

PROFINet

PROFINet

가

() IT 가 . PROFINet

가

PROFINet

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PROFIBUS

, PROFINet

IT

International

PROFINet

motion control application(PROFIdrive)

fail-safe application (PROFIsafe)

PROFINet

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(, , , ,)가

PLC PC

(, , , ,) ,

(가 , , , ,) ,

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1. PROFINet

IT , PROFIBUS

PROFINet

1999

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PROFIBUS

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가

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PROFIBUS . 2. Components and Objects

(, PROFInet
).

PROFIBUS (PLC
, DP) 가 가 IT

가

= PROFInet 가 가 .

가,

IT Ethernet
PROFIBUS 가 .

PROFIBUS .

PFOFIBUS PROFInet 가
가

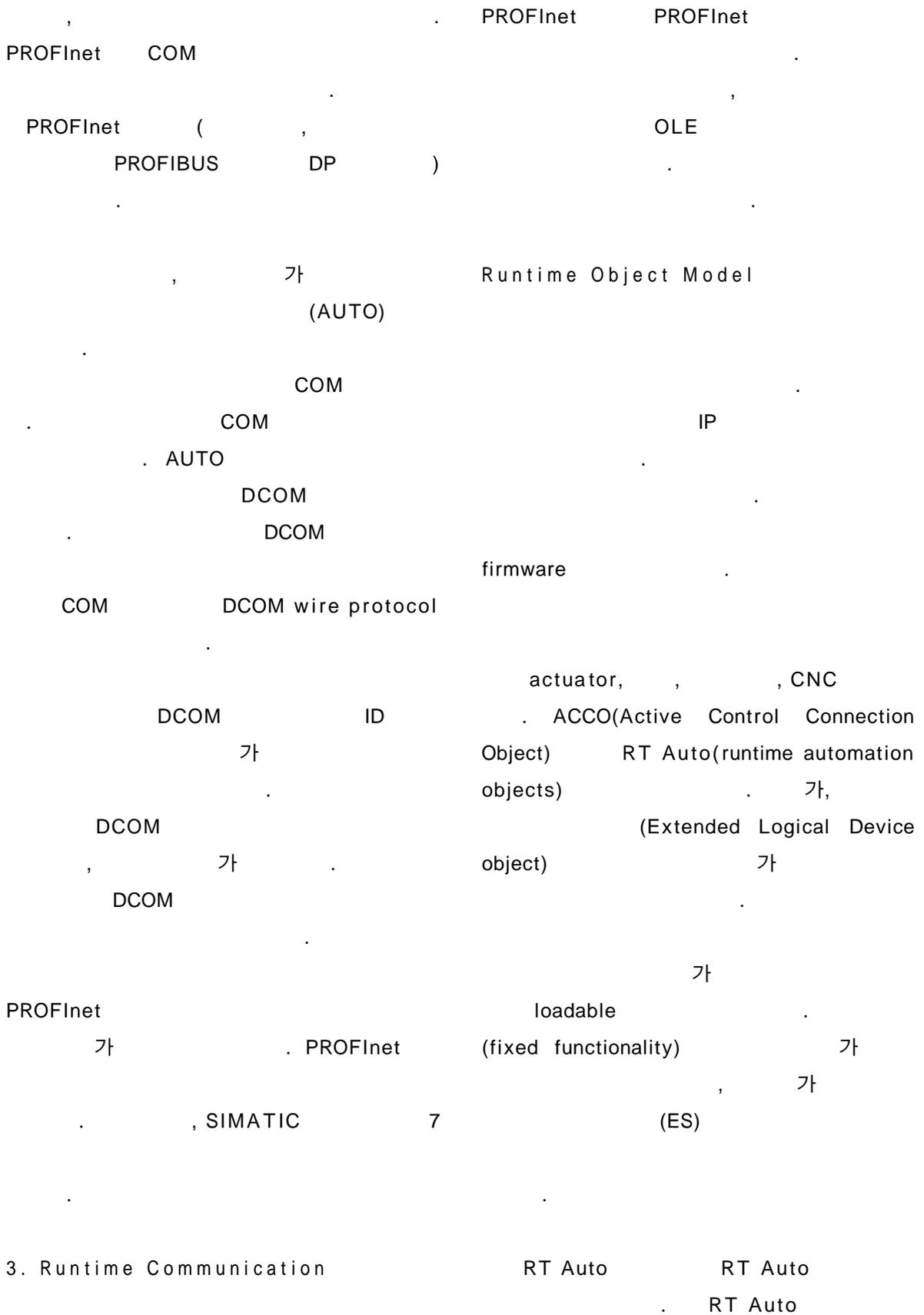
PROFInet .

(, , ,
가 (

PLC, PC)

가 .

, PROFInet Ethernet () 가



ES Auto task) 가 PROFInet
 ES PROFInet
 PROFInet 가 PROFInet
 PROFInet PROFInet
 RT Auto PROFInet
 Runtime Communication WINDOWS 2000, NT, CE 가
 PROFInet 4.
 RPC/DCOM PROFInet
 DCE RPC TCP(UDP)/IP (addressing) (PROFInet /)
 TCP(UDP)/IP , PROFInet /
 가 Ethernet AS PROFIBUS
 PROFInet (creating) (,)
 (using) (application configuration)
 PROFInet Ethernet 가
 (non-deterministic response) Ethernet 가 AUTO
 가 anchor .
 (highly time-critical AUTO view

.
 , 가 /
 (HMI perspective) 가
 ES AUTO(automation object)
 가 ,
 가
 가 AUTO
 .
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PROFINet
 Microsoft COM/DCOM
 : TCP(UDP)/IP DCOM
 wire protocol
 (HMI): Microsoft OLE, ActiveX
 PROFIBUS
 PROFIBUS
 PROFINet spec 가
 . PROFINet

5. Specification

(software reference implementation)

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 PROFINet 가
 PROFINet
 (MES : Manufacturing Execution System)

PROFIBUS International
 (Open Source) . Spec
 PROFINet
 . Open
 Source PROFINet
 PROFIBUS
 International