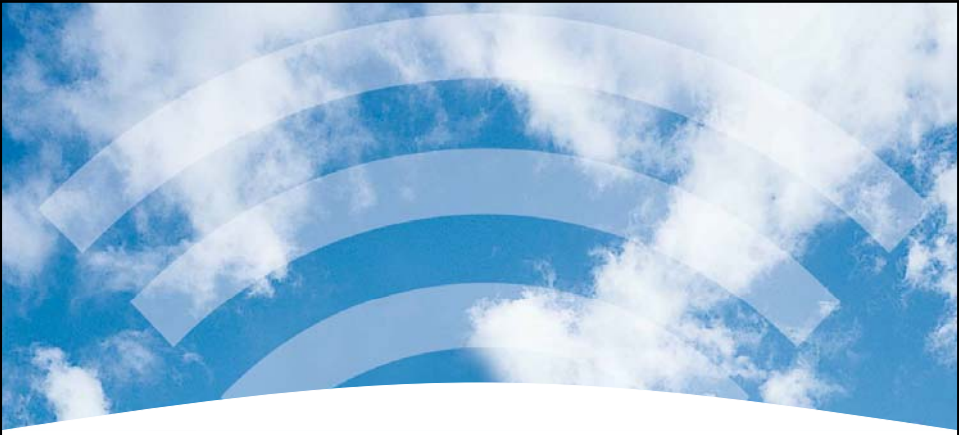




Honeywell OneWireless 无线技术解决方案

无线技术的工业应用 – 释放可能成为现实!

技术支持: 卢焕青

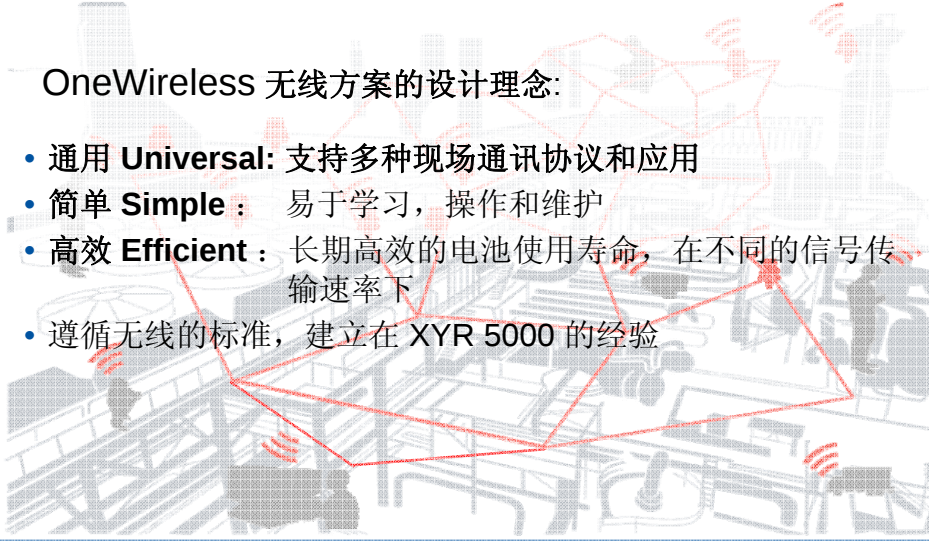
Honeywell

Honeywell

Honeywell's OneWireless 无线技术解决方案

OneWireless 无线方案的设计理念:

- 通用 **Universal**: 支持多种现场通讯协议和应用
- 简单 **Simple**: 易于学习, 操作和维护
- 高效 **Efficient**: 长期高效的电池使用寿命, 在不同的信号传输速率下
- 遵循无线的标准, 建立在 XYR 5000 的经验



2

OneWireless – Available Now

今日议程



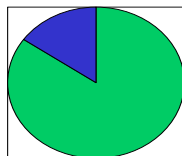
- Why Wireless
为什么要使用无线技术?
- Honeywell Wireless Leadership
Honeywell在无线领域的先驱
- Why Honeywell OneWireless?
为什么选择HoneywellOneWireless?
- Getting Started
如何开始?

这是你所需要的唯一的网络!

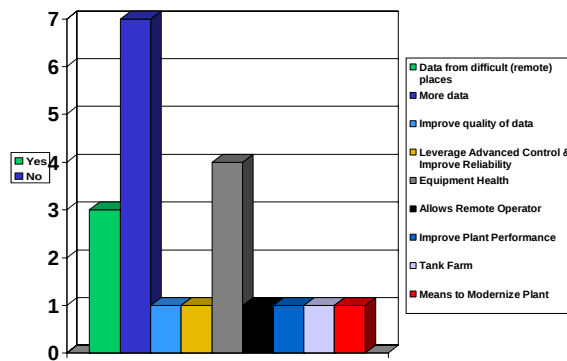
3

客户的反馈

- 你是否相信无线技术的性能可以提升企业营运能力 (例如把更多的信息加入你的先进控制应用)?



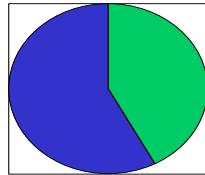
85% 的回答是 "Yes"



4

客户的反馈

- 你的企业今天有应用无线技术的计划吗？



■ Yes
■ No

Companies with a wireless strategy include:

- | | | |
|------------|-------------|--------------|
| 1. Worsley | 5. Alcoa | 9. COP |
| 2. Sunoco | 6. Marathon | 10. Invista |
| 3. Suncor | 7. Syncrude | 11. Lyondell |
| 4. Shell | 8. Dow | |

- 在不久的将来你是否有计划使用无线技术？
 - 90% 回答是的, remainders planed to implement on a local level

5

Standards Update
无线技术标准的更新

Honeywell

SP 100 标准的更新

- **范围** (.11a, Release 1)
 - Process Industry Focus, In-plant/near-plant, Global Deployment
 - Class 1 (Non-Critical Control) to Class 5 Monitoring Applications
 - 2.4 GHz 802.15.4 (2006) Radio only (NBFH Release 2)
 - Single Application Layer for Native and Tunneling Protocols (Provides Universality)
 - Device Mesh and Star Configurations
- **时间进度** (.11a, Release 1)

– Preliminary Draft	July 26, 2007
– SP100.11a Draft Standard	October 5, 2007
– SP100 Committee 1 st Ballot	January 31, 2008
- **协议制定成员**
 - Leader: Pat Kinney (Kinney Consulting), System: Dan Sexton (GE), PHY: Kevin Towers (Omnex), MAC: Chris Herzog (STG), UDLs: Jay Werb (Seniscast), Network/Transport: Karl Heubaum (Freescale), Application: Bill Hodson, Alex Chernoguzov advisor (Honeywell), Gateway: TBD, Security: Tom Phinney (Honeywell) Jeff Potter (EMR), Network Management: TBD
- **演示系统 at ISA 2007**
 - Multi-Vendor
 - Multi-Application

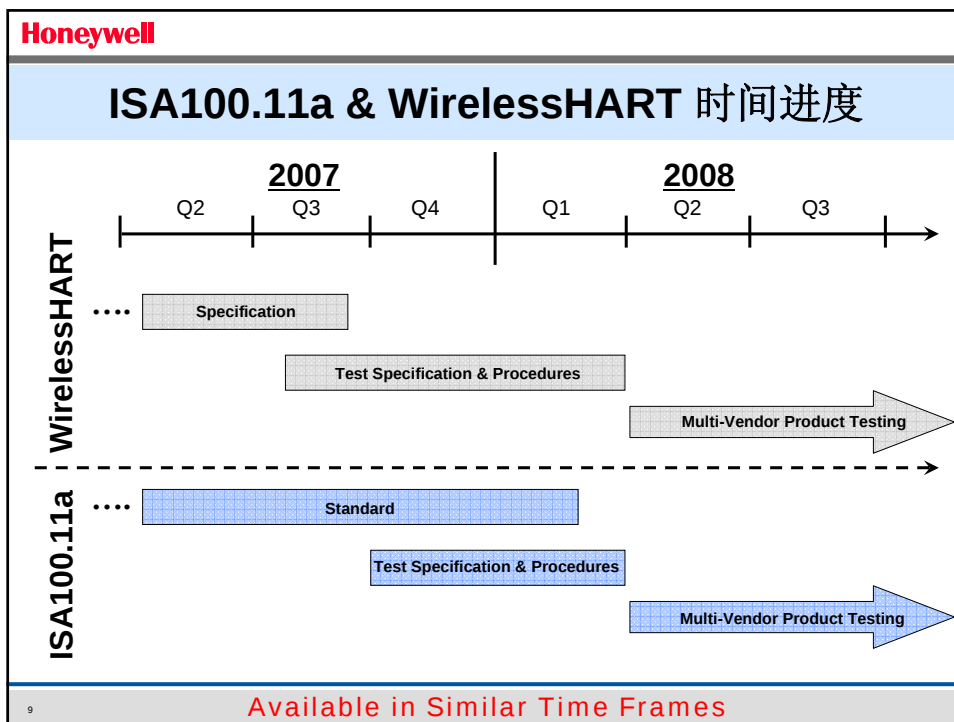
通用的工业标准

无线HART 规范的更新

- **范围**
 - Secure, reliable wireless communication for entire range of HART-enabled measurement and control field devices and systems
 - 2.4 GHz for global application – IEEE 802.15.4b
 - Mesh networking technology
 - Wireless AP – gateways, control system interfaces and hand-held tools
 - No special engineering or installation requirements
- **时间进度**

– Preliminary Draft	April, 2007
– Draft Specification for Ballot	June, 2007
– Specification	August, 2007
- **Editing Team**
 - Leader: Wally Pratt (HCF), Mark Nixon (EMR), Robin Pramanik (Siemens), Tom Phinney (Honeywell), Garth Johnston (ABB)
- **演示系统 at ISA 2007**
 - Multi-Vendor
 - Single Application (HART)

优化HART的使用



Honeywell

Honeywell 无线技术的先驱

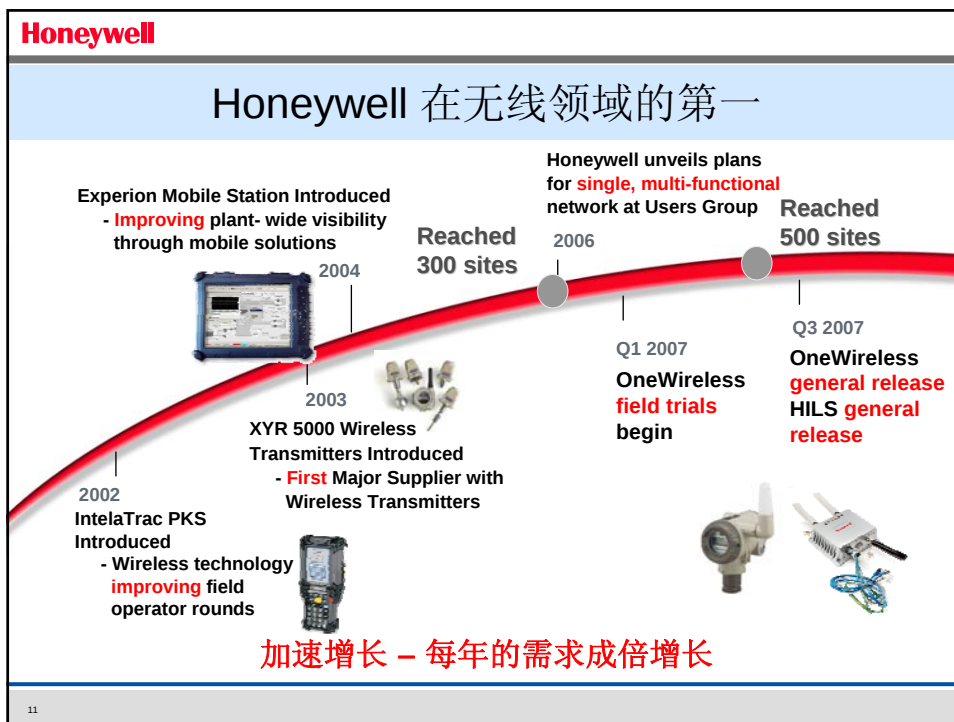
- XYR 5000 无线变送器 在 2003 问世，至今安装超过500个用户
- Selected by US Department of Energy for industrial wireless research and solution development
- 已经取得并正在申请超过300+ 个无线技术的专利

35 million 无线传感器安装在各种工业现场.

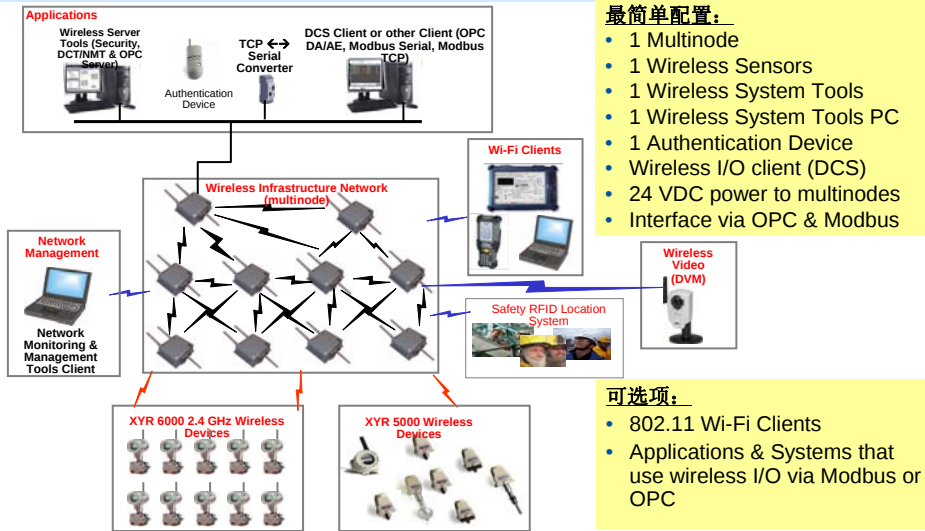
客户应用包括:

- Tank Farms
- Safety Showers
- Leak Detection
- Corrosion
- IntelaTrac PKS
- Mobile Operators

我们精通无线技术

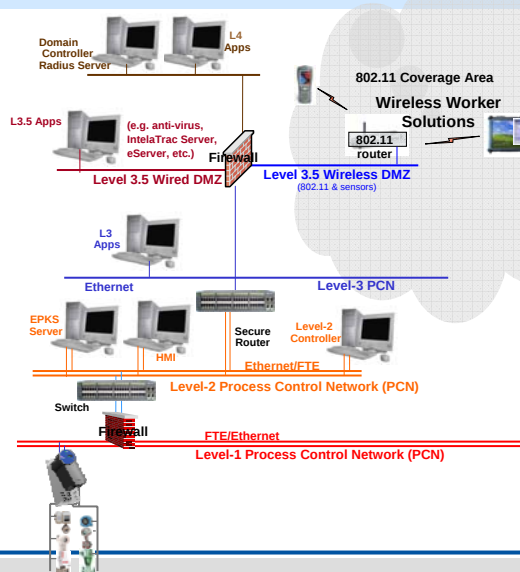


OneWireless 无线解决方案的组件

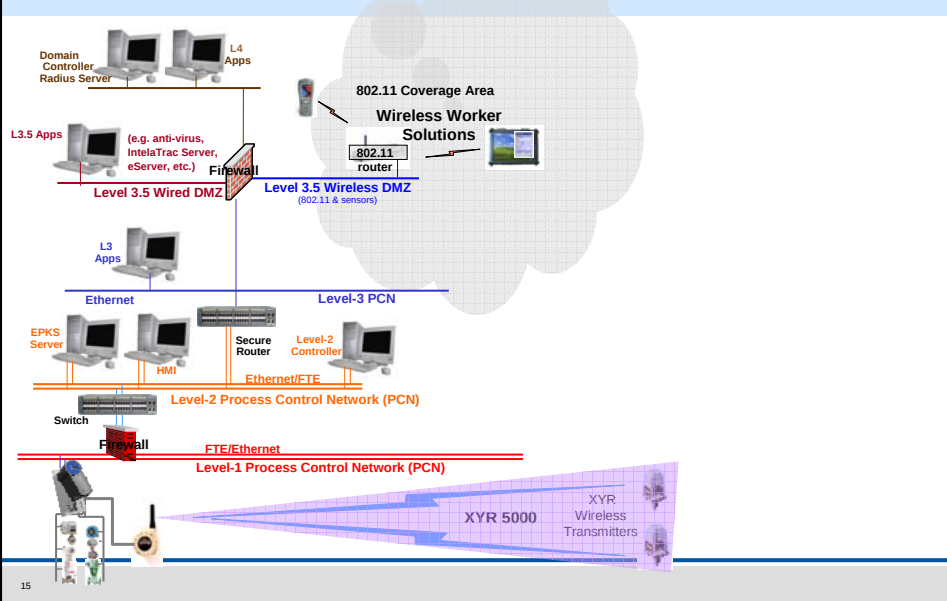


灵活, 易于扩展的网络结构

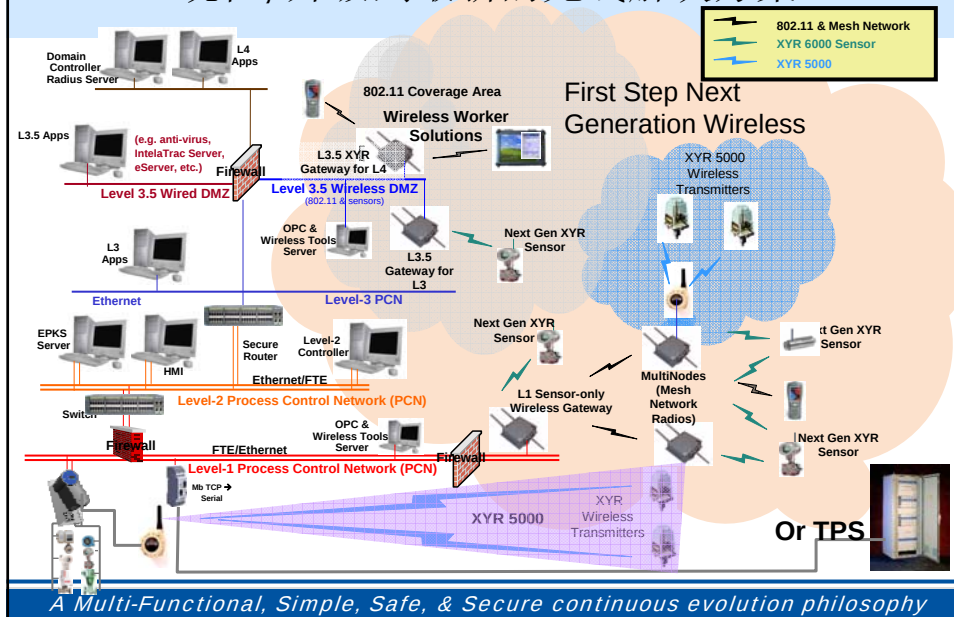
从现场的无线操作员开始



加入 XYR 5000 无线变送器...



现在, 升级到最新的无线解决方案



OneWireless 无线解决方案的组件

- XYR 6000 仪表
 - 腐蚀检测
 - High level analog input (4-20 mA) 模拟量输入
 - 表压力
 - 差压
 - 温度
- Wireless Server Tools 无线服务器工具
- Multinode 多功能接点



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OneWireless 2.4 GHz Solution

OneWireless 无线网络

- Multi-Node 多功能节点 (WiFi, 802.11a,b,g, 2.4GHz FHSS)
 - Router/Repeater
 - Multi-Node Gateway/Ethernet Switch
 - AP (Access Points)
 - Backhaul

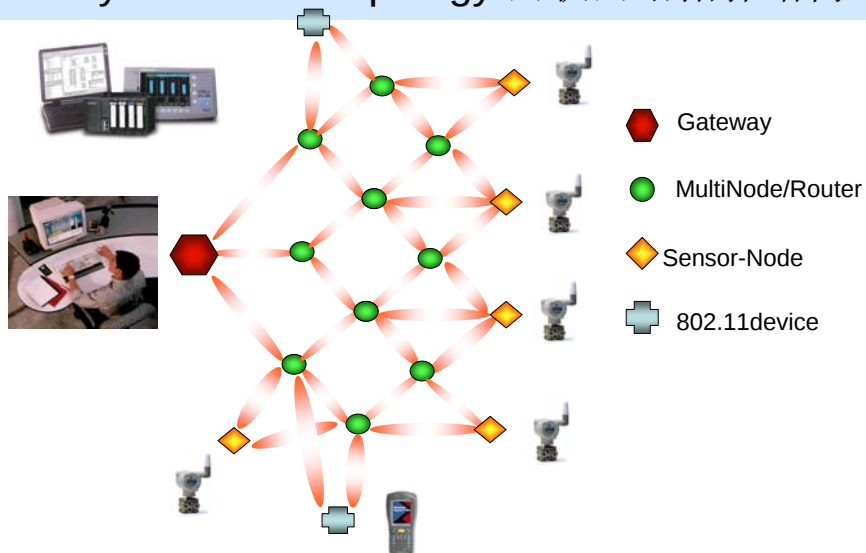


- 传感器 2.4 GHz FHSS 调频扩频
 - 变送器

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Leafs to iNode, iNode to system.....its that easy.

Hybrid Mesh Topology 网状网络拓扑结构



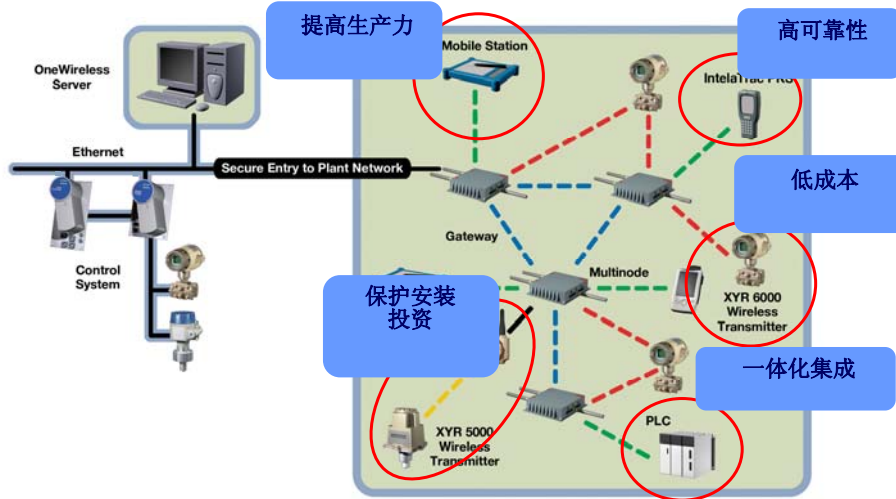
19

OneWireless 无线方案应用领域



全厂范围创造价值

为什么选择 OneWireless 无线网络？



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Customers Don't Buy Wireless, They Buy Value

今日议程



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全厂范围规划



- 步骤 1: Honeywell 根据用户的需求设计解决方案.
- 步骤 2: Honeywell 实施交钥匙工程.
- 步骤 3: Honeywell 提供维护和服务.

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OneWireless Starter Kit 无线方案套件



- 第一套使用在澳大利亚的钢铁企业
- 系统和网络设计
- Starter kits – 低风险启用
 - \$7,500
 - 20 分钟完成系统设置

Taking Orders Now

24

Honeywell

Honeywell's OneWireless Solution



Universal 通用 – 一个平台支持多种现场通讯协议和应用

Simple 简单 – 一套系统, 易于学习, 操作和维护

Efficient 高效 – 一个灵活, 高效的网络

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OneWireless – Available Now

Honeywell

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www.honeywell.com