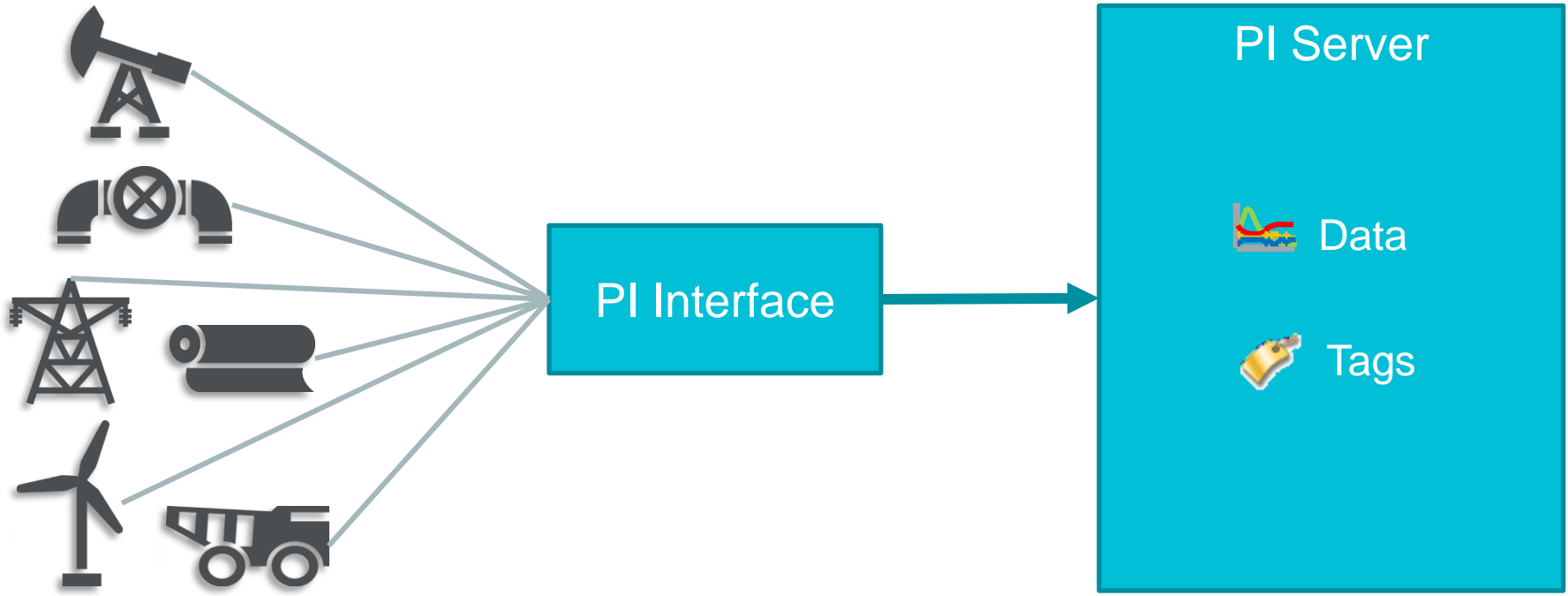


Intelligent PI Connectors™ : Raise the IQ of Your Data Sources

Presented by **Rene Thomassen**

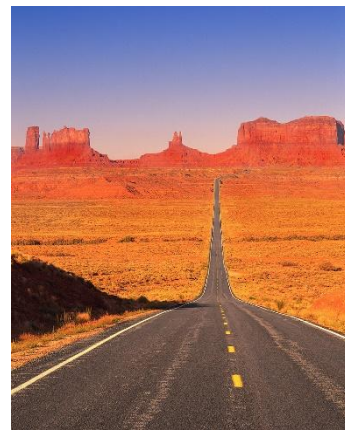
PI Interfaces:

Proven and reliable data collection



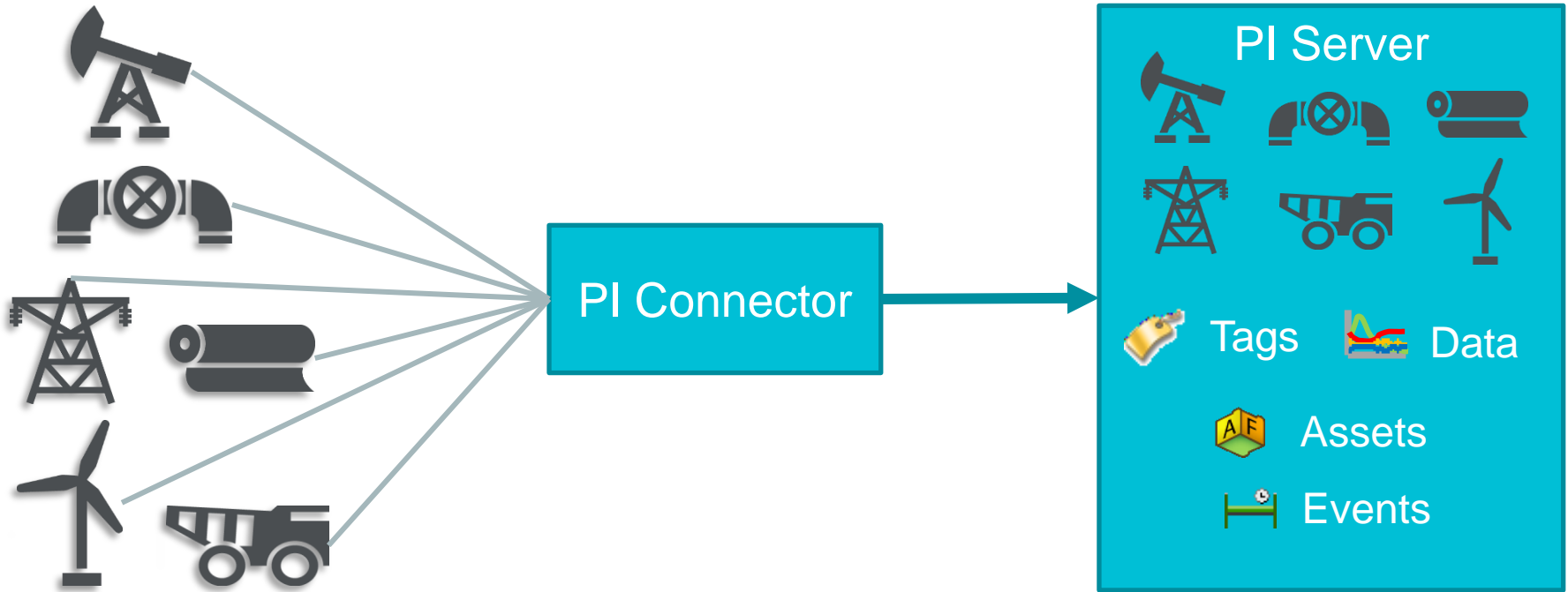
Challenges we have heard

- Spend lots of time configuring tags
- Challenging to configure interface
- Time consuming to build an asset model
- Collect high speed data
- Collect data from many new systems



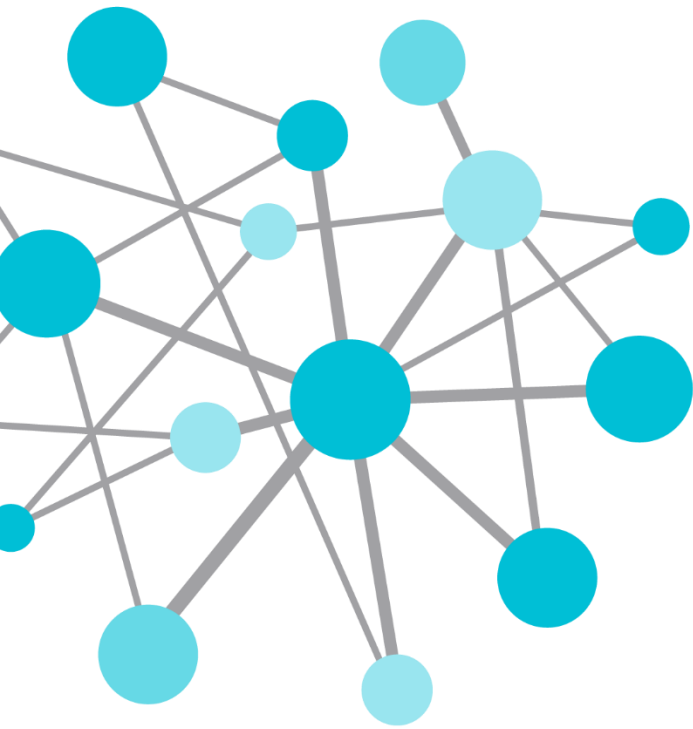
PI Connectors:

Strong connections to your data sources



Advantages of PI Connectors

- Auto-create assets and tags
- Auto-discovery of assets and tags
- Collect event data type (PI Event Frames)
- Simple configuration
- Higher speed
- Ability to run on Linux



PI Connectors in action

PI Connector for CygNet



- CygNet, a Weatherford company
- Common SCADA in Oil & Gas upstream



PI Connector for CygNet



- CygNet SCADA system collects data from various assets, such as:
 - Batteries (Oil treatment facilities)
 - Communication Devices
 - Wells
- Real-time data and metadata

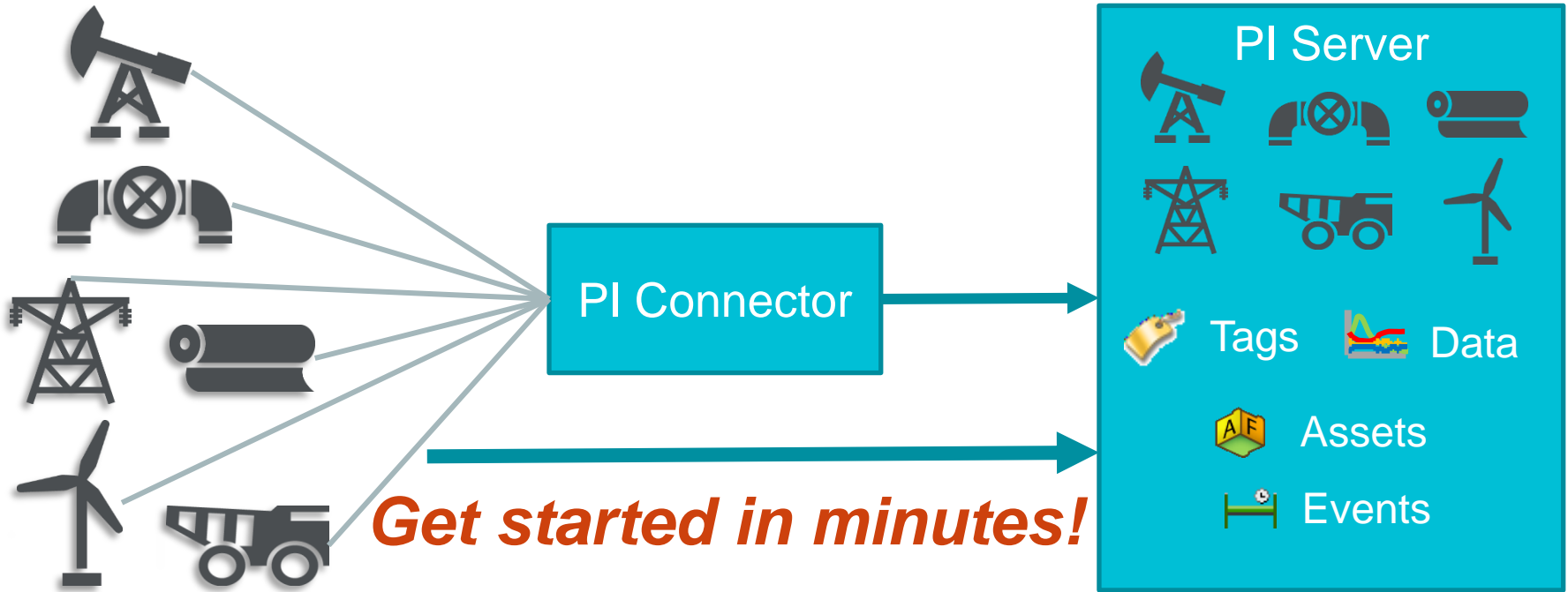




DEMO

PI Connectors:

Strong connections to your data sources



PI Connector for IPMI

**Intelligent Platform
Management Interface (IPMI)**

**Monitors the health of the
system hardware**

**Independent of main
processors, BIOS, and OS**

**Available when the system is
powered down**

IPMI Administration

localhost:8003/DatasourceList

IPMI Connector Administration Site

Simulators Configuration

Data source description (optional)

Test IPMI Simulators

Start Address

123.45.67.1

End Address

123.45.67.254

Port (Default: 623)

623

Username

savannah

Password

••••••••

IPMI Connection Type (Default: AutoDetect)

AutoDetect

Sensor Scan Interval (seconds)

60

} IP address range

Elements

- Elements
 - Connectors
 - IPMI Connector
 - 123.45.67.1
 - Disk Drive Bay (26.3) ROMB Battery
 - Power Supply (10.1) Current 1
 - Power Supply (10.1) Temp
 - Power Supply (10.1) Voltage 1
 - Power Supply (10.2) Current 2
 - Power Supply (10.2) Temp
 - Power Supply (10.2) Voltage 2
 - Processor (3.1) Temp**
 - Processor (3.2) Temp
 - System Board (7.1) 0.9V Over Volt
 - System Board (7.1) 0.9V PG
 - System Board (7.1) 1.5V PG
 - System Board (7.1) 1.8V PG
 - System Board (7.1) 3.3V PG
 - System Board (7.1) 5V PG
 - System Board (7.1) Ambient Temp
 - System Board (7.1) Backplane PG
 - System Board (7.1) CMOS Battery
 - System Board (7.1) CPU Power Fault
 - System Board (7.1) CPU Temp Interf
 - System Board (7.1) CPU VTT
 - System Board (7.1) FAN 1 RPM
 - System Board (7.1) FAN 2 RPM
 - System Board (7.1) FAN 3 RPM

Processor (3.1) Temp

General Child Elements Attributes Ports Version

Group

Filter

	Name	Value	Timestamp
<input checked="" type="checkbox"/>	Entity ID	Processor	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	IPAddress	123.45.67.1	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Lower Critical	—	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Lower Non Critical	—	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Lower Non Recoverable	—	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Nominal Reading	50	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Normal Maximum	69	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Normal Minimum	11	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Scaled Reading	87	3/19/2014 4:40:15.53 PM
<input checked="" type="checkbox"/>	Sensor Accuracy %	1.94	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Sensor Direction	unspecified	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Sensor ID	Temp	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Sensor Maximum	127	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Sensor Minimum	-128	1/1/1970 12:00:00 AM
<input checked="" type="checkbox"/>	Sensor Status	OK	3/19/2014 4:40:15.53 PM

PI Connector for EtherNet/IP



- EtherNet/IP standard managed by ODVA
- Industrial Protocol over Ethernet based on CIP

PI Connector

- Class 1 messages
- High rates (<10millisecond)

PI Server



Tags



Data



Assets



Events

← → http://localhost:8002/DatasourceList

EtherNetIp Administration x

EtherNetIp Connector Administration Site

Demo_Slot_0000 Configuration

Data source description (optional)

Demo_Slot_0000 Description

InputId

1

OutputId

2

ConfigurationId

3

Address

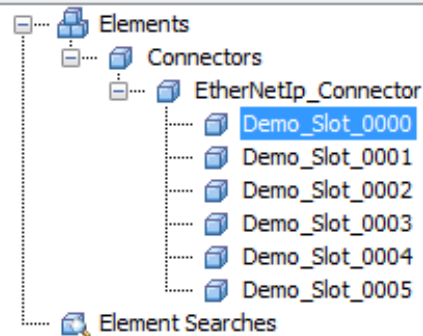
0

CommFormat

DINT ▼

Save [Cancel](#)

Elements



Demo_Slot_0000

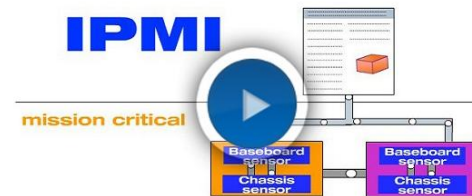
General Child Elements Attributes Ports Analyses Version

Filter




	Name	Value	Time Stamp
	Address	0	1/1/1970 12:00:00 AM
	Configuration	3	1/1/1970 12:00:00 AM
	Input	1	1/1/1970 12:00:00 AM
	Output	2	1/1/1970 12:00:00 AM
	Slot.0	2795	3/19/2014 4:17:20.694 PM
	Slot.1	0	3/19/2014 4:17:20.694 PM
	Slot.10	0	3/19/2014 4:17:20.694 PM
	Slot.100	0	3/19/2014 4:17:20.694 PM
	Slot.101	0	3/19/2014 4:17:20.694 PM
	Slot.102	0	3/19/2014 4:17:20.694 PM
	Slot.103	0	3/19/2014 4:17:20.694 PM
	Slot.104	0	3/19/2014 4:17:20.694 PM
	Slot.105	0	3/19/2014 4:17:20.694 PM
	Slot.106	0	3/19/2014 4:17:20.694 PM

Released

- PI Connector for IPMI
(Intelligent Platform Management Interface)

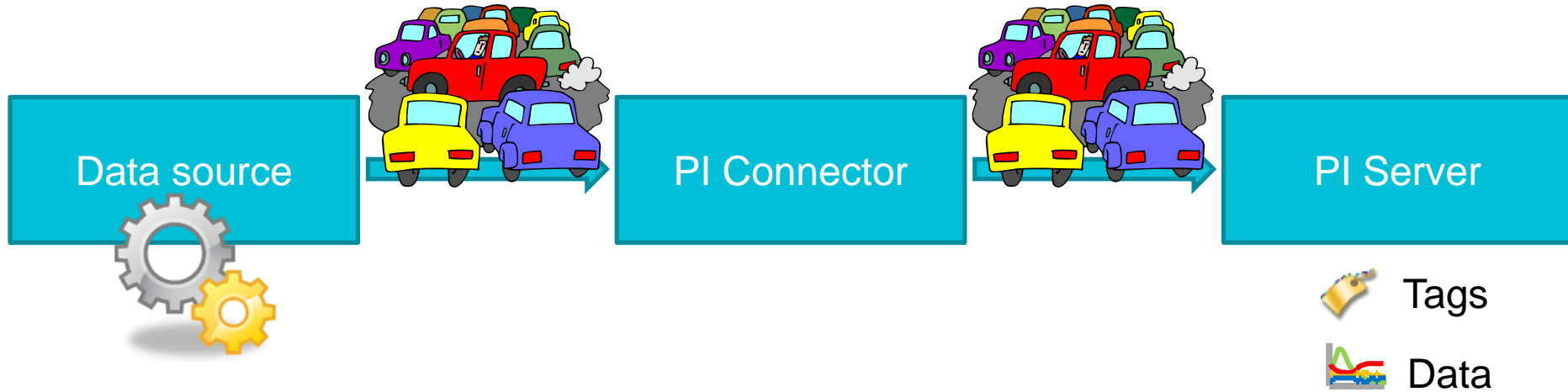


Release plans

- PI Connector for CygNet 
- PI Connector for EtherNet/IP 
- PI Connector for Kongsberg 
- PI Connector for DC Systems RTscada
- PI Connector for Wonderware Historian

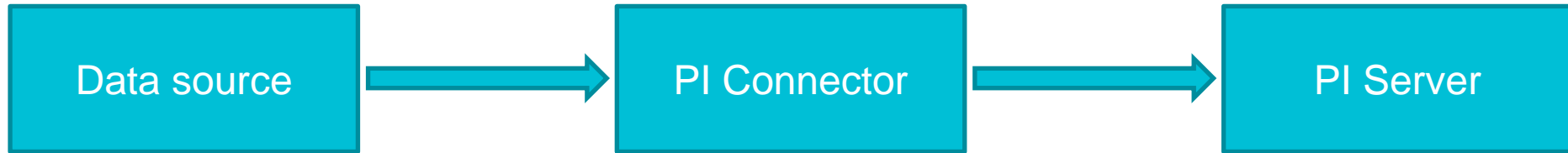


Can I opt out of collecting some of the data?



Can I opt out of collecting some of the data?

GOAL – Make it easy for you to collect data



Under development:

1. Filter out asset types you don't want
2. Filter out data you don't want from a specific asset type
3. Preview of what will be created in PI Server



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