Business Logic

Cordys BOP 4.1 Fundamentals

CORDYS

Agenda

CORDYS

- Event Driven Architecture
- Business Rules
- Business Rules in Cordys

Event Driven Architecture

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- Event Driven Architecture:
  - Events Triggers Action
- Periodic
  - Periodic check if action is needed

- Event Driven Architecture
  - More Efficient
  - More Agile
  - More Chaotic
  - Less Predictable

Quality of Business Service

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- Quality of Business Service:
  - The ability to react fast and consistent on business events

- Business Events examples:
  - New Quote
  - New Customer
  - Order is Cancelled
  - Price Change
  - Stock Change
  - Transportation of supplies starts
  - ….

Business Event Example

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Quote becomes order

- Which activities have to be executed?
  - Order Material
  - Plan Resources
  - Send Invoice?
  - Celebrate?
- Which systems are involved?
- Which people are involved?

Business Process Model

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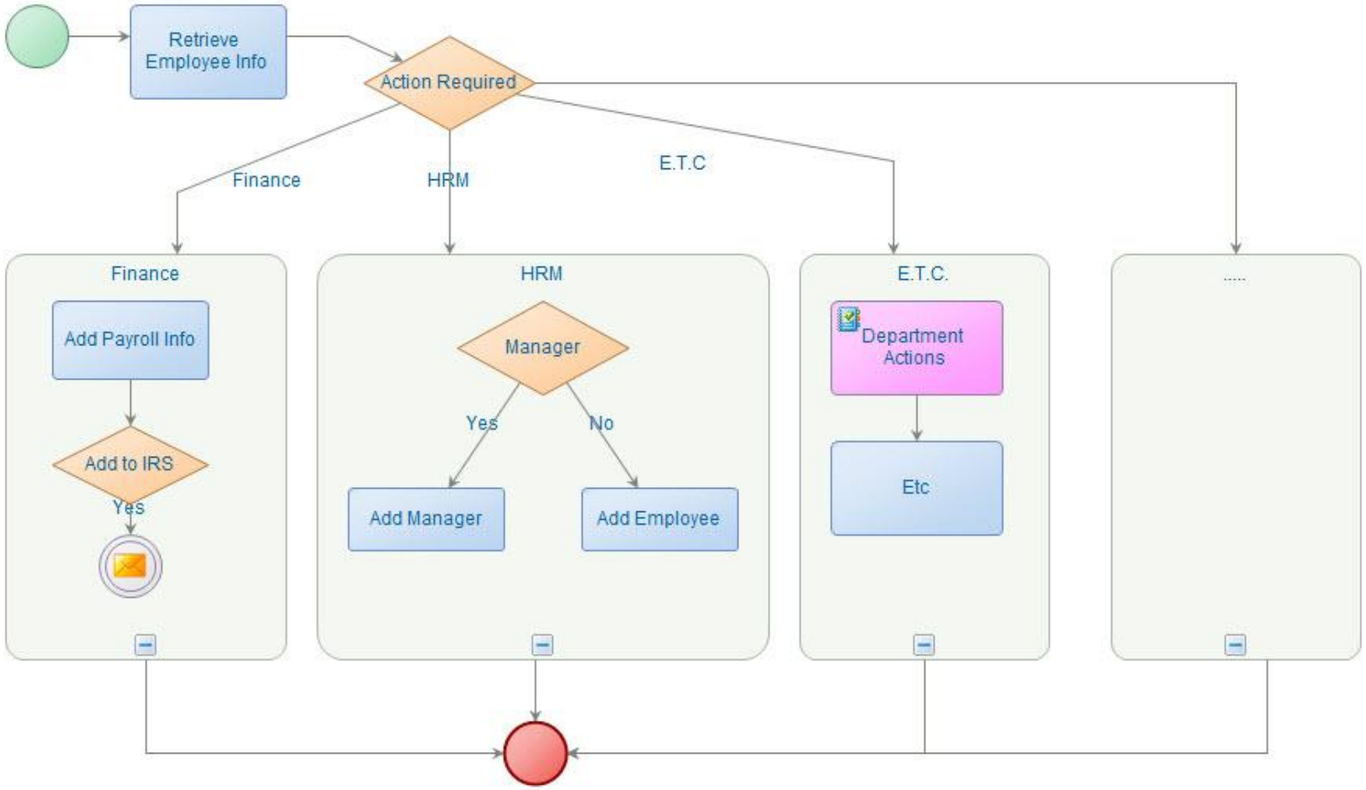
- Due to change in a Business Object (employee, order, customer, product etc.) a lot of different processes have to be executed.

- New Employee Hire BPM



Business Process Model Continued

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- Drawback
  - Process becomes huge
  - If one activity changes the whole process has to be rebuilt
  - Processes are made over boundaries of domains (departments and companies)
  - Process has to be changed if (sub) processes are added

- Solution
  - Use Sub Processes (decouple Processes)
  - Use Business Rules
    - Trigger Processes
    - Trigger Services
    - …..

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- Business Rules in Cordys

Business Rules

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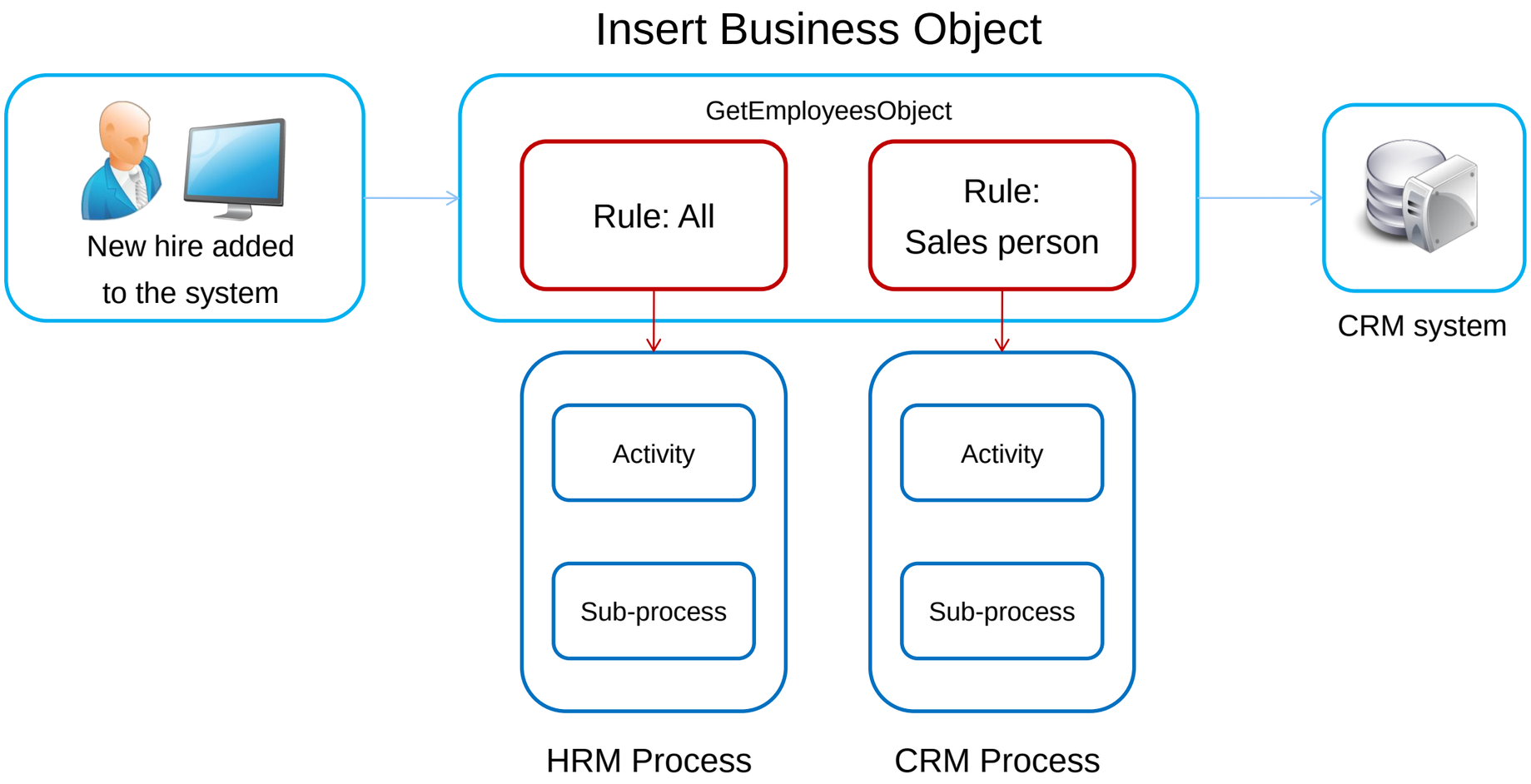

Rules Application

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- Rules Support an Event Driven Architecture
  - More flexibility
  - Separation of concerns
  - Better maintainable
- Decision Logic is separated from BPMs
- Decision Logic (re)used in BPMs
- Business Logic is separated from Application Logic

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Rules in Cordys

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- Implementation
  - Decision table
  - Rule
- Usages
  - Defined on WS-AppServer Package XML Schema,
    - to trigger actions on Insert, Update and/or Delete Transactions
  - Defined on XML Schema
    - For decision table activity in a business process model

Rules on WS-AppServer Objects

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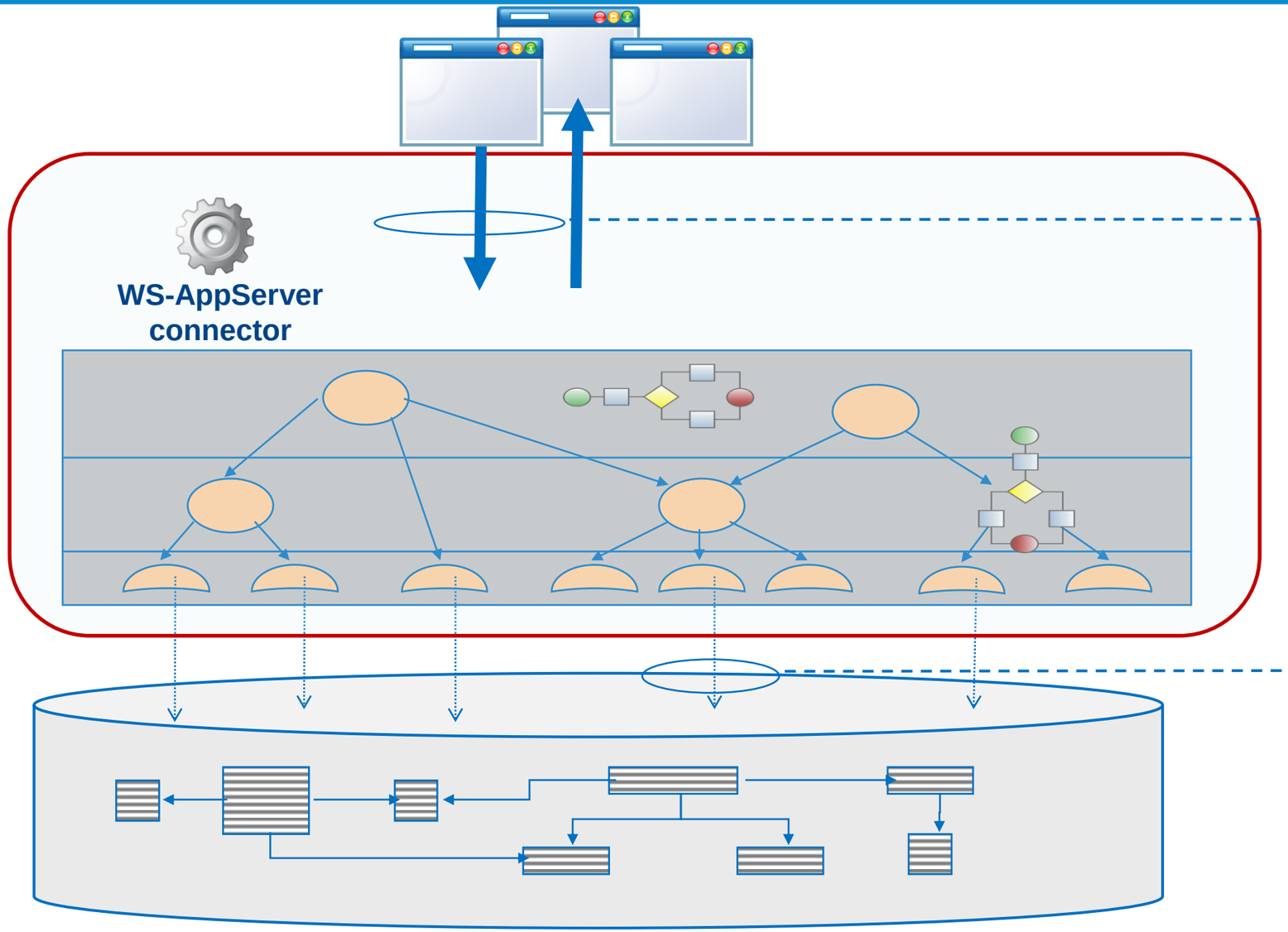

- Presentation Logic
- Rules Logic (business)
- WS-AppServer Logic
  - Constraint
  - Access
  - Business
- Rules Logic (constraint)
- Database Logic

Decision Table

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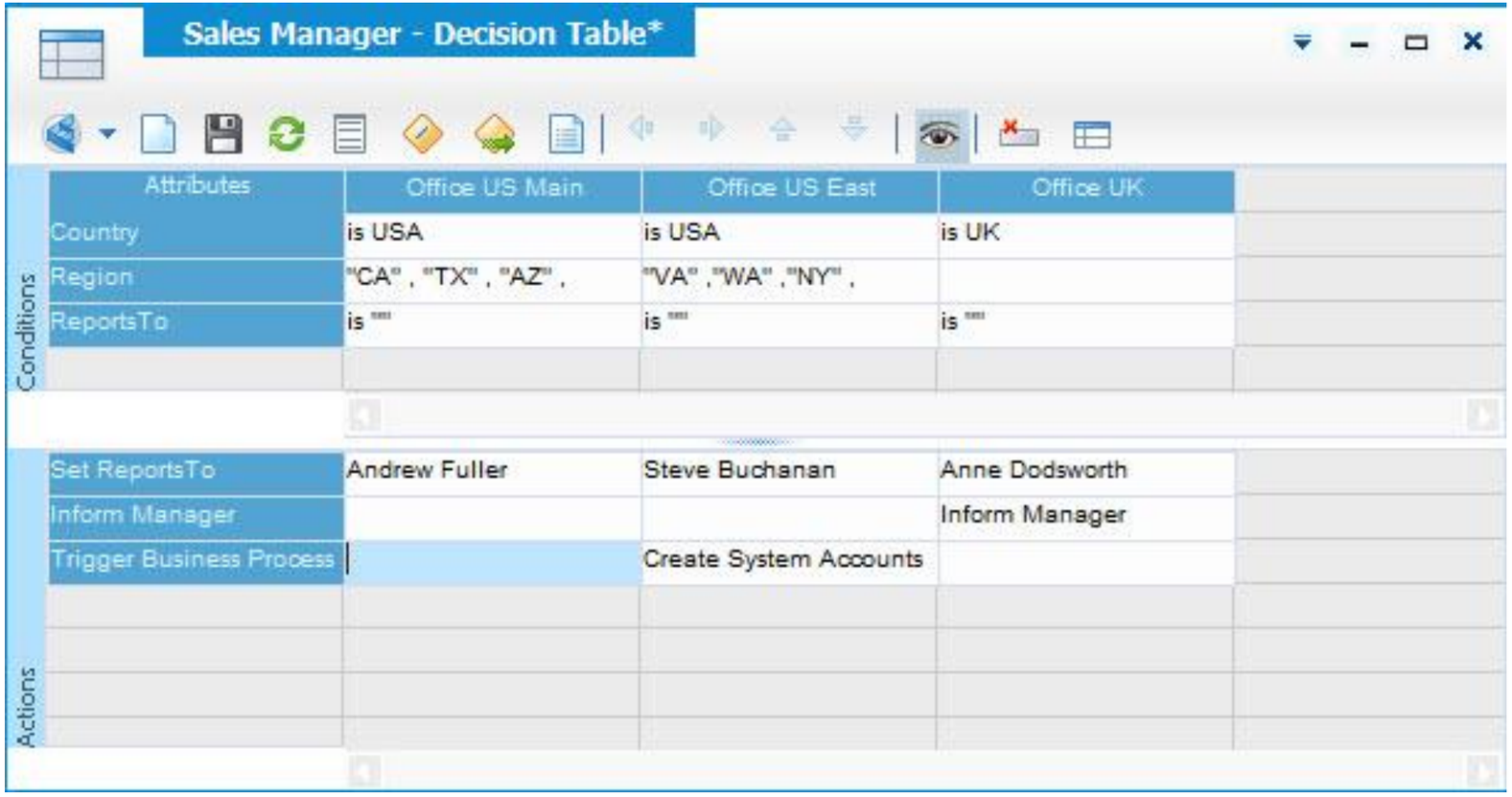
- Business View on Business Rules
- Group of Conditions defined on a Business Entity



Rule Definition Elements

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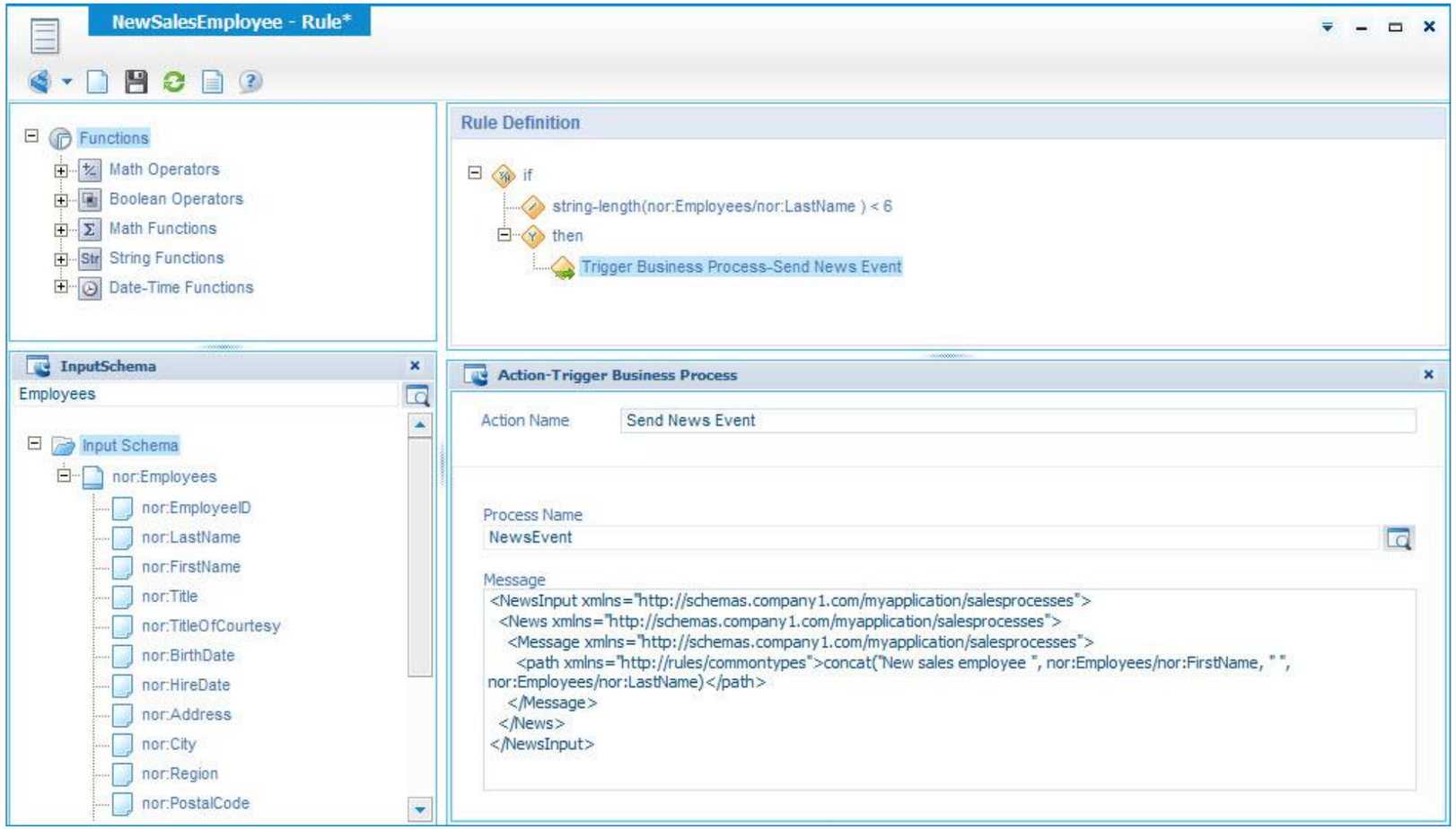
- Condition
  - Complex, technical conditions using functional libraries
- Actions
  - Trigger Business Process
  - Assign
  - Trigger Web Services
  - ….
- Options
  - Override
  - Mutex
  - ....



Rule Groups and Types

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- Rule Group
  - Group rules (for example by context)
  - Prioritize rules by rule group
- Rule Type
  - Constraint – before the backend commit
  - Business - after the backend commit
  - Passive
- Templates (Action / Condition)
  - Reusable for rules and decision tables

Thank You

Questions?