VOYAGE2007

Everything But the Kitchen Sync – What Smart Connectors Will Do for You

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Agenda

- Existing Data Collection Technology
- Need for a Smart Connector
- Smart Connector Goals
- Demo New Smart Connector
- Smart Connector Benefits

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Existing Data Collection Technology

Cornerstone for Data Collection

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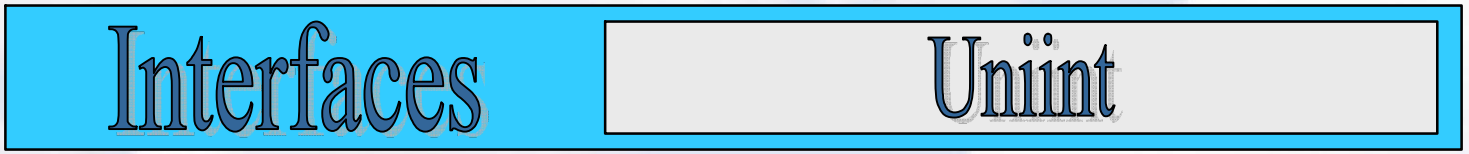
Existing Data Collection Technology

Universal Interface Template



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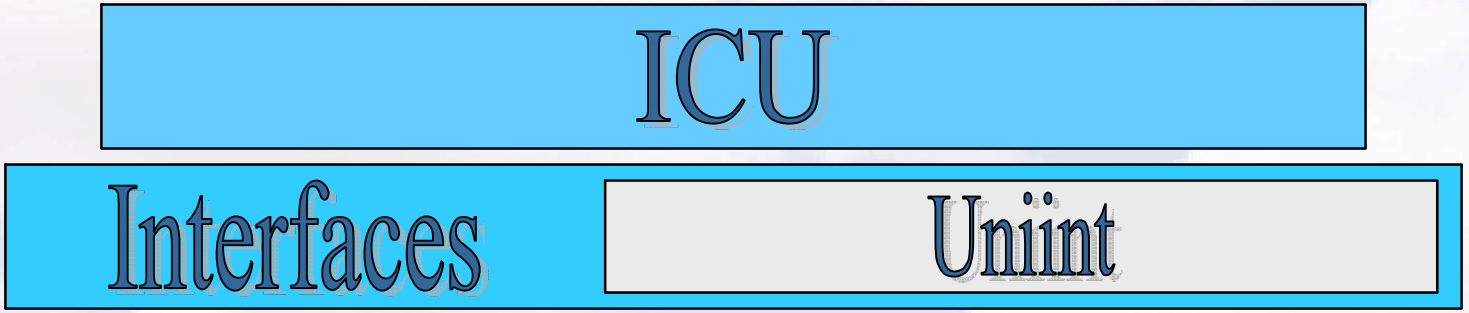
Existing Data Collection Technology

Interface Configuration Utility



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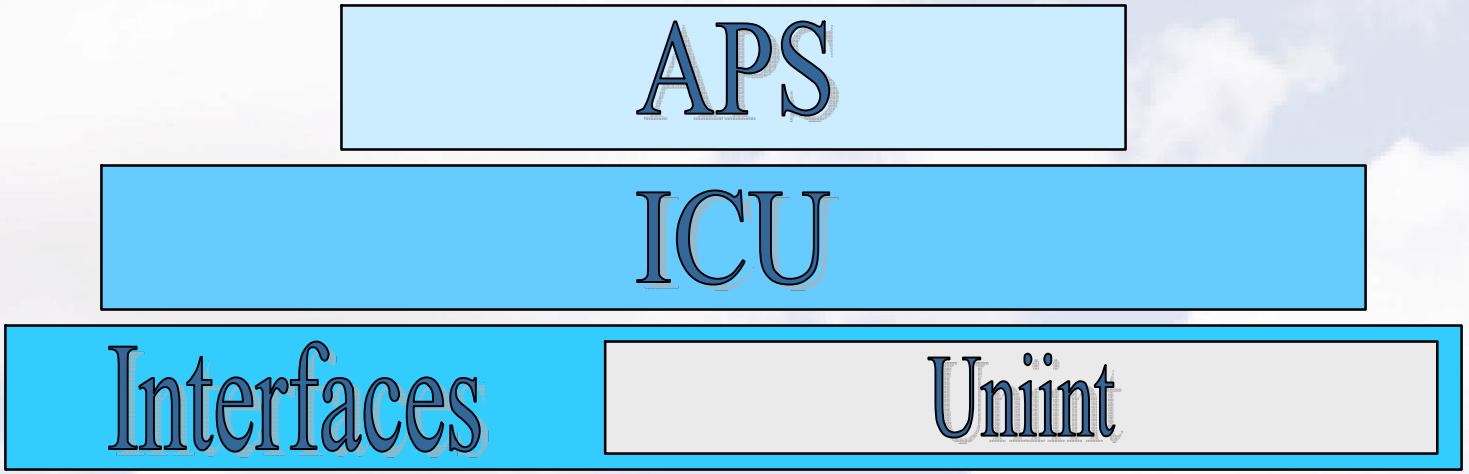
Existing Data Collection Technology

Auto Point Synchronization



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Advanced Interfaces

- Do more than just collect data…also build points
  - Universal File Loader (UFL)
  - Batch File
  - ESCA HabConnect A&E
  - Others…
- …and create PI Modules
  - EVT

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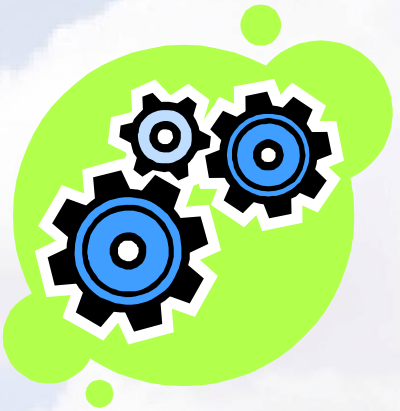
Components for Advanced Solutions

- Interfaces and APS Connectors distributed separately
  - Intellution FIX
  - GE Cimplicity
  - Emerson Ovation
  - OPC DA
  - OPC Alarms & Events



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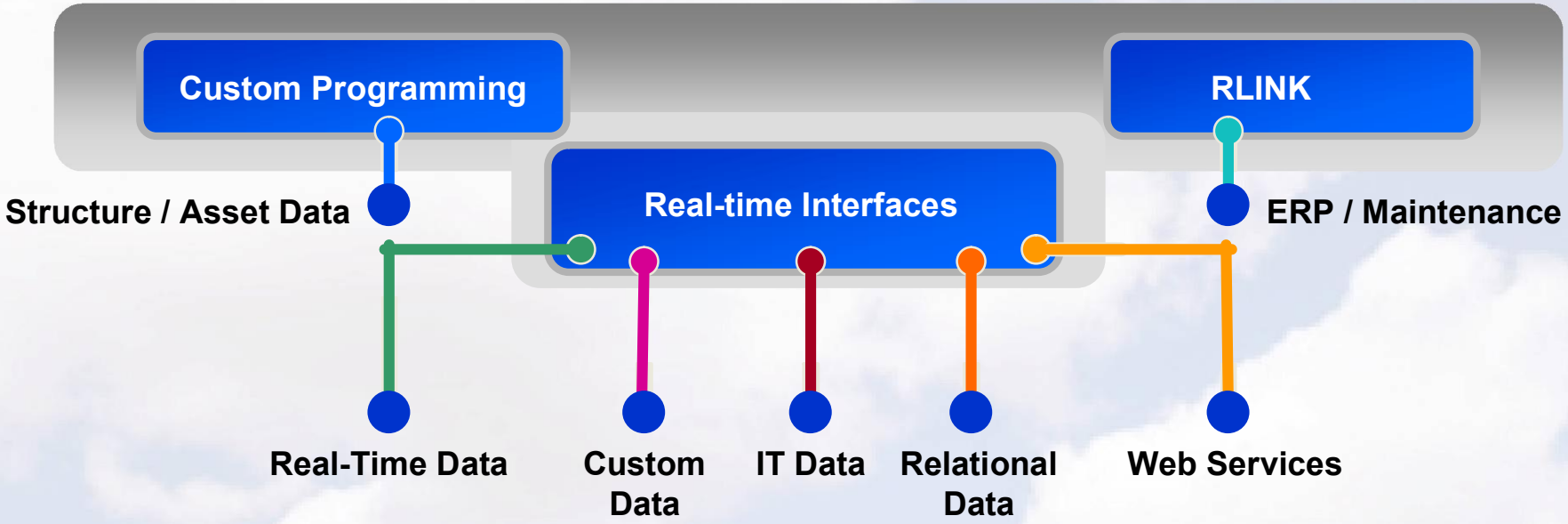
Traditional Data Collection Architecture



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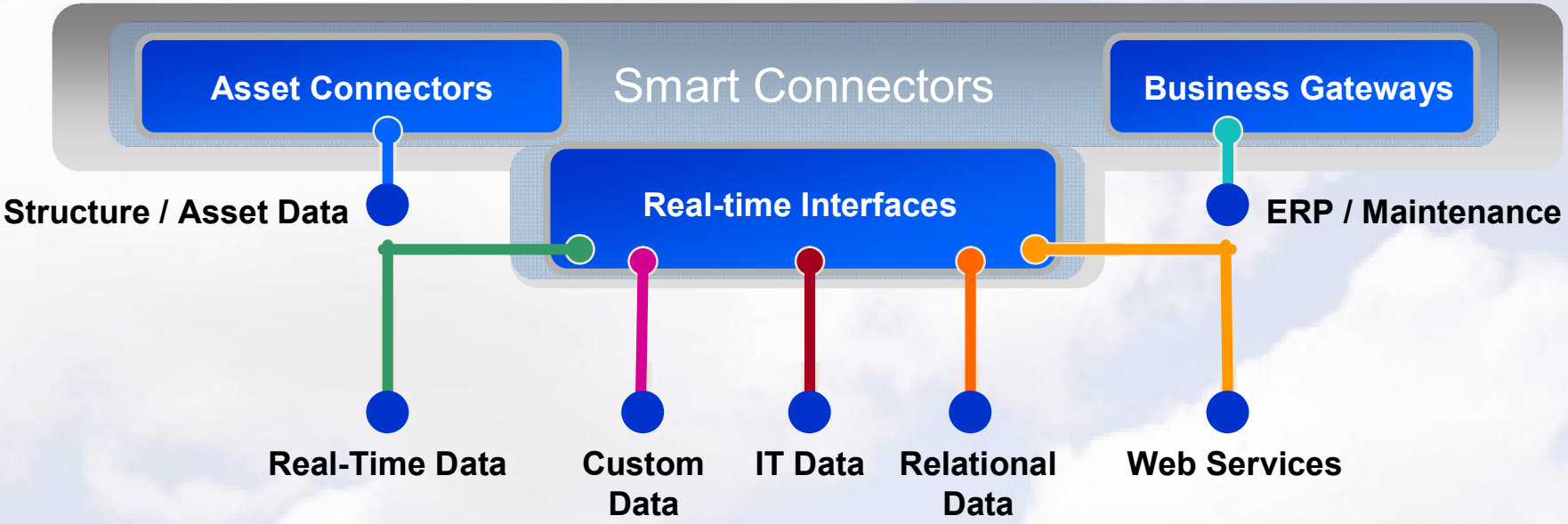
New Data Collection Architecture



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What is a Smart Connector?

- Umbrella concept consisting of all existing and future ways of:
  - Configuration
  - Data exchange
- Foreign systems supply:
  - Point configuration data
  - Real-time data
  - Alarm & Event data
  - Relational data
  - Meta data
  - Hierarchy (context)

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Intellution FIX

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DeltaV

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  - **Hierarchy (context)**

Maximo

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Smart Connector User Experience

- Smart Connectors will unify all products for a foreign system
  - Installation
  - Configuration
  - Management

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Asset Connectors

- New product offering
- Keeps asset definitions in sync
  - Maintains the asset hierarchy
- Re-use of asset structure
- Asset Connector
  - Discovers all items in foreign system
  - Creates corresponding assets in AF 2.0
  - Periodically / event-driven synchronization

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Benefits of Smart Connectors

- Simplify system administration
  - Minimizing user interaction
- Ability to gather everything a foreign system has to offer
- Preserve existing System of Record
  - Using AF 2.0

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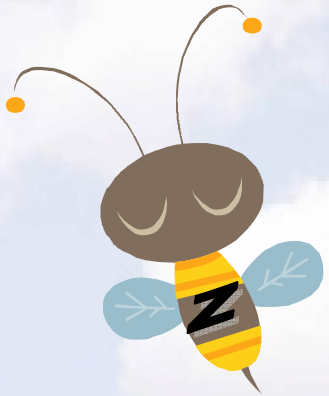
New Smart Connector (In Development)

- OKI Smart Connector for ZigBee Networks
  - One process with multiple functionalities
    - Data collection
    - Point creation
    - Asset creation



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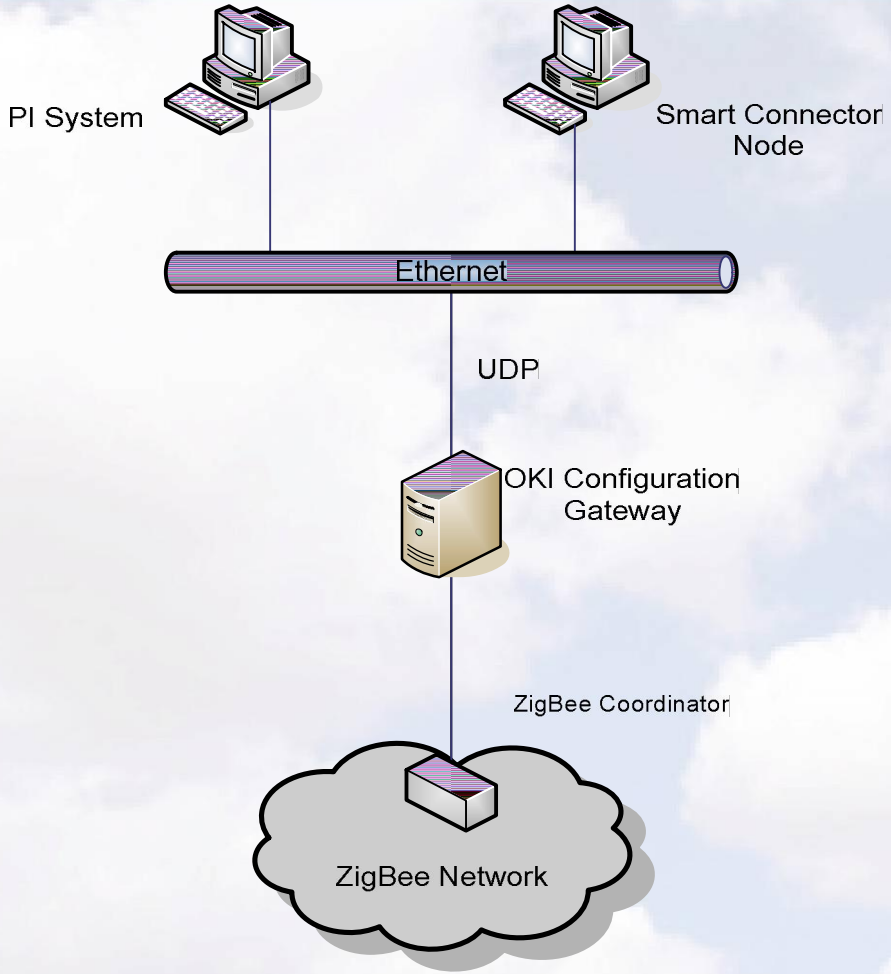
Architecture for OKI Smart Connector



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Summary

- OSIsoft has…
  - Vast experience in communicating with foreign systems
- Smart Connectors…
  - Part of OSIsoft's ongoing goal to improve the customer experience
  - Add more value to real-time data through integration with asset data

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Questions

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