

## Data Analytics for Power & Process Industries

### About ProcDNA™

ProcDNA™ is a powerful software that analyzes the most important aspects of power and process industries – **Reliability and Thermal Performance**.

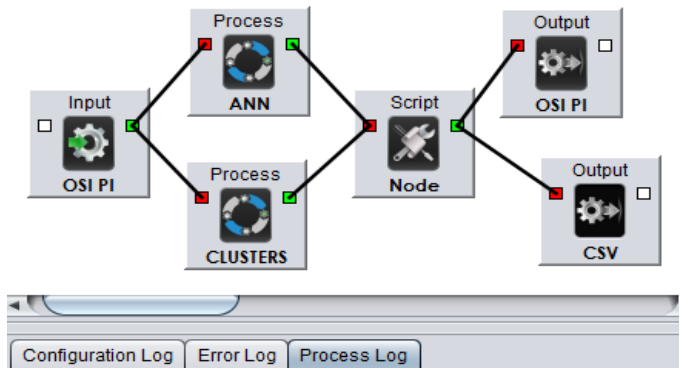
ProcDNA™'s hybrid architecture makes use of independent methods to analyze data and to detect anomalies in critical assets of any industry. Advance warnings given by ProcDNA™ help in significant reduction of forced outages.

Our software suite specially suits fleet owners with diverse portfolios as they can be configured to monitor live data on a continuous basis to identify **Equipment anomalies, Process anomalies, Data & Sensor Anomalies** of all critical assets in addition to highly accurate component level **Thermal performance analysis** of all major equipment.

With ProcDNA™ centralized monitoring of health and reliability of critical assets becomes easy and inexpensive. Results of analysis can be exported to industry standard historians and can also be used to trigger notifications (email, SMS etc.) for any required maintenance actions.

### Application

- Simple and Combined Cycle plants
- Thermal Plants
- Nuclear Power Plants
- Mechanical Drives & Aero Derivatives
- Co-generation units
- Oil and Gas Industry
- Process Industries



ProcDNA™ setup – Hybrid architecture

### ProcDNA™ features

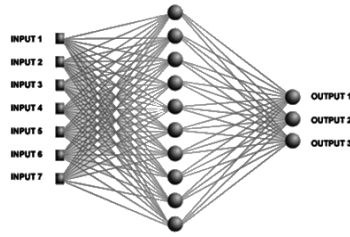
- Artificial Intelligence and Statistical methods are used to detect Anomalies in equipment and processes.
- OEM independent solution - analyzes data of all critical equipment – rotating as well as non-rotating
- Seamlessly interacts with industry standard historians and data sources like OSI PI, MS SQL, OPC etc.
- Can easily incorporate new “plug-ins” to talk to non-standard historians based on customer requirements
- Can analyze historical data as well as current data (online mode)
- Can run “offline” for simulation and testing purposes
- Very little software footprint. Runs as a service in the background and needs very little user intervention.
- Can run on regular desktops/laptops.
- Single instance of ProcDNA™ can execute calculations of multiple projects sequentially – minimizes the cost of deployment for fleet owners



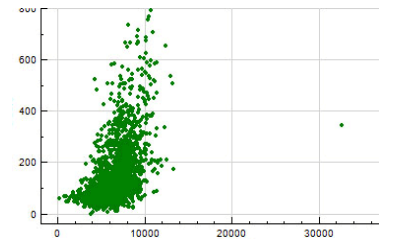
# Inputs



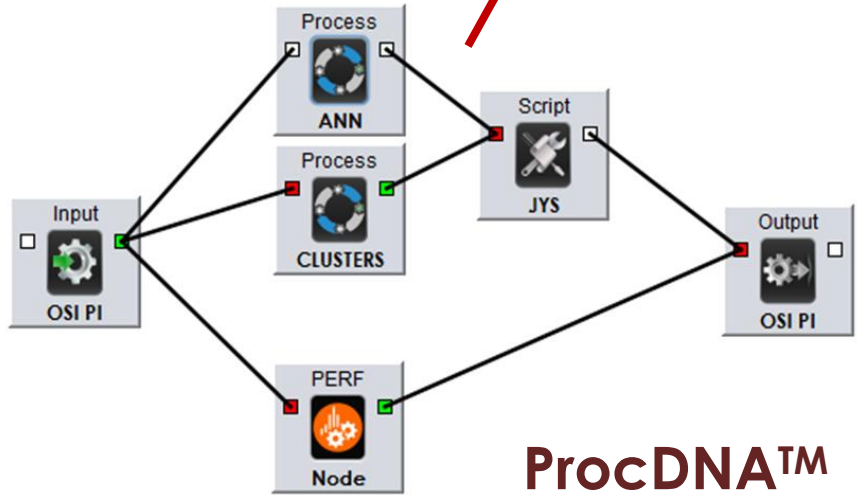
MS Excel



Neural Networks

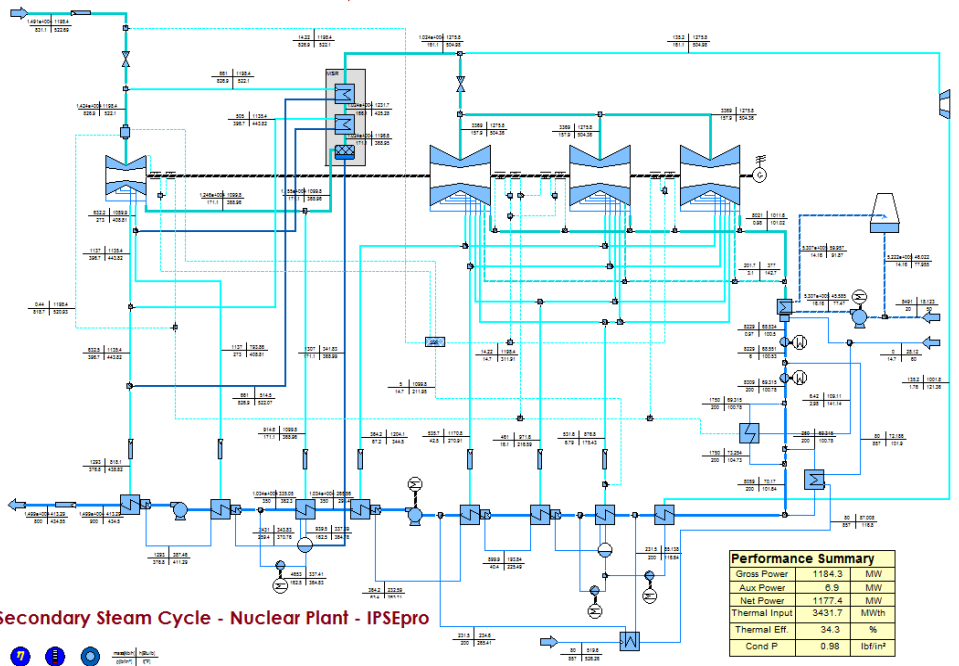


Clusters



ProcDNA™

- Modeling
- Online Analysis
- Diagnostics
- Alerts & Notifications
- Offline Simulation
- Remote Monitoring



Secondary Steam Cycle - Nuclear Plant - IPSEpro

Thermodynamic Models

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