

# NeOSS

,

NeOSS 15 KT . 2002 NeOSS 8  
 , NeOSS , XML, EAI,  
 , .NET 6 ,

## I.

KT  
 , KT / 15 119  
 , 23 89 , / 12 30 , 가 / 8 317  
 , 4 11 62 566 (2003 3 )  
 KT

가

가

가

NeOSS(New Operation Support

System)  
 NeOSS TMN ( )  
 , NeOSS 62 566 35 438  
 , 가  
 XML, SOAP .NET  
 , 2002  
 NeOSS , .NET NeOSS

## II. NeOSS

### 1.

KT (OS 6 , 13 , GUI 7 , 8 )  
 가 , 가 가 , 가  
 가 가 가 , 가  
 가 .  
 KT . AT&T CS(Customer Care Center), PC  
 (Provisioning Center), NOC(Network Operation Center), MC(Maintenance Center) 4  
 OSS(Operation Support System) , BT  
 OSS . Telia 800  
 , Telstra IP OSS  
 .[1]  
 AS  
 가 . ,

### 2.

NeOSS 2001 KT  
 . 2002  
 , NeOSS .< 1>  
 , 2003  
 2004 . 2003 4 (MS) NeOSS (MOU)  
 NeOSS . MS MOU .[2]  
 ■  
 ■ /  
 ■ Packaging  
 ■ MSF  
 ■ NeOSS  
 ■ MS  
 ■ MS NeOSS ( 가 ) NeOSS

< 1> NeOSS

2000.7.10	
2001.12.13	“ ”
2002.4.23	(e-KT )
2002.6.12	NeOSS
2002.7.23	
2003.1.30	NeOSS MS .NET ( )
2003.1~4	NeOSS POC(Proof of Concept) Risk
2003.4.17	KT MS NeOSS (MOU)
2003.5~7	NeOSS 1.0
2003.5~	NeOSS
2003.8.28	2003 NeOSS 가
2003.11.10	2004 NeOSS H/W, S/W SI
2003.12.26	NeOSS ( )
2003.12.30	NeOSS 2.0 ( 6 )

3.

( 1) 2003 NeOSS . 2003 (SO, SA, SLA, FM, WM, ADM) 2004 (Del, IP, ATM, TN, NGN, Traffic) 2005 .

	1 (2003)	2 (2004)	3 (2005)
Key Word		NeOSS	NeOSS
	<ul style="list-style-type: none"> <li>◆</li> <li>◆</li> <li>◆ NeOSS</li> <li>◆ NeOSS</li> <li>◆ NeOSS POC(Proof of Concept)</li> <li>◆ ( / )</li> <li>◆ Single Sign On</li> <li>◆ Outsourcing</li> <li>◆</li> <li>◆</li> <li>◆</li> </ul>	<ul style="list-style-type: none"> <li>◆ NeOSS DB Migration</li> <li>◆ Legacy NeOSS</li> <li>◆ NeOSS (2004.7)</li> <li>◆ NeOSS</li> <li>◆ NeOSS</li> <li>◆</li> <li>◆ NeOSS</li> <li>◆ NeOSS</li> <li>◆ NGOSS</li> </ul>	<ul style="list-style-type: none"> <li>◆ NeOSS</li> <li>◆ NeOSS</li> <li>◆ NeOSS 8</li> <li>◆ NeOSS</li> </ul>
	<ul style="list-style-type: none"> <li>◆ BM,LM,PM</li> <li>◆ NeOSS V2.0 (2002.12 )</li> </ul>	<ul style="list-style-type: none"> <li>◆ NeOSS V2.1</li> <li>◆ NeOSS BM,LM,PM</li> </ul>	<ul style="list-style-type: none"> <li>◆ NeOSS V2.2</li> </ul>

( 1) NeOSS

### III. NeOSS

#### 1. 8

NeOSS 8 , 가 가 One-stop NeOSS가 8 < 2> .

#### < 2> NeOSS 8

8		
order-tracking	/	가
pre-ordering		가
One stop	End-to-End	가
	/	
	DB /	
SLA		
on-line		

#### 2. NeOSS

NeOSS 2002 6 NeOSS 가 1) , 2) 가 , 3) , 4) . Gartener MS .NET J2EE NeOSS .NET 2003 1 . MS .NET J2EE MS .NET J2EE .[3] NeOSS NeOSS 가 (SO, SA, ADM, WM, FM, SLA) 2005

#### < 3>

	MS .NET	J2EE	MS .NET
TCO			MS .NET
가	\$6.76/tpmC ~ \$12.86/tpmC	\$16.41/tpmC ~ \$44.62/tpmC	MS .NET

	Web Service		가
e-Business Solution	Windows .NET	DNA 2004 J2EE	2003 J2EE e-business 2005
	C++/VB/C#	Java	
	MS Windows	Unix/Linux/Windows	J2EE
	48%(.NET)	52%(Java or Other)	가
			KT OSS MS .NET J2EE
	SOAP	CORBA (IIOP)	
EAI	EAI	J2EE	MS .NET
			MS .NET
			MS .NET

### 3. NeOSS

NeOSS / e-TOM Flow-through  
가 ,

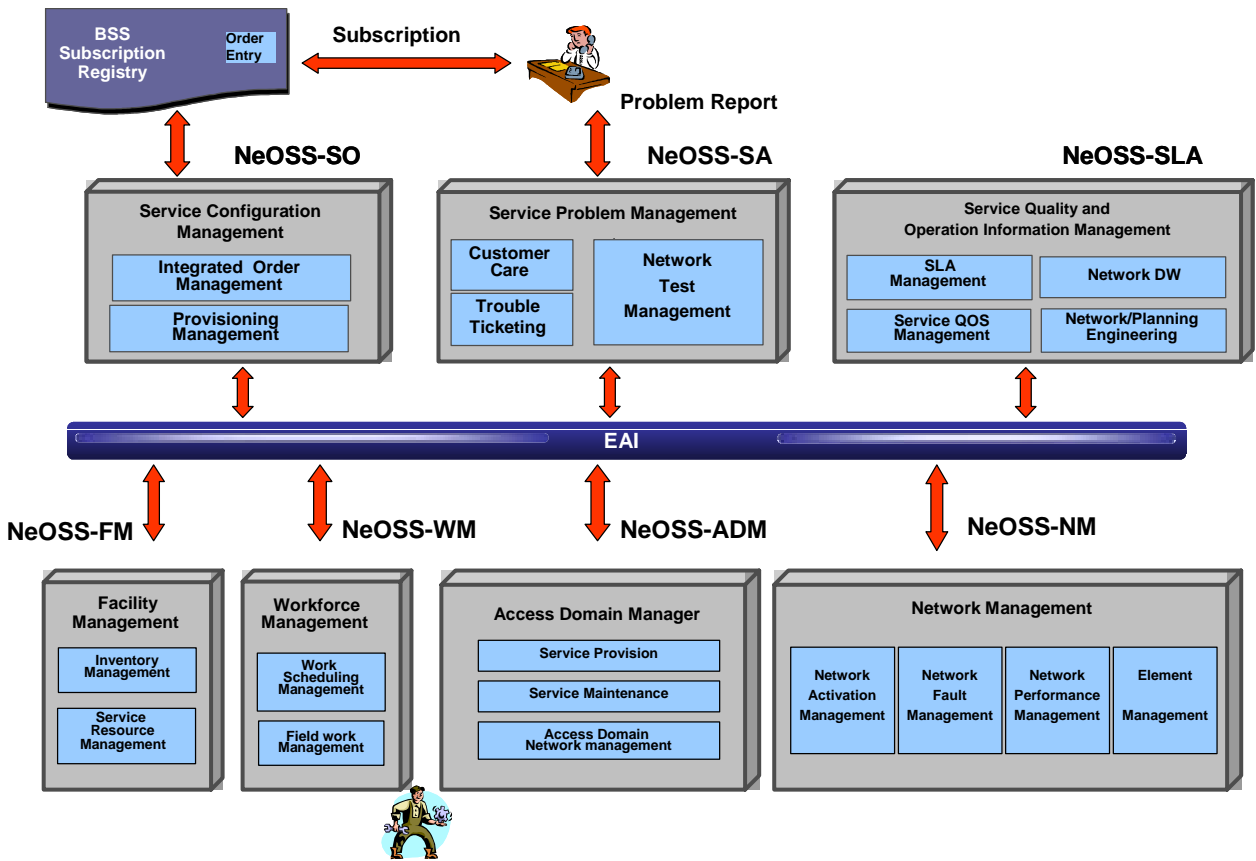
( 2) NeOSS SO/ADM, SA, FM, WM, ADM/NM, ADM  
SLA, 가 EAI 가

( 3) NeOSS NeOSS가 KT TMF (Telecommunication Management Forum)  
가 가 가

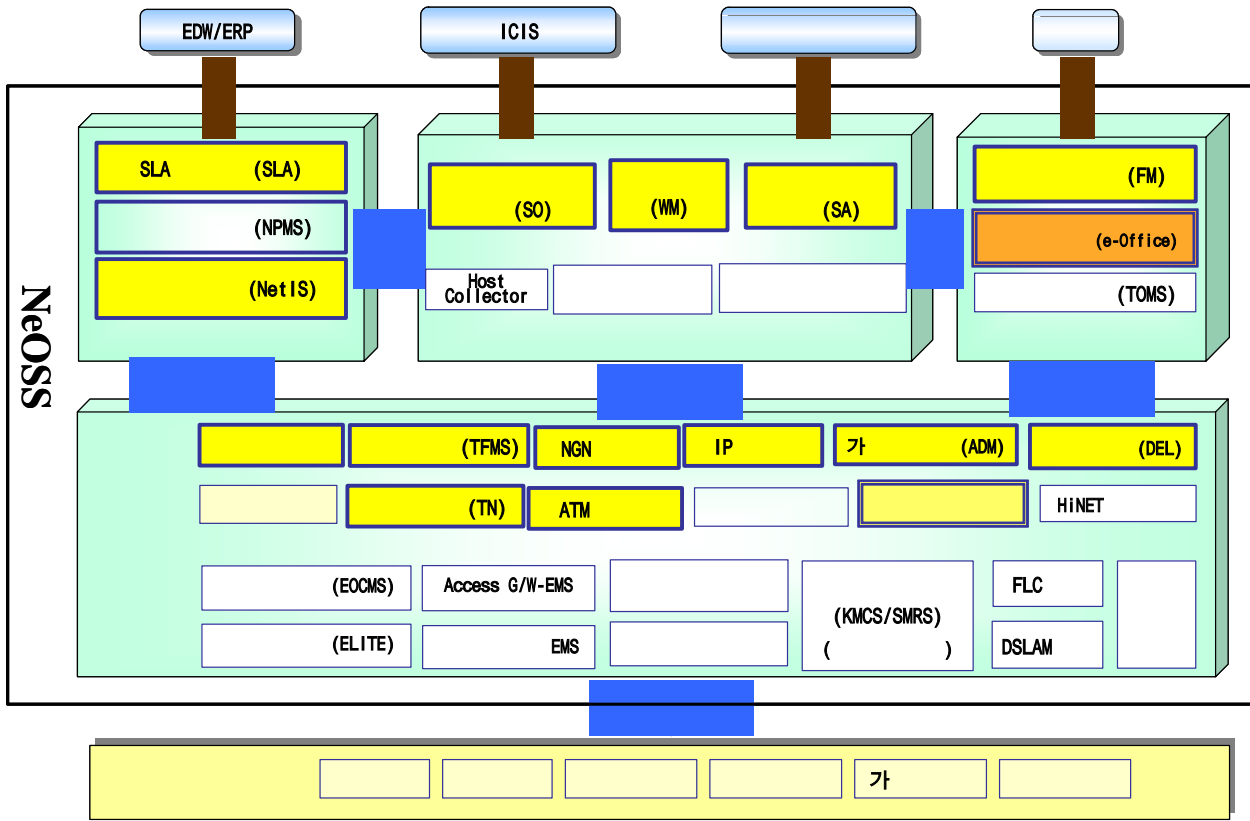
NeOSS 가  
NeOSS  
2 , 2004

가 NeOSS

- DB DB
- H/W S/W
- 가
- 가
- Peak 가



( 2)



( 3) NeOSS

#### IV. NeOSS

가 가 OSS가  
 , ,  
 OSS . KT NeOSS (common  
 infrastructure) NeOSS  
 Microsoft .NET , OSS .NET  
 , NeOSS .

#### 1. NeOSS

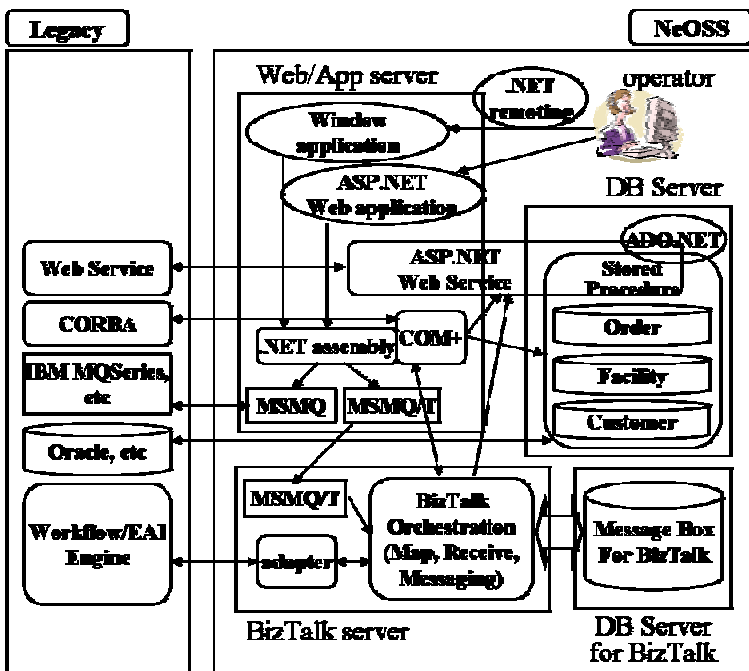
KT OSS Unix CORBA(Common Object Request Broker Architecture),  
 Java . KT Java J2EE .NET  
 NeOSS , MS .NET  
 . MS .NET NeOSS가 .[4][5]

- : OSS /  
 . CBD(Component Based Development)  
 RAD(Rapid Application Development) IDE(Integrated Development Environment)

- 가 . MS .NET COM+(Component Object Model)
- .NET
- VS.NET(Visual Studio .NET) SQL
- BizTalk
  - : S/W H/W scale-up, H/W scale-out
  - : VS.NET WYSIWYG(What You See Is What You Get) UI (User Interface)
  - / : COM+ , MS DTC(Distributed Transaction Coordinator) MSMQ(MS Message Queuing) BizTalk
  - , SQL OSS : XML MSMQ, COM/CORBA , BizTalk EAI(Enterprise Application Integration) OSS 가
  - : KT MS 가 , S/W H/W 가 Unix 40% 가 .[3]

2. NeOSS .NET

( 4) NET NeOSS [5]. NeOSS / BizTalk Legacy



( 4) .NET NeOSS

가. EAI (BizTalk ) NeOSS



가  
 가  
 ICIS , ERP(Enterprise Resource Planning) . KT BSS(Business Support System) OSS EAI

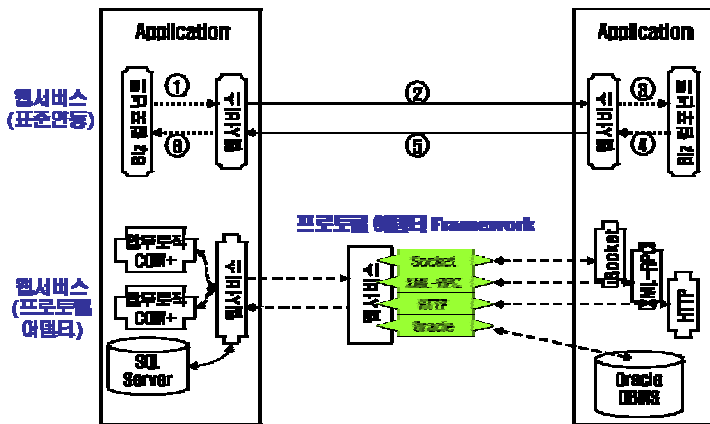
NeOSS EAI BizTalk 2004 BizTalk 2004

- 가
- :
- :
- : OLAP
- EAI : , MSMQ adapter
- : VS.NET 가

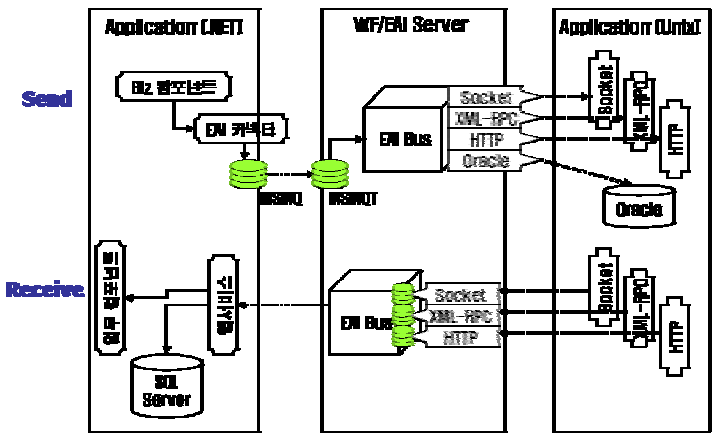
. XML  
 XML 가 . Microsoft .NET  
 Microsoft XML XML  
 . NeOSS 가 XML ,  
 , BizTalk XML  
 XML Legacy OSS

1) ASP.NET

NeOSS XML HTTP SOAP(Simple  
 Object Access Protocol)  
 . NeOSS ( 5) ( 6)  
 EAI WSDL (Web  
 Service Description Language) UDDI(Universal Description, Discovery and Integration)



( 5) NeOSS



( 6) NeOSS

2)

.NET , COM SOAP/XML, HTTP, TCP/IP, DCOM  
 가 . NeOSS C/S(Client/Server) UI

3) (MSMQ) (queue)

BizTalk MSMQ MSMQ/T 가 . NeOSS

1) SQL NeOSS NeOSS-FM SO, SA, ADM, WM SLA  
 가 . NeOSS Microsoft SQL (64bit) , SQL NeOSS

- ( )
- 가 가
- I/O (thrashing: )

2) ADO.NET ADO.NET MS가 ODBC(Open Database Connectivity) API(Application Programming Interface) , VS.NET DataSet, DataReader, DataAdapter  
 . NeOSS ADO.NET (stored procedure) ASP.NET API DB API  
 가

. (COM+ ) COM+ COM MTS(Microsoft Transaction Server)

. NeOSS

COM+

**. User Interface**

1) ASP.NET

VS.NET

Windows

(Web Forms)

NeOSS UI

2)

VS.NET

(Window Forms)

NeOSS

**(Visual Studio .NET)**

VS.NET XML , Microsoft Windows

NeOSS

Microsoft

/

**V.**

NeOSS

KT

One stop

, SLA

8

NeOSS

, Microsoft

2004 7

가

NeOSS

1

가

DB

. NeOSS

64

2004

KT

NeOSS

OSS

[ ]

[1] , “ ”, 2003 , 2002.12

[2] NeOSS , 2003.4

[3] NeOSS , 2003.1, 2003.8

[4] Jae-Oh Lee, “Enabling Network Management Using Java Technologies”, IEEE Communications Magazine, Jan. 2000.

[5] Seong Ik Hong, Young Il Kim and Woo Sung Kim, “3 tier OSS architecture with .NET platform”, APNOMS 2003, Oct. 2003.