

# AutoDispatch Gateway 2 - AFA Driver

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## Introduction

The AFA driver is a custom driver that is designed to talk to the Australian Fire Authority CAD system. This is a TCP binary protocol.

## Driver file

The AFA dispatch driver's file is AfaDispatchProvider.dll.

## Configuration file settings

appsettings.json has an object section called "AFA" that contains all configuration for this driver. Note that this has changed to be an array of routes, where each route is a complete configuration. This allows multiple connections to different authorities and routing is done by authority ID. The reverse command AUTHID supplies this routing information. The default configuration is shown below, and is fully documented in the file:

```
"AFA": {
  // Routes must be an array (even if an array of one). Each authority that needs alarms dispatched
  // represents a route.
  "routes": [
    {
      // This is the Alarm-system ID of the authority for which this route will be used
      "AuthorityId": "AUTH1",
      // This is the primary address and port of the AFA/CAD system
      "PrimaryRemoteAddress": "127.0.0.1:6000",
      // This is the backup address and port of the AFA/CAD system
      "BackupRemoteAddress": "127.0.0.1:6001",
      // A routine poll message will be sent if no messages are exchanged for this number of minutes
      "RoutinePollMinutes": 1,
      // Specifies the state and brigade identifier for the station
      "RegionId": 22, // 22 New South Wales Bush Fire Services
      // Specifies that station's unique ID
      "StationId": 1,
      // This specifies which event code should be sent to the alarm system when AFA requests an
      // alarm query. Default value is *AQ. The alarm ID will be the AFA Address ID.
      "AlarmQueryEventCode": "*AQ",
      // This maps incoming event codes, areas, and zones to alarm types and alarm states in AFA/CAD
      // Each entry in the list represents a unique combination of event code, area, and zone
      // Area and zone may each be set to indicate a wildcard (match any area or match any zone)
      // If a signal from the alarm software doesn't match any entry in this list, an Alarm
      // Type of 6900 will be used and an Alarm State of 0 will be used.
      "EventCodeMap": [
        {
          "EventCode": "FA",
          "Area": "*",
          "Zone": "1",
          "AlarmType": 6900,
          "AlarmState": 0
        },
      ],
    }
  ],
}
```

```

{
  "EventCode": "WA",
  "Area": "*",
  "Zone": "1",
  "AlarmType": 8200,
  "AlarmState": 0
},
{
  "EventCode": "$N1",
  "Area": "*",
  "Zone": "11",
  "AlarmType": 1100,
  "AlarmState": 1
}
],
{
  // This is the Alarm-system ID of the authority for which this route will be used
  "AuthorityId": "AUTH2",
  // This is the primary address and port of the AFA/CAD system
  "PrimaryRemoteAddress": "127.0.0.1:6002",
  // This is the backup address and port of the AFA/CAD system
  "BackupRemoteAddress": "127.0.0.1:6003",
  // A routine poll message will be sent if no messages are exchanged for this number of minutes
  "RoutinePollMinutes": 1,
  // Specifies the state and brigade identifier for the station
  "RegionId": 22, // 22 New South Wales Bush Fire Services
  // Specifies that station's unique ID
  "StationId": 1,
  // This specifies which event code should be sent to the alarm system when AFA requests an
  // alarm query. Default value is *AQ. The alarm ID will be the AFA Address ID.
  "AlarmQueryEventCode": "*AQ",
  // This maps incoming event codes, areas, and zones to alarm types and alarm states in AFA/CAD
  // Each entry in the list represents a unique combination of event code, area, and zone
  // Area and zone may each be set to indicate a wildcard (match any area or match any zone)
  // If a signal from the alarm software doesn't match any entry in this list, an Alarm
  // Type of 6900 will be used and an Alarm State of 0 will be used.
  "EventCodeMap": [
    {
      "EventCode": "FA",
      "Area": "*",
      "Zone": "1",
      "AlarmType": 6900,
      "AlarmState": 0
    },
    {
      "EventCode": "WA",
      "Area": "*",
      "Zone": "1",
      "AlarmType": 8200,
      "AlarmState": 0
    },
    {
      "EventCode": "$N1",
      "Area": "*",
      "Zone": "11",
      "AlarmType": 1100,
      "AlarmState": 1
    }
  ]
}

```

```
]
}
]
}
```

## Reverse commands

The AFA driver only supports the new alarm (ALRM) reverse command. The parameters for this command are listed below:

### ALRM

Field Type	Data Type	Label	DB Value	Default
Database	Text	AREA	Original Area	
Database	Text	ZONE	Original Zone	
Database	Text	TXID	Transmitter ID	
Database	Text	EVCODE	Event Code	
Database	Text	TIME	Event Time	
Database	Text	CUST	Customer Name	
Database	Text	ADDR	Full Address	
Database	Text	CITY	City Name	
Database	Text	POST	Post Code	
Database	Text	AUTHID	Contact Point	
User Provided	Text	PROVIDERID		AFA