# Port Requirements for Veritas Desktop and Laptop Option 9.6

This document provides details of the Port configuration for the DLO Server components and DLO Clients in a firewall environment.

The DLO Desktop Agents can be installed on endpoints that are connected either over the corporate network or in the Backup Over Internet (BOI) mode using the private internet connection.

Following are the port configuration details for the three deployment scenarios:

- **Non BOI Deployment**: For organizations having endpoints that are always within the organization premises and are connected over the corporate network.

- **Exclusive BOI Deployment**: For organizations having endpoints that are always outside the corporate network and connect only using internet connection.

- **Occasional BOI Deployment**: For organizations having endpoints that are occasionally outside the organization premises, during which they connect using internet connection, but are otherwise within the organization premises connecting over the corporate network.

## Port Configuration for DLO Server Components

| Process | Port | Port Type | Non BOI Deployment | Exclusive BOI Deployment | Occasional BOI Deployment |
|---------|------|-----------|--------------------|--------------------------|---------------------------|
| DLO Administration Service | 3999 | TCP/UDP | **Source (Outbound)**: DLO Administration Console<br><br>**Destination (Inbound)**: DLO Administration Server | **Source (Outbound)**: DLO Administration Console<br><br>**Destination (Inbound)**: DLO Administration Server | **Source (Outbound)**: DLO Administration Console<br><br>**Destination (Inbound)**: DLO Administration Server |
| SQL Server Browser | 1434 | UDP | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server<br><br>**Destination (Inbound)**: SQL Server | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server DLO IO Server<br><br>**Destination (Inbound)**: SQL Server | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server DLO IO Server<br><br>**Destination (Inbound)**: SQL Server |
| SQL Server | 1433 or dynamic port | TCP | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server<br><br>**Destination (Inbound)**: SQL Server | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server DLO IO Server<br><br>**Destination (Inbound)**: SQL Server | **Source (Outbound)**: DLO Administration Server DLO Administration Console DLO Dedupe Server DLO IO Server<br><br>**Destination (Inbound)**: SQL Server |

| Process | Port | Port Type | Non BOI Deployment | Exclusive BOI Deployment | Occasional BOI Deployment |
|---|---|---|---|---|---|
| File Sharing/ Browsing | 135-139, 445 | TCP/UDP | **Source (Outbound):**<br>DLO Administration Server<br>DLO Administration Console<br>DLO Dedupe Server<br>DLO Maintenance Server<br><br>**Destination (Inbound):**<br>Storage Location<br>Dedupe Storage Location<br>SQL Server | **Source (Outbound):**<br>DLO Administration Server<br>DLO Administration Console<br>DLO Dedupe Server<br>DLO Maintenance Server<br>DLO IO Server<br><br>**Destination (Inbound):**<br>Storage Location<br>Dedupe Storage Location<br>SQL Server | **Source (Outbound):**<br>DLO Administration Server<br>DLO Administration Console<br>DLO Dedupe Server<br>DLO Maintenance Server<br>DLO IO Server<br><br>**Destination (Inbound):**<br>Storage Location<br>Dedupe Storage Location<br>SQL Server |
| Dedupe Port | 8443 | HTTPS | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server |
| Dedupe Port | 8080 | HTTP | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Dedupe Server |
| Dedupe Port | 8009 | AJP | NA | **Source (Outbound):**<br>DLO Edge Server<br><br>**Destination (Inbound):**<br>DLO Dedupe Server | **Source (Outbound):**<br>DLO Edge Server<br><br>**Destination (Inbound):**<br>DLO Dedupe Server |
| Edge Server Port | 443 | HTTPS | NA | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Edge Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Edge Server |
| Edge Server Port | 90 | HTTP | NA | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Edge Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO Edge Server |
| IO Server Port | 7080 | HTTP | NA | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO IO Server | **Source (Outbound):**<br>DLO Administration Console<br><br>**Destination (Inbound):**<br>DLO IO Server |

| Process | Port | Port Type | Non BOI Deployment | Exclusive BOI Deployment | Occasional BOI Deployment |
|---|---|---|---|---|---|
| IO Server Port | 7009 | AJP | NA | **Source (Outbound):** DLO Edge Server<br><br>**Destination (Inbound):** DLO IO Server | **Source (Outbound):** DLO Edge Server<br><br>**Destination (Inbound):** DLO IO Server |
| Additional Ports for Push Installation | 135, 1037, 441,1125 Dynamic Ports (49152 – 65535) | TCP | **Source (Outbound):** DLO Administration Server DLO Administration Console<br><br>**Destination (Inbound):** DLO Clients | NA | **Source (Outbound):** DLO Administration Server DLO Administration Console<br><br>**Destination (Inbound):** DLO Clients |
| Additional Ports for DLO Dashboard and Diagnostic Utility | 135, 443 | TCP | NA | **Source (Outbound):** DLO Administration Server DLO Administrator Console DLO Edge Server<br><br>**Destination (Inbound):** DLO Administration Server DLO Administrator Console DLO Edge Server | **Source (Outbound):** DLO Administration Server DLO Administrator Console DLO Edge Server<br><br>**Destination (Inbound):** DLO Administration Server DLO Administrator Console DLO Edge Server |

## Port Configuration for DLO Clients

| Process | Port | Port Type | Non BOI Deployment | Exclusive BOI Deployment | Deployment for Occasional BOI |
|---|---|---|---|---|---|
| Edge Server Port | 443 | HTTPS | NA | **Source (Outbound):** DLO Clients* Web Restore Machine<br><br>**Destination (Inbound):** DLO Edge Server<br><br>*If multiple Edge Servers are configured, ensure to have the ports opened from the Client to the Default Edge Server and the tagged Edge Server.* | **Source (Outbound):** DLO Clients* Web Restore Machine<br><br>**Destination (Inbound):** DLO Edge Server |
| File Sharing/ Browsing | 135-139, 445 | TCP/UDP | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** Storage Location Dedupe Storage Location | NA | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** Storage Location Dedupe Storage Location |
| Dedupe Port | 8443 | HTTPS | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** DLO Dedupe Server | NA | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** DLO Dedupe Server |
| Dedupe Port | 8080 | HTTP | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** DLO Dedupe Server | NA | **Source (Outbound):** DLO Clients<br><br>**Destination (Inbound):** DLO Dedupe Server |

| Process | Port | Port Type | Non BOI Deployment | Exclusive BOI Deployment | Occasional BOI Deployment |
|---|---|---|---|---|---|
| SQL Server Browser | 1434 | UDP | **Source (Outbound)**: DLO Clients<br><br>**Destination (Inbound)**: SQL Server | NA | **Source (Outbound)**: DLO Clients<br><br>**Destination (Inbound)**: SQL Server |
| SQL Server | 1433 or dynamic port | TCP | **Source (Outbound)**: DLO Clients<br><br>**Destination (Inbound)**: SQL Server | NA | **Source (Outbound)**: DLO Clients<br><br>**Destination (Inbound)**: SQL Server |