Waterfall One Way – Unidirectional connectivity for securing critical networks
Unidirectional Gateway Solution

- Security promise
  - Hackers on the outside have no physical hacking path
  - The secured NETWORK is protected (with all internal assets)
  - Hacking sessions are impossible
  - Absolutely no data transfer in the “wrong” (i.e. RX→TX) direction
Why Waterfall?

- **SCADA-centric**
  - Unidirectional gateways built for CNI market
  - First industrial installation at a CNI – 2006
  - Support Historian replication solutions built on the basis of the historian SDK and API’s. (OSIsoft PI, Instep eDNA, GE iHistorian, Siemens WINTS)
  - Support all SCADA protocols – OPC; MODBUS; ICCP; DNP3

- **Hardware**
  - 1 Gb link supported
  - Solution is hardware invariant
  - Hot swap facility

- **High availability**
  - Software supported
  - Hardware supported
Why Waterfall?

- **Leading Industrial Applications/Historians**
  - OSISoft PI, GE iHisorian, GE iFIX, Scientech R*Time
  - Rolls Royce DS&S, Instep eDNA, GE OSM, Siemens WinCC, SIMATIC

- **Leading IT Monitoring Applications**
  - Log Transfer, SNMP, SYSLOG
  - CA Unicenter, CA SIM, HP OpenView
  - Matrikon Alert Manager

- **File/Folder Mirroring**
  - Folder, tree mirroring, remote folders (CIFS)
  - FTP/FTFP/SFTP/TFPS/RCP

- **Remove Screen View™**
  - Unidirectional transfer of real-time screen display capture

- **Leading Industrial Protocols**
  - Modbus, OPC (DA, HDA, A&E)
  - DNP3, ICCP

- **Other connectors**
  - UDP, TCP/IP
  - Video/Audio stream transfer
  - Mail server/mail box replication
  - IBM Websphere MQ series
  - Antivirus updater, patch (WSUS) updater
  - Remote Print server
Waterfall implementations in the US

Over 15 states, more than 28 operational sites