

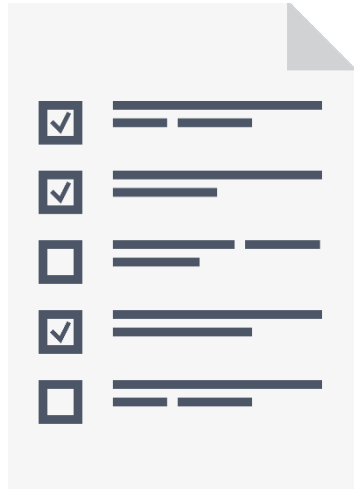
Accelerating Development and Better Monitoring



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Overview



ServiceControl



ServicePulse

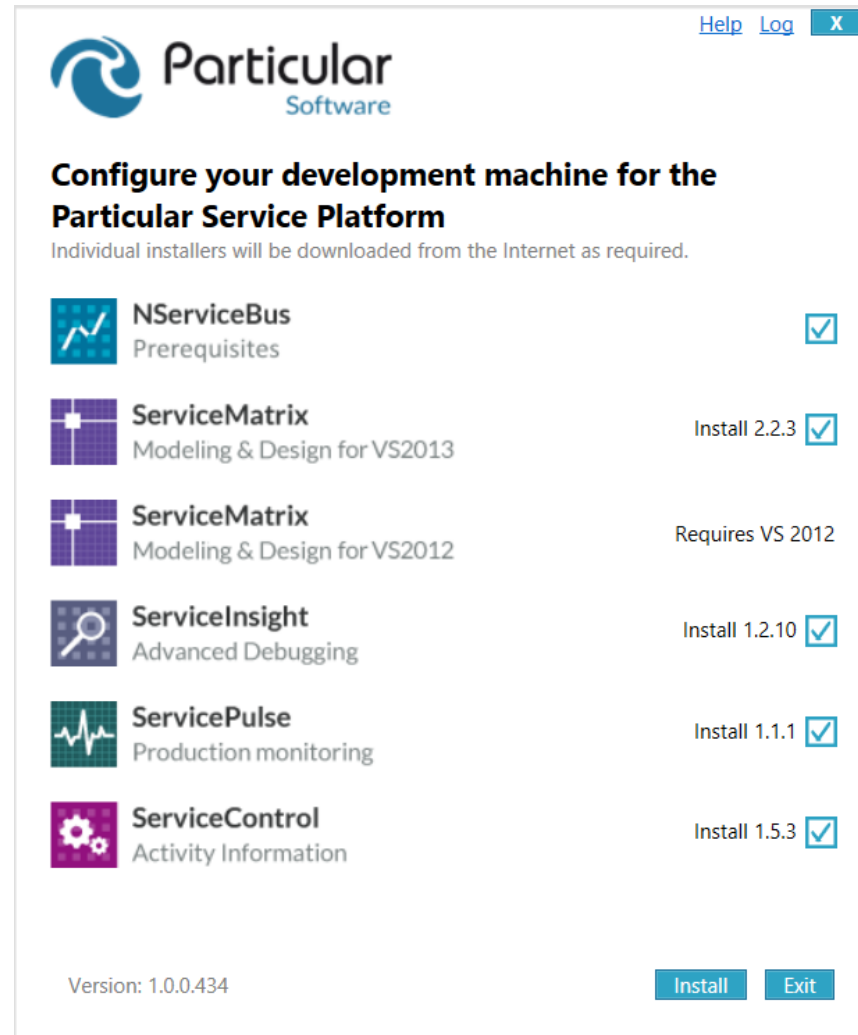


ServiceInsight



ServiceMatrix

Particular Platform



ServiceControl

Gathers information about messages and endpoints

Can also do custom checks

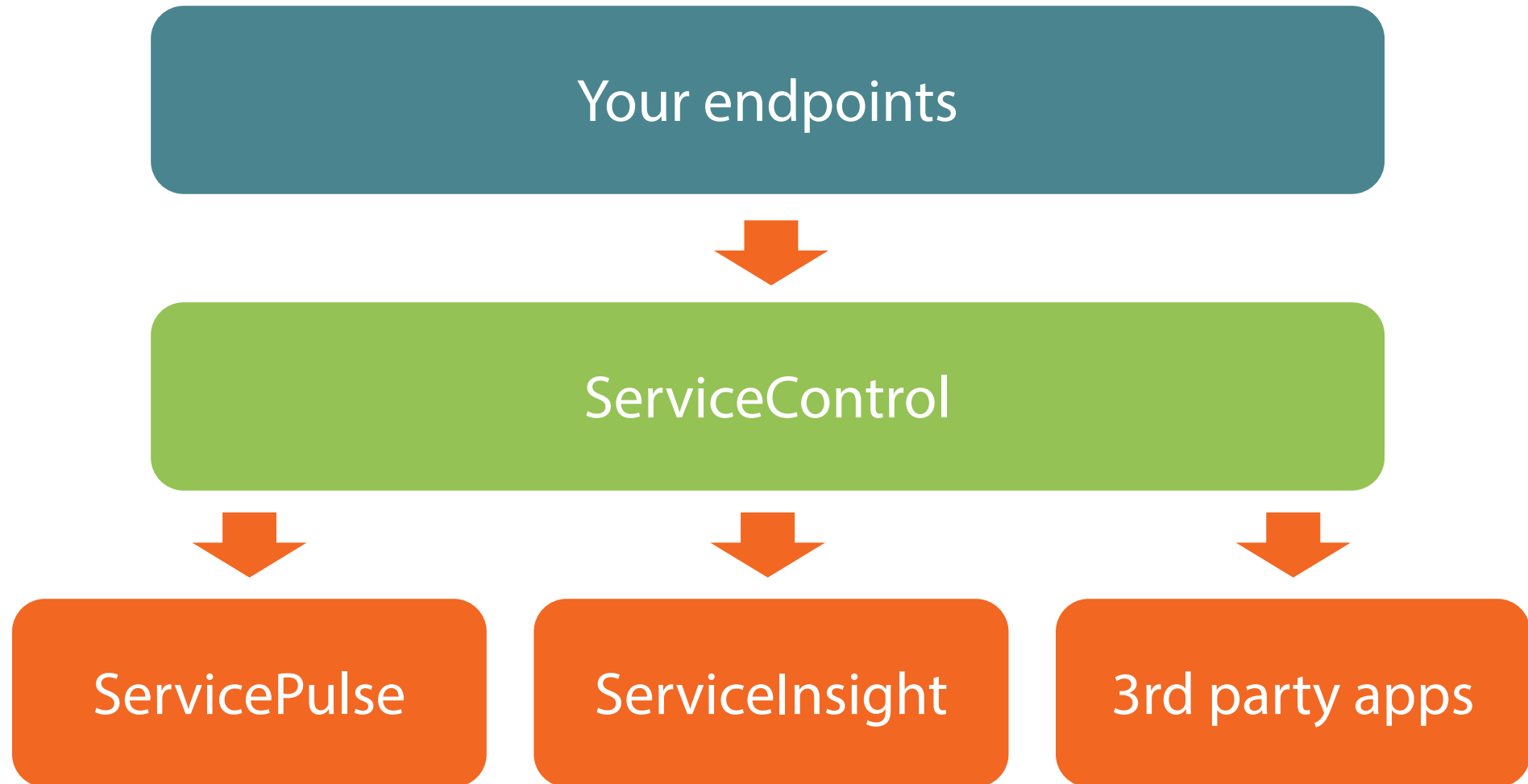
Embedded RavenDB

Exposes data via REST API

Endpoint



The Role of ServiceControl



http://localhost:33333/api

```
{  
  "endpoints_error_url": "http://localhost:33333/api  
/endpoints/{name}/errors/{?page,per_page,direction,sort}"  
}
```

ServiceControl

Audit and error queues

Data is retained for 30 days (default)

Configuration file

Default transport is MSMQ



Demo: Responding to ServiceControl Events

FIRE ON WHEELS

Notification if a message goes to the error queue

ServicePulse

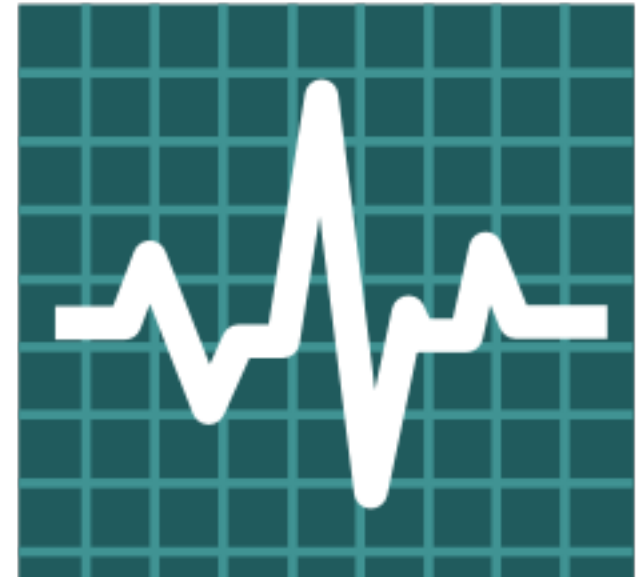
Web application intended for live monitoring

Intended for non-techies


Messages in error queue

Heartbeat

Custom checks



http://localhost:9090

 **ServicePulse**
In Particular

Dashboard

Endpoints Overview

Failed Messages

Custom Checks


Configuration

Dashboard

Indicators


Latest events

9




Endpoints

2



Failed Messages



Custom Checks

Exception of type 'System.Exception' was thrown.

an hour ago

error

MessageFailures

/message/86a10806-ef0c-0c71-95f3-bafd8ec706d1
/endpoint/FireOnWheels.Dispatch

New 'Particular.ServiceControl' endpoint detected at 'RMGXPS152014'. In order for this endpoint to be monitored the plugin needs to be installed.

an hour ago

info

EndpointControl

/endpoint/Particular.ServiceControl
/host/d5202274-6661-d3d1-1e6c-f3d35267ed71

New 'FireOnWheels.Monitoring' endpoint detected at 'RMGXPS152014'. In order for this endpoint to be monitored the plugin needs to be installed.

an hour ago

info

EndpointControl

/endpoint/FireOnWheels.Monitoring
/host/d453770e-8232-210b-228a-2b24aad10644

Failed Messages

Total number of messages in the error queue: 2

Summary statistics

Hosts	Endpoints	Message Types
RMGXPS152014 (2)	FireOnWheels.Dispatch (2)	FireOnWheels.Messages.Dispatch... (2)

Showing 2 message(s)

Retry 0 selected

Retry all messages

Archive 0 selected

Sort by ▾

☐

Show stacktrace

Show headers

Show message body

Copy Id to clipboard

Open in ServiceInsight


FireOnWheels.Messages.DispatchOrderCommand

an hour ago

in FireOnWheels.Dispatch on

Exception of type 'System.Exception' was thrown.

http://localhost:9090

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Failed Messages



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Custom Checks

1. Add class to service
2. Add NuGet package
3. Derive from CustomCheck or PeriodicCheck
4. Implement actual check in PerformCheck



Implementing a Custom Check

```
public class RestServiceHealthCustomCheck: PeriodicCheck
{
    public RestServiceHealthCustomCheck():
        base("RestServiceHealth", "RestService",
            TimeSpan.FromMinutes(5)) {}

    public override CheckResult PerformCheck()
    {
        //Ping service
        return CheckResult.Failed("REST service not reachable");
    }
}
```

Custom Check in ServicePulse

 Showing 1 failed custom check(s)

RestServiceHealth	RestService	a few seconds ago
<div>REST service not reachable</div>		in FireOnWheels.Monitoring on RMGXPS152014
		 Mute

ServiceInsight

Desktop application to visualize message flows

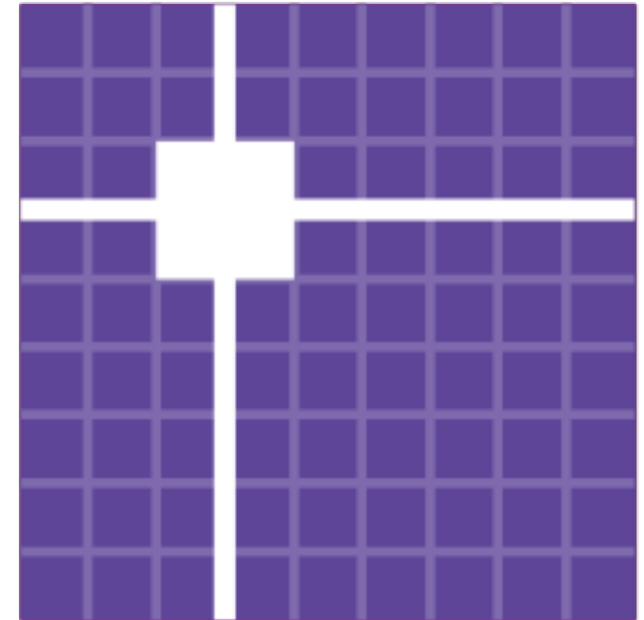
Intended for developers and architects



ServiceMatrix

Visual Studio plugin

Design your systems in a graphical way on conceptual level of endpoints and services



Summary



ServiceControl gathers messages and exposes data with an API

ServicePulse is a dashboard to do monitoring

ServiceInsight shows you messages and their relationships

ServiceMatrix lets you create a (micro)service architecture visually