

Foxhole

Automates the importing and exporting via CSV

Foxhole is the one tool your Niagara AX and Niagara 4 toolboxes should not be without. It extends the communication and engineering capabilities of the Niagara systems.

Foxhole helps engineers and users save time and money by allowing interaction with their applications from remote locations.

Service organizations will find this a particularly useful tool.

Product Overview

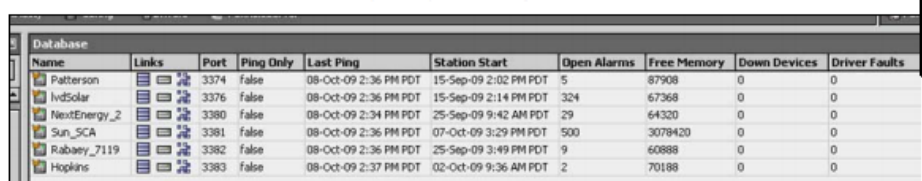
Foxhole is all about opening communication between previously unreachable Niagara AX and Niagara 4 installs and your web server. Foxhole enables full integration of the Niagara Network where previously not possible. It integrates your Web Supervisor or engineering tool with JACEs they cannot “see.” This powerful tool enables the JACE to open a communication pipe to the Web Supervisor without the need for firewall pinholes.

Benefits and features included with Foxhole:

- **Allows the use of less expensive labor to do the local install**
- **Application engineers use Foxhole tunneling**
- **A single dedicated Web Supervisor for all station connections**

Foxhole helps lower the cost of and enhance your service business:

- **Use of Foxhole tunneling for virtual service calls**
- **Dedicated Web Supervisor for service business**
- **Server-side “health” dashboard (below) allowing for proactive service**



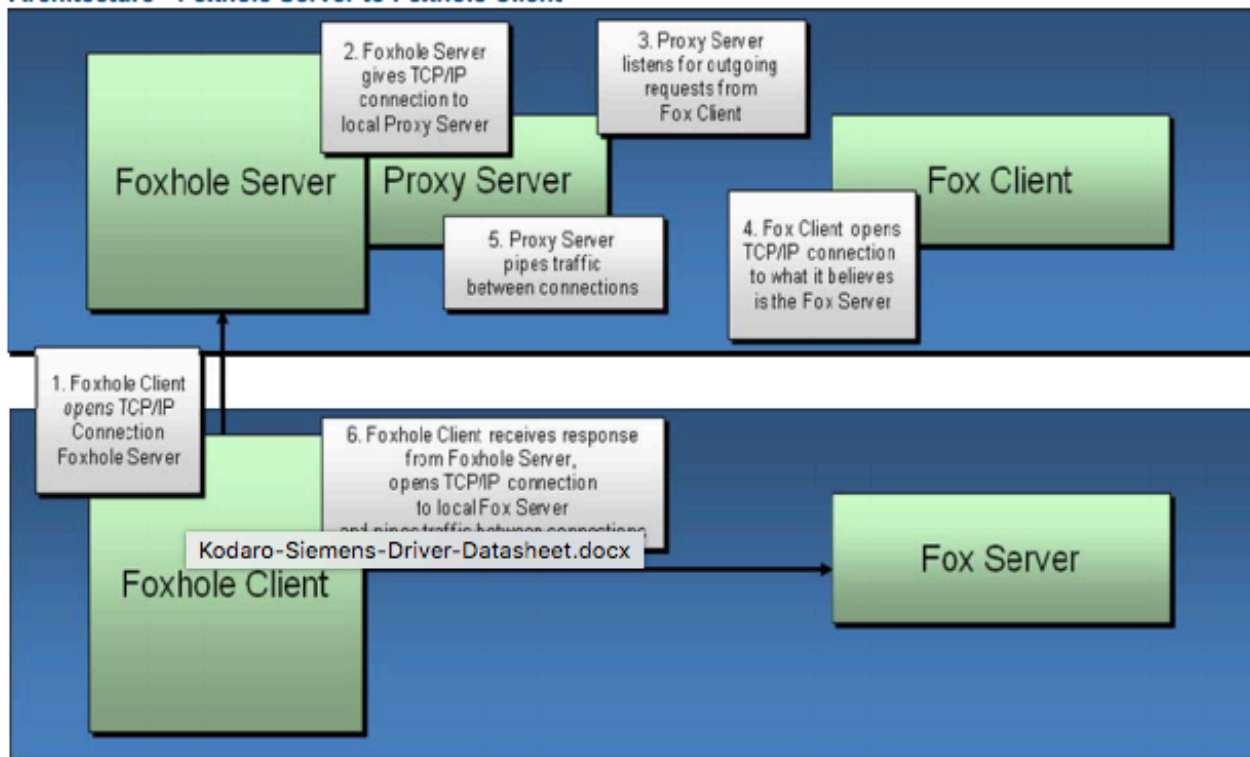
| Name | Links | Port | Ping Only | Last Ping | Station Start | Open Alarms | Free Memory | Down Devices | Driver Faults |
|--------------|-------|------|-----------|-----------------------|-----------------------|-------------|-------------|--------------|---------------|
| Patterson | | 3374 | False | 08-Oct-09 2:36 PM PDT | 15-Sep-09 2:02 PM PDT | 5 | 87908 | 0 | 0 |
| IvdSolar | | 3376 | False | 08-Oct-09 2:36 PM PDT | 15-Sep-09 2:14 PM PDT | 324 | 67368 | 0 | 0 |
| NextEnergy_2 | | 3380 | False | 08-Oct-09 2:34 PM PDT | 25-Sep-09 9:42 AM PDT | 29 | 64320 | 0 | 0 |
| Sun_SCA | | 3381 | False | 08-Oct-09 2:36 PM PDT | 07-Oct-09 3:29 PM PDT | 500 | 3078420 | 0 | 0 |
| Rabaey_7119 | | 3382 | False | 08-Oct-09 2:36 PM PDT | 25-Sep-09 3:49 PM PDT | 9 | 60888 | 0 | 0 |
| Hopkins | | 3383 | False | 08-Oct-09 2:37 PM PDT | 02-Oct-09 9:36 AM PDT | 2 | 70188 | 0 | 0 |

Ability to firewall the JACE:

- **Built in firewall**
 - **Blocks IP communications to/from the Niagara station**
- **Only allows communications with the server**
 - **Access JACE by Foxhole tunneling through the Web Supervisor**

(Architecture examples of Foxhole client/server on the following page)

Architecture - Foxhole Server to Foxhole Client



Architecture - Foxhole Client to Foxhole Server

