

# Services and Instances

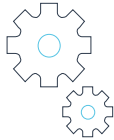
## Logic Service



### Overview

The [Logic Service](#) is designed to run continuously, monitoring automation inputs in real-time, and processing defined business rules to record production information to the TrakSYS database.

- Connects to OPC data sources.
- Monitors and executes logic on a second-by-second basis.
- Must be restarted to load and process new configuration.



### Instancing

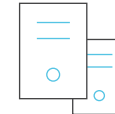
In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Load Distribution

In very [large configurations](#), the quantity of processing may start to impact the ability of the [Logic Service](#) to reliably maintain near real-time scanning.

#### Functional Isolation

To [minimize data recording interruptions](#) when new configuration is added to a portion of the implementation, different areas of production can be assigned to different [Logic Services](#).



### Distribution

In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Separate Server

[Logic Services](#) can be deployed to dedicated servers when targeting [Load Distribution](#).

#### Same Server

Multiple [Logic Services](#) can be deployed to the same server when targeting [Functional Isolation](#).

# Services and Instances

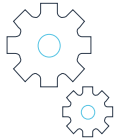
## Historian Service



### Overview

The [Historian Service](#) is designed to run continuously, monitoring automation inputs and recording time-series values to the Historian TrakSYS database.

- Connects to OPC data sources.
- Monitors and records Tag changes based on configured thresholds.
- Must be restarted to load and process new Tag configuration.



### Instancing

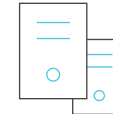
In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Load Distribution

In very [large configurations](#), the quantity of processing may start to impact the ability of the [Historian Service](#) to reliably maintain near real-time scanning.

#### Functional Isolation

To [minimize data recording interruptions](#) when new configuration is added to a portion of the implementation, different areas of production can be assigned to different [Historian Services](#).



### Distribution

In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Separate Server

[Historian Services](#) can be deployed to dedicated servers when targeting [Load Distribution](#).

#### Same Server

Multiple [Historian Services](#) can be deployed to the same server when targeting [Functional Isolation](#).

# Services and Instances

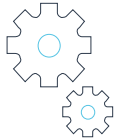
## Workflow Service



### Overview

The [Workflow Service](#) is designed to run continuously, executing and advancing Workflow Process Definitions.

- Connects to OPC data sources.
- Must be restarted to load and execute new Process Definition versions.
- Restarting the service **DOES NOT** negatively effect Processes that are in-progress.

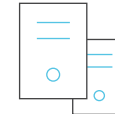


### Instancing

In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Load Distribution

In very [large configurations](#), the quantity of processing may start to impact the ability of the [Workflow Service](#) to reliably maintain near real-time scanning.



### Distribution

In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Separate Server

[Historian](#) Services can be deployed to dedicated servers when targeting [Load Distribution](#).

# Services and Instances

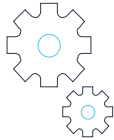
## Data Management Service



### Overview

The [Data Management Service](#) is designed to run and manage several independent [Modules](#), each of which execute periodically or on-demand as triggered from within TrakSYS.

- Typically connects to other business systems via APIs, database connections or file manipulation.
- Modules must individually be restarted to load and execute changes.
- The service [DOES NOT](#) need to be restarted for functional reasons.

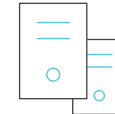


### Instancing

In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Load Distribution

When the quantity and workload of [Modules is very high](#), the quantity of processing may start to impact the ability of the [Data Management Service](#) to reliably maintain near real-time scanning.



### Distribution

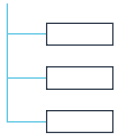
In some cases, it may be desirable to configure and deploy multiple instances of the service...

#### Separate Server

[Data Management](#) Services can be deployed to dedicated servers when targeting [Load Distribution](#).

# Services and Instances

## Same-Server Instancing



### Install and Configure

While the TrakSYS [Installation Manager](#) can be used to install a single (first) instance of a Service, installing subsequent instances on the same server requires using a [command line](#) call.

In addition, the [Host](#) property of the configured Service must include the instance name used during the command line install.



### Steps [ Example for Logic Service ]

1. Execute Command Line (Run as Administrator). Specify an [InstanceName](#).

```
C:\>"C:\Program Files (x86)\Parsec\TrakSYS\LogicManagerService.exe" -install Instance2
```

#### Services

Installed Services

Service	Status
Logic Service	Running
Historian Service	Running
Data Management Service	Not Installed
Workflow Service	Stopped
Maintenance Service	Running
TrakSYS Logic Service [Instance2]	Stopped

3. Configure the new Instance using Host = [SERVERNAME\InstanceName](#).

2. Verify the new Instance appears in [Installation Manager](#).

#### Logic Service

##### General

##### Advanced

##### Notes

##### Name

LS 2

##### Computer Name

SERVERNAME\Instance2

##### Scan (Milliseconds)

1000