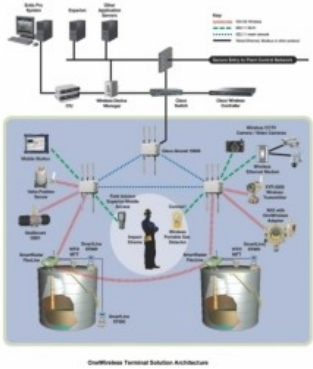
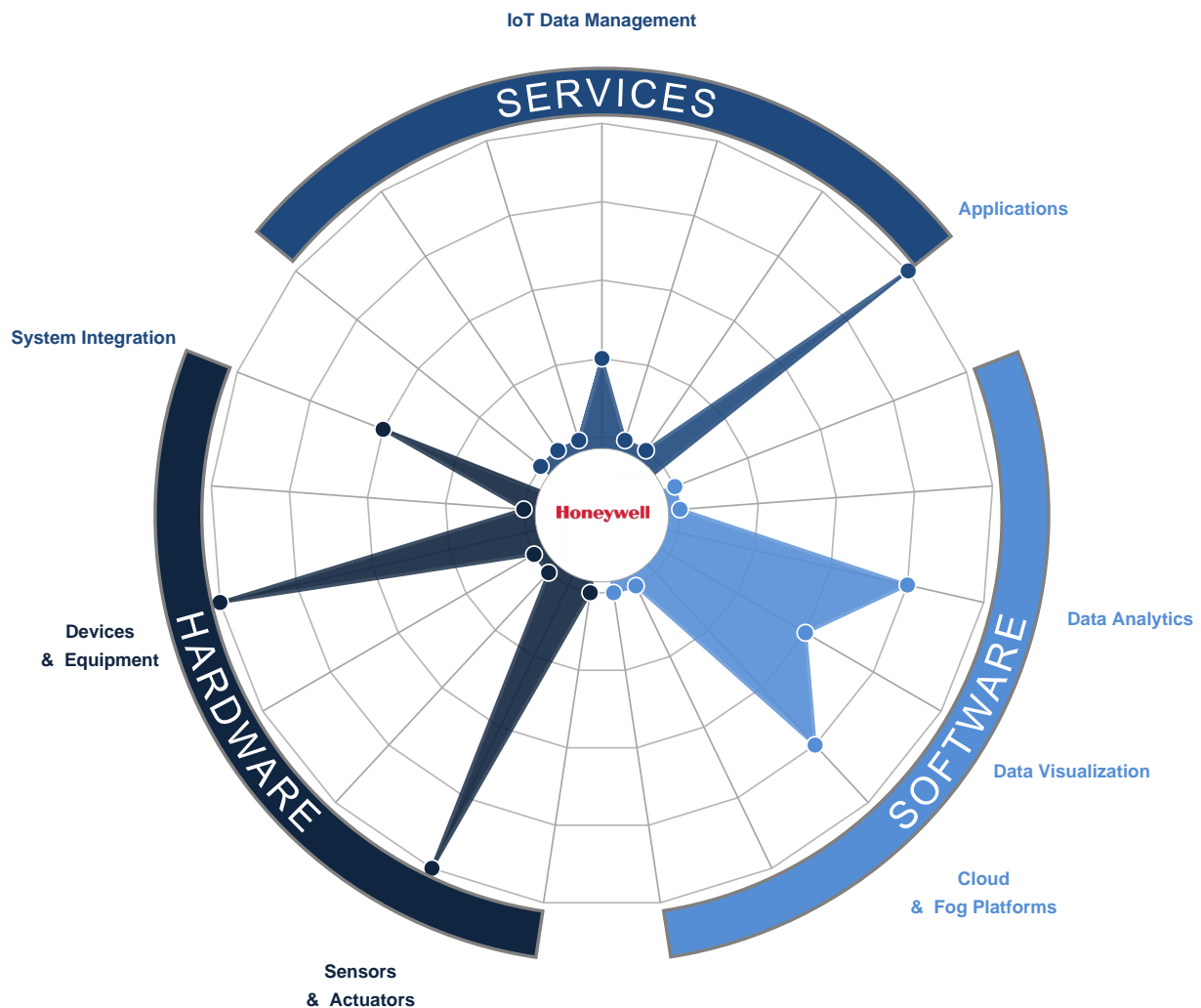


Honeywell

+



OneWireless Enabled Performance Guarantee Test



Overview

Applicable Industries



Smart Grid

Applicable Functions



Quality Assurance



Maintenance



Production - Manufacturing

Connectivity Protocols



Modbus



Other frequency

Other Frequency

HART, ISA 100 wireless

Challenge

Tata Power's power generation equipment OEMs (M/s BHEL) is required to provide all of the instrumentation and measurement devices for conducting performance guarantee and performance evaluation tests.

M/s BHEL faced a number of specific challenges in conducting PG tests: employing high-accuracy digital communications for instrumentation, shortening setup and dismantling time, reducing hardware required, making portable instrument setup, avoiding temporary cabling work and the material waste costs

Customer

Tata Power is India's second largest private power producer and is part of the Tata Group with more than 4,100 employees. The core business of the company is to generate, transmit and distribute electricity.

Solution

Honeywell XYR 6000 wireless temperature, pressure and flow transmitters were installed at various process points to measure key process parameters. Multinodes were installed at vantage points within the power generation unit, and all data was made available for real-time visualization, trending/historization reports and data export to Microsoft Excel. The Experion platform was used for data logging,

analysis and reporting to support the PG test procedure.

Hardware Components

- Honeywell XYR 6000 transmitter
- MultiNode
- WSG

Software Components




- Honeywell Experion platform

Data Collected	Process parameters, including temperature, pressure, flow
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Solution Type	M2M
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Solution Maturity	Mature (technology has been on the market for > 5 years)
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Operational Impact

-
- | | | |
|---|-----------|--|
|  | Impact #1 | Remote Device Diagnostics - Real-time status reports enable maintenance personnel to remotely diagnose the status of a device which reduced CAPEX and OPEX required for conducting PG tests. |
|---|-----------|--|
-
- | | | |
|---|-----------|---|
|  | Impact #2 | Data Accuracy - High-accuracy measurements from instruments with a digital communications capability by the solution. |
|---|-----------|---|
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- | | | |
|---|-----------|---|
|  | Impact #3 | Time-to-Market - Programming time, production time, and installation time are shortened which reduced indirect costs. |
|---|-----------|---|
-

Quantitative Benefit

-
- | | | |
|---|------------|--|
|  | Benefit #1 | Wireless technology would help save a total of \$4.7M. |
|---|------------|--|
-
- | | | |
|---|------------|--|
|  | Benefit #2 | The entire OneWireless infrastructure was installed and commissioned in just 2 |
|---|------------|--|
-

days.



Benefit #3

Indirect cost caused by the end-customer can be reduced by 50% due to reduction in cycle time and increase in test efficiency.



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