Model Driven Platform Policy

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Federated Management of Policies and Policy Information Exchange

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Management of Policies

Policy Management provides the functions necessary for operators to administer policies and monitor policy execution.

- **Editing** - supports policy creation and modification
- **Translation** - maps external policies into local context and syntax
- **Rule Harmonization** - de-conflicts differences among policies and policy rule sets
- **Validation** - checks the impact of policies on the managed system
- **Scheduling** - plans and activates policy based capabilities
- **Monitoring** - collects policy executing status and performance information
- **Reporting** - analyzes and presents the policy execution status and performance
Federated Policy Environment

Policy Information Exchange (PIE)

- Allows multiple management domains to exchange policy-related information with each other facilitating a distributed Policy environment.
- PIE manages the exchange of policies along with associated policy related information describing the scope, events, conditions, actions, and enforcement metrics.
- Upon receipt of a Policy Exchange Request, a domain performs a validation function to check the impact of the policy within its management domain and responds that the policy exchange is either accepted, or not accepted along with a specific reason.
- When a Policy Exchange Request is accepted, the domain accepting the policy transforms the common policy representation including the associated scope, events, conditions, actions, and enforcement metrics to a local representation.
- The accepting domain also performs rule harmonization and de-confliction of inconsistencies among active policies, as well as collection and reporting of policy enforcement metric statistics.
- PIE also supports Policy Negotiation and Policy Synchronization.
Policy Information Exchange Model

Focuses on the classes necessary to facilitate the exchange of policies across management domain boundaries, including policies and their associated scope, events, conditions, actions, and enforcement metrics.