32;  
    config false;  
    units "degrees Celsius";  
    description "The measured temperature";  
  }  
}
```