

# An Efficient Workflow Management Scheme with Explicit Business Rules

\* , \*\* \*\*  
\*  
\*\*

## Abstract

In this paper, we have identified and classified various workflow operational rules. There are many business rules involved in the operation of workflow systems within the enterprise business environments. The rules are defined as ECA (Event-Condition-Action) rules and integrated with workflow systems with the active DB technology. Operational rules are categorized into task dispatching rules, dynamic process adaptation rules, exception handling rules, event-based monitoring rules, and external domain business rules. By adopting rule-based approach, the modification of business rules for process management can be easier. With the explicit management of business rules, the reasoning process of organizations can be formalized and managed transparently, which enables rapid and clear decision-making.

1.

(WFMS: Work- flow Management System)

(flexibility)

(Business rule)

[11]. ,

2.

가 가

Casati 가 [6].

. Casati

[7]. [5]

ECA

Reichert

[12]. Lee WFMS

, WFMS

가

(Role-based)

[10].

가

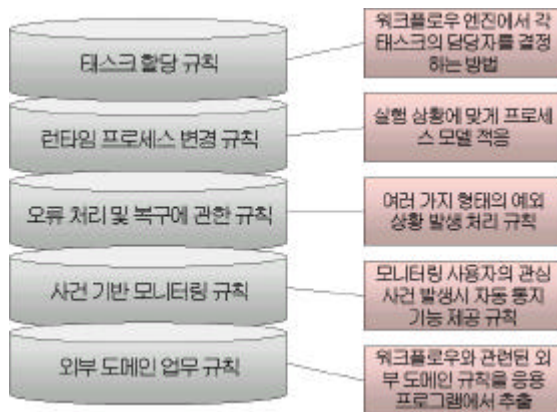
Dellen  
가

[8].

3.

[ 1 ]

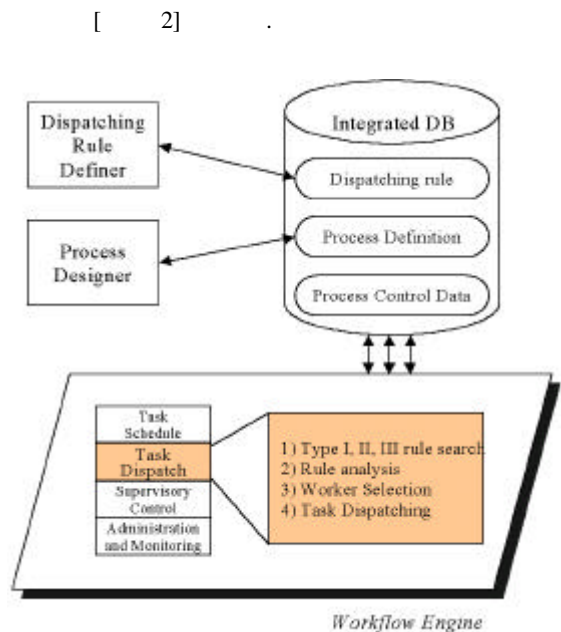
가



[ 1 ]

4

5



[ 2 ]

(Rule Definer)

4.

가

(Role)

가  
 .  
 ECA 가 가  
 .  
 가 가  
 .  
 가  
 .  
 5.3  
 .  
 가  
 .  
 가  
 .  
 ECA 가 가  
 .  
 가 가  
 .  
 5.  
 5.1 가 ECA (Event)  
 .  
 .  
 .  
 (Condition)  
 DB 가  
 .  
 ECA (operations) (Action)  
 .  
 5.4  
 5.2  
 가  
 .  
 가 ECA  
 .  
 6.  
 .  
 DBMS DBMS  
 .  
 가  
 .  
 [ 3]  
 .  
 가  
 .  
 .

