Workflow
Service

TrakSYS™ Database

Configuration and Data Storage

TrakSYS™ Web

User Interfaces
Operations
Business Intelligence
Configuration

Logic Service

Real-Time
Execution and Collection

Historian Service

Process Variable
Tag Historian

Workflow Service

Decision Control
Orchestration
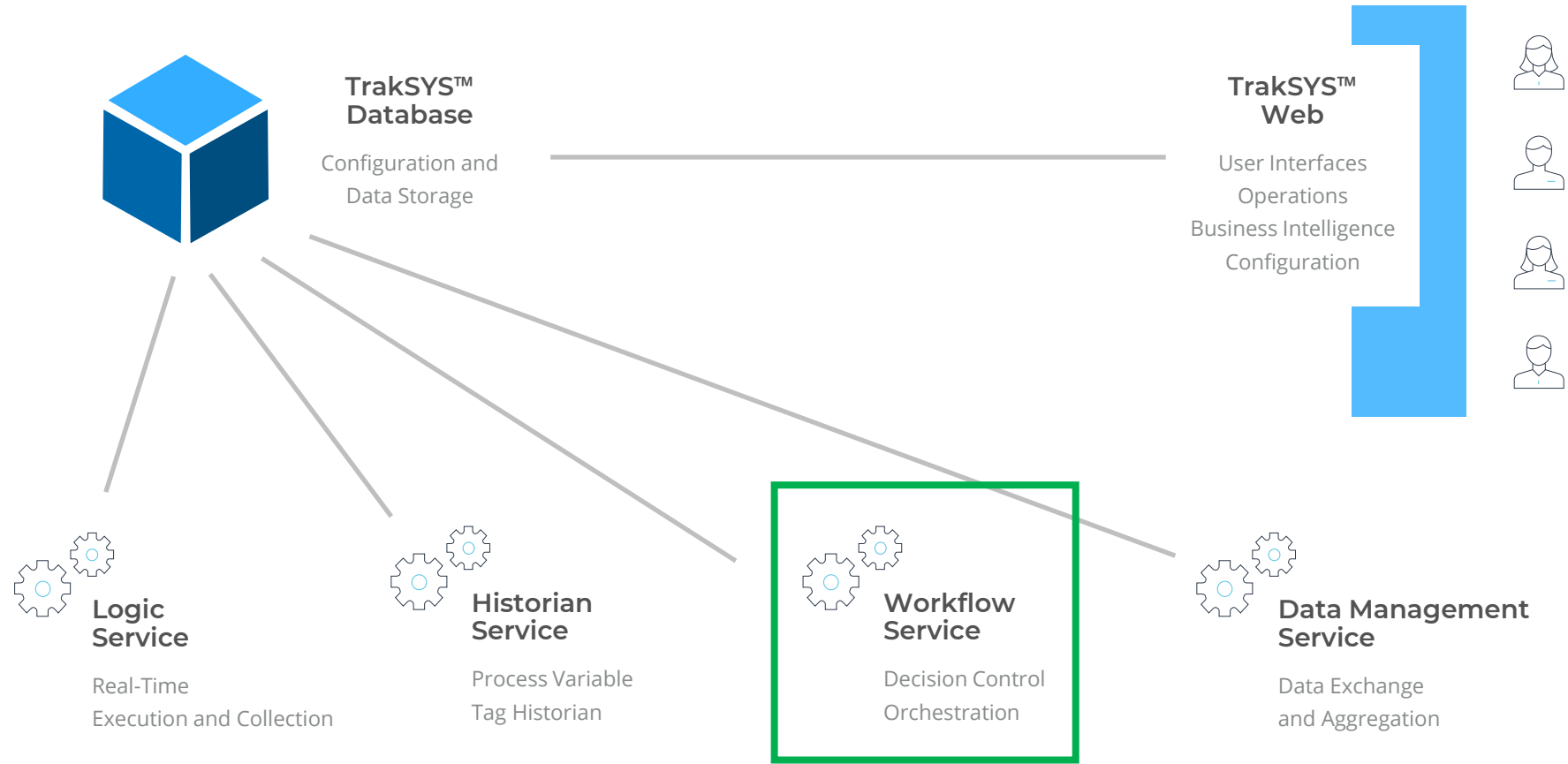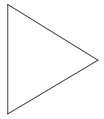
Data Management Service

Data Exchange
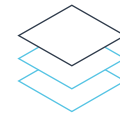and Aggregation

Workflow
Service

Executes Processes
Responsible for running instances of
Process Definitions over long periods.

Stateless
Designed to withstand restarts and
outages without disrupting business logic.

Multi-Instanceable
Multiple instances possible for load
balancing or isolation of critical processes.

Instance A
Critical Processes
Minimize
Interruptions

Instance B
Normal Processes
Interruption Tolerant

Instance C
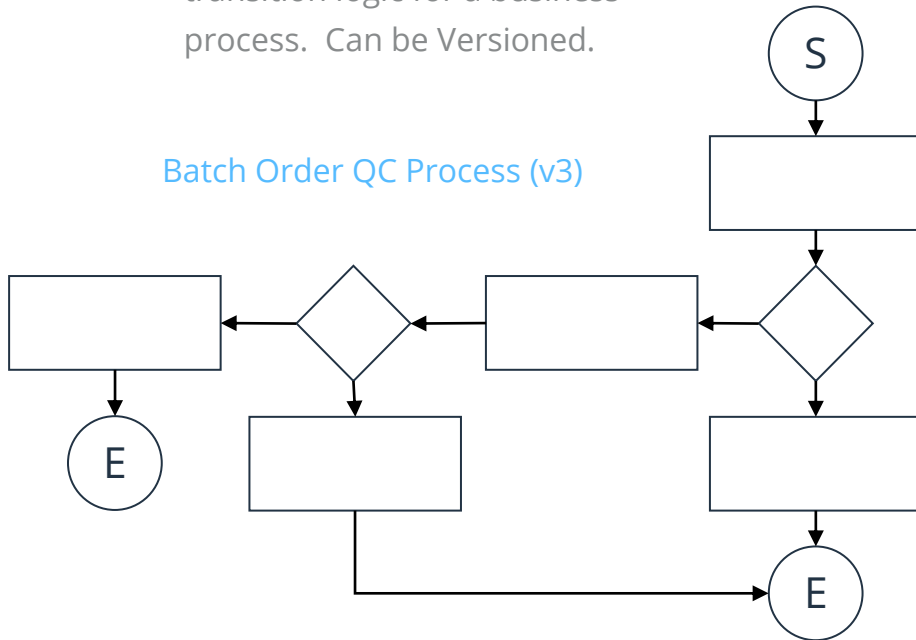Trial Processes
Volatility Expected

Process Definitions

Process Definition
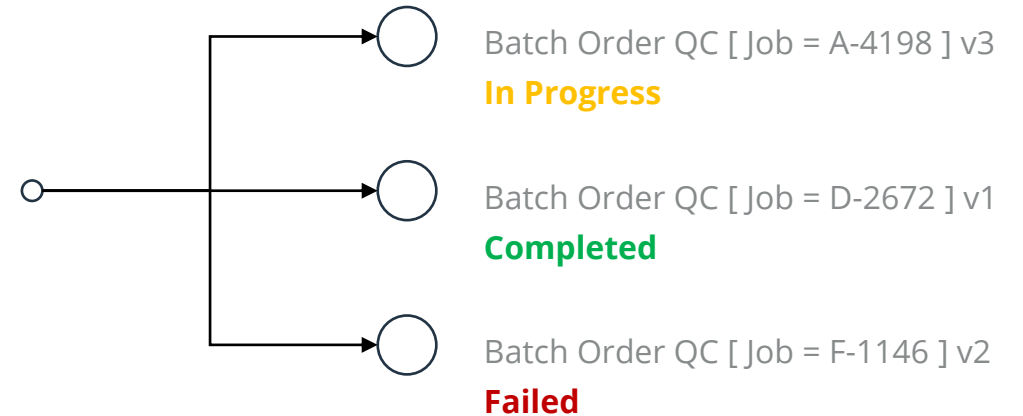
Defines the steps and transition logic for a business process. Can be Versioned.

Batch Order QC Process (v3)

Processes

Instances of a Process Definition. Different Versions of the same Process Definitions can run simultaneously.
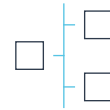
Batch Order QC [Job = A-4198] v3
In Progress

Batch Order QC [Job = D-2672] v1
Completed

Batch Order QC [Job = F-1146] v2
Failed

Process Steps

Process Step

A single step in a Process Definition (business process).

Process Step Types

Standard / Common Function Library
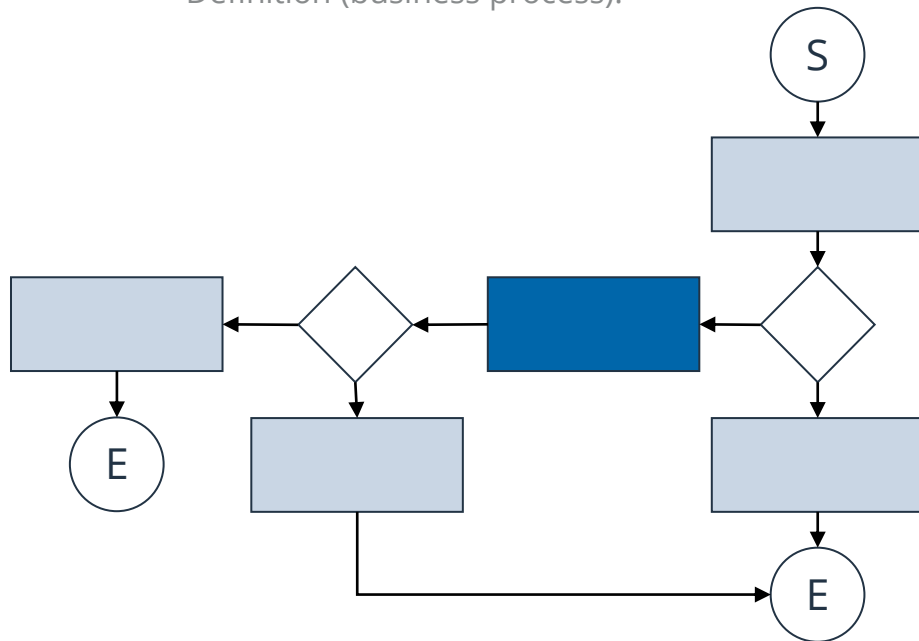
Examples...

Process	**Job**	**Task**	**Boolean**
Start	Start	Create	AND
ExecuteSync	End	WaitForComplete	OR
ExecuteAsync	WaitForNextStart	**Wait**	**Math**
SendMessage	WaitForNextEnd	Duration	Operation
Tag	**Entity**	ForMessage	**Merge**
SetByName	GetProperty	**Notification**	Sync
GetValue	Insert/Update	Send	Struct. Sync
WaitForValue	Delete		Struct. Discriminator

Workflow
Visualization

1. Workflows Related to Manufacturing Entities

2. Real-Time view of a Specific Process Execution

3. Steps that have already been Executed

4. Steps that are currently Executing

5. Steps that have not yet been Executed

Entry

Product Processes
Clear   Import

Drispolin 500 [PE-DRIS.500]
8326befc-2c5f-410d-8b9a-cc5ec6af97dd

Prosporim 200 [PE-PROS.200]
e44a9792-a6f1-4310-ae23-d2664cde139a

Valifin 500 [PE-VALI.500]
e51b6233-708e-4cfe-9212-e4c19e5d6720

Workflow for Prosporim 200

Start → Load Product Data (ETS.Entity.GetValue)

Product Entry

Notify Product Entry (ETS.Notification.Send)

Notify Entry Late (ETS.Notification.Send) ← Timeout = 1 — Wait for Entry Complete (ETS.Sql.WaitFor)

Product Entry
These steps notify a specific set of Users that a new Product has arrived from ERP and requires to additional configuration.

Product Review

Notify Product Review (ETS.Notification.Send)

Notify Review Late (ETS.Notification.Send) ← Timeout = 1 — Wait for Review Complete (ETS.Sql.WaitFor)

Product Review
These steps notify a specific set of Users that a Product has been updated but a Review is required before enabling for production.

OutValue = 10 → Enable Product (ETS.Entity.Update) → End

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