



a PrismTech Product Line

Firewalling Java and CORBA with the IOP Domain Boundary Controller



Firewalls are the standard way to protect corporate networks which are connected to the Internet or to networks of other organizations. Firewalls are also often part of the internal network infrastructure, thus structuring the corporate network into separate security domains. The expansion of Java-RMI and CORBA based applications over existing firewall installation poses special problems which in many cases even prevent the expansion of business applications to users outside the firewall.

EASE OF USE

The IOP Domain Boundary Controller (I-DBC) product provides a plug-in run-time firewall and security solution for any CORBA and EJB applications eliminating the need to modify a single line of code in those applications. It is fully transparent to both the client and server, and very little configuration is necessary.

FULL FIREWALL SECURITY FOR EJB AND CORBA

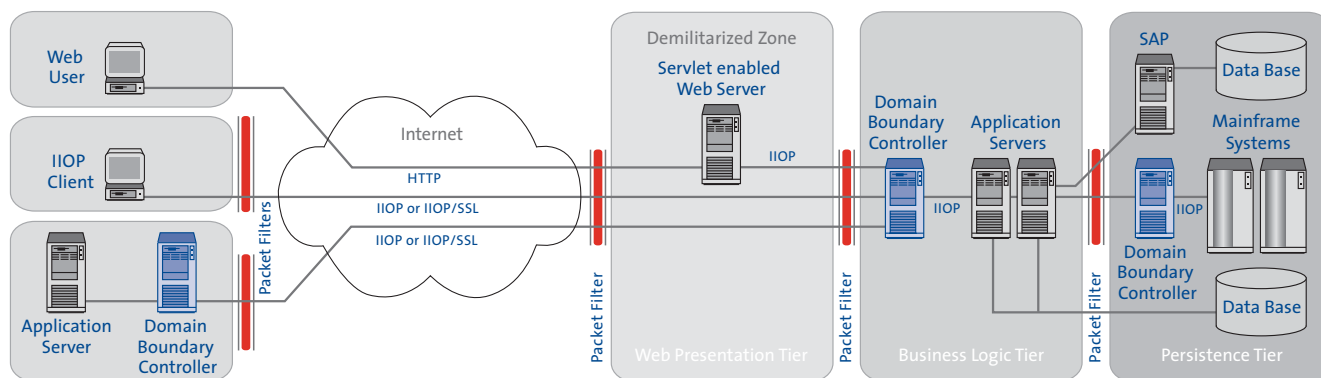
The primary function of the I-DBC is to provide all functionality necessary for securely passing IOP over firewall installations. With the I-DBC, the security of existing firewall installations can fully be maintained, and IOP based applications can be deployed over the internet as securely as within the internal network. The product has been designed and implemented following well-established firewall principles and provides full Application Level Gateway security.

OPERATIONAL CHARACTERISTICS

- › seamless secure co-operation with packet filters, no need to open whole port ranges
- › support for Network Address Translation (NAT)
- › middleware vendor neutral, standard CORBA and Java/EJB IOP solution
- › integration with enterprise-wide security infrastructure
- › LDAP-based user management integration

SECURITY FEATURES

- › Strict firewall design
- › Strong encryption (SSL/TLS) and authentication
- › Various methods for user authentication (PKI, SecurID, or password based) and authorization
- › Fine grained, user and role based access control (EJB role definitions) at method level
- › Extensive and flexible security audit and logging



TYPICAL I-DBC APPLICATION ARCHITECTURES

IIO from the web server

J2EE web servers are becoming very popular for building sophisticated multi-tier web applications using IIO connections between the web presentation tier, usually a servlet-enabled web server, and the business logic tier, usually an EJB server. Here, the IIO Domain Boundary Controller provides a very strong line of defense so that even if the web server is cracked as we have often seen recently, access to the backend will be impossible. Opening up the internal packet filter of the demilitarized zone or whole firewalls, in case the web server is installed outside the own network, becomes unnecessary.

IIO via Internet

The I-DBC allows you to use IIO directly in Extranets or over the Internet, either for direct interaction between applications over firewalls and domain boundaries, or for applications with complex interactions with client expanded to close business partners, such as in telecommunication systems, or for enterprise application integration.

IIO over internal firewalls

Internal firewalls, e.g., between the application servers and backend systems can be passed with IIO using the I-DBC without compromising on the security of the backend systems, e.g., the data bases with the core enterprise data. This out-of-the-box solution provides fine grained protection of the systems accessed with IIO, such as mainframe applications with Corba interfaces.

ALL IN THE BOX

The I-DBC is delivered with all software components necessary to implement a corporate IIO Application Level Gateway, including Domain Boundary Controller (bastion host component), Security Policy Server, Administration Console, and LDAP interface.



PrismTech Limited
Xtradyne Security Technologies

PrismTech House
5th Avenue Business Park
Team Valley, Gateshead
Tyne & Wear NE 11ONG
UK

Tel +44-(0)191-49799 00
Fax +44-(0)191-49799 01
Email: info@xtradyne.com
Web: www.xtradyne.com