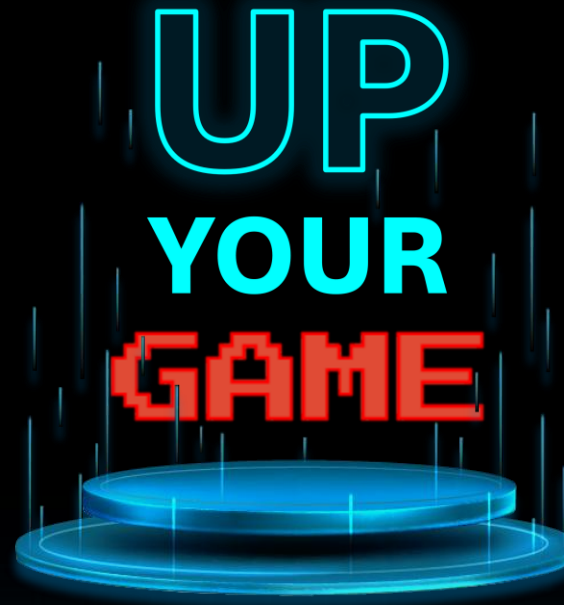




SCADA FEST

ORLANDO | 2026

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Trihedral
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HTTP Publishing - Share Everywhere

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Software Developer



How many of you are familiar with Publisher tags?



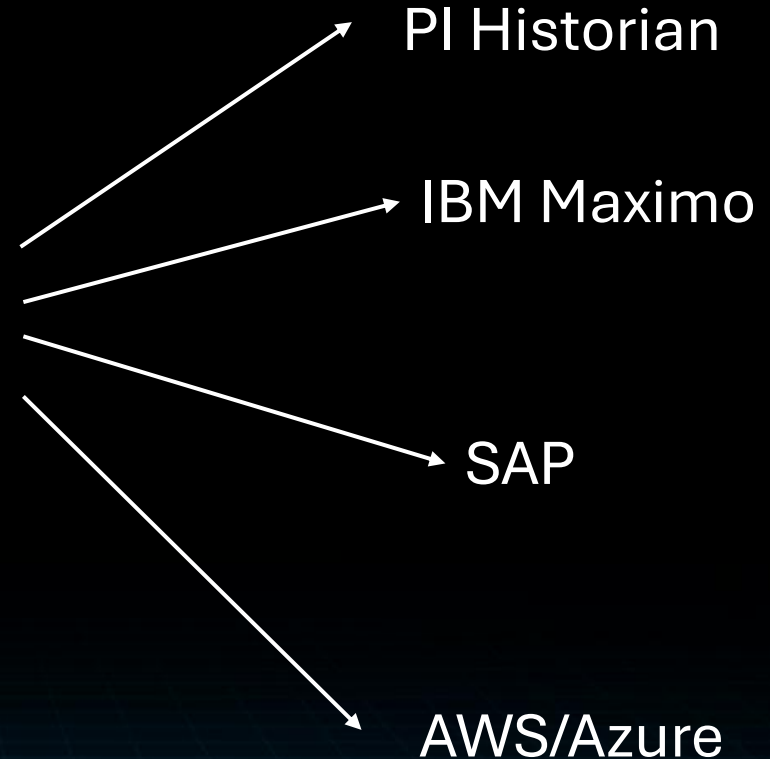
Publishers

- New tag type that enables real-time sharing of I/O tag data across many platforms
- Value, alarm, and configuration data



Supported Publisher Tags

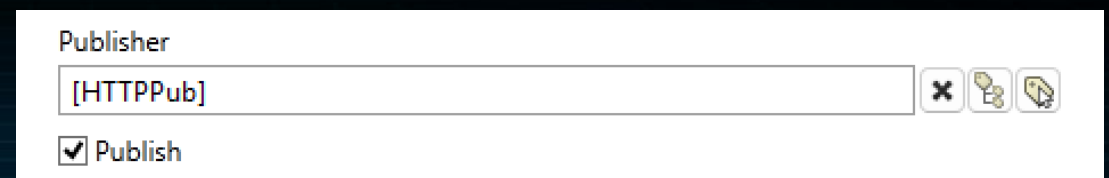
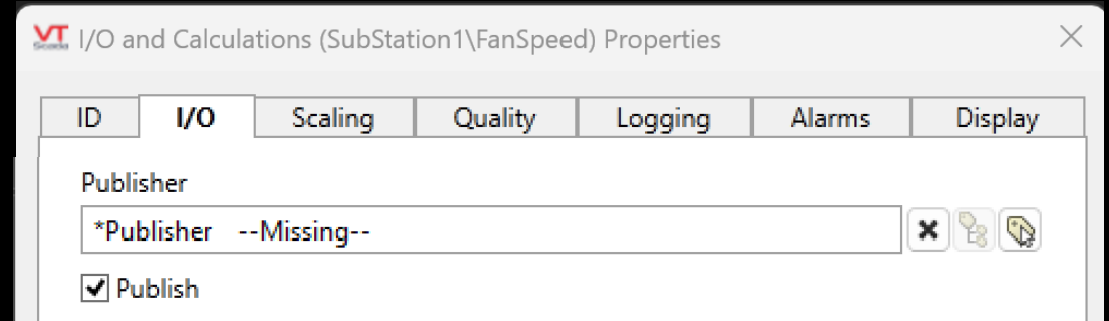
- OPC DA
- OPC UA
- Data Diode
- Spark Plug B (MQTT)
- HTTP





Publisher Configuration

- Link I/O tags to a Publisher tag
- Publisher will send out I/O tag value and alarm data on change





Use Cases – Inventory Management (ERP)



- Track raw material consumption in real time
- Automate re-supply to prevent production stoppages



Use Cases – Condition-Based Maintenance

- Automatically create work orders from VTScada alarms
- Replace static maintenance schedules with **usage-based** work orders





Use Cases – Advanced Analytics



- Publish usage data to optimize assets during peaks for savings
- Securely aggregate multi-site data into one executive dashboard



HTTP Publisher

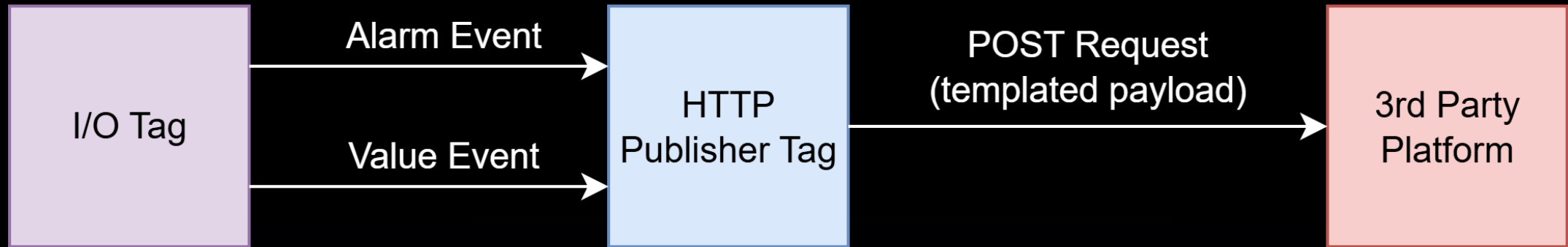


HTTP Publisher

- HTTP is the protocol of the internet
- Easily connects to many different platforms
- Dynamic payloads powered by our new templating engine
- Ability to scope for *any* data relative to the tag

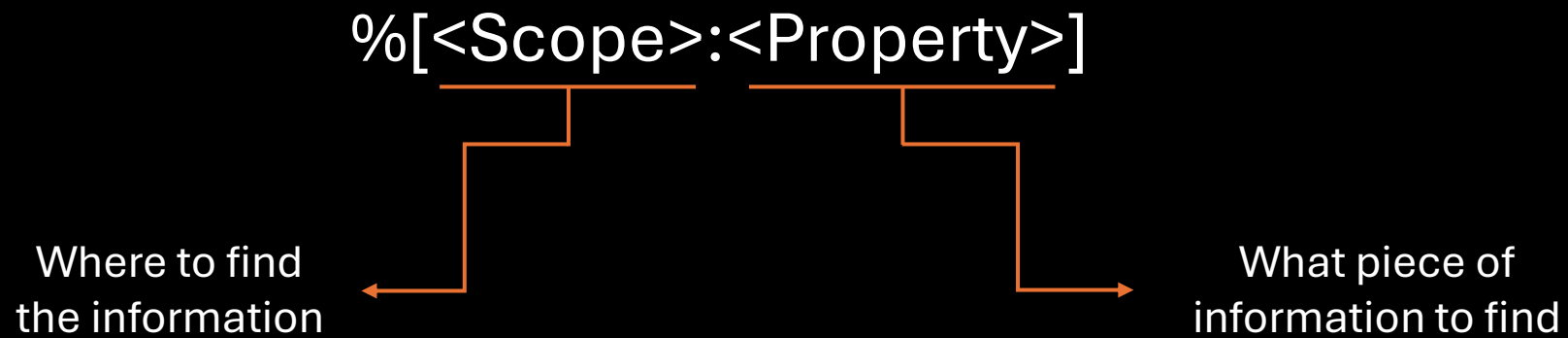


HTTP Publisher





Template Engine





Template Engine

%[<Scope> : <Property>]

- TAG – I/O tag the event is for
- PUB – HTTP Publisher tag
- CFG – I/O tag's static config
- DAT – alarm/value event data

- Name
- Description
- ReadAddress
- ScaledMin/Max
- Value
- IsActive
- Setpoint
- Priority
- ...



Template Engine – Config Info Example

Template

```
{  
  "name": "%[CFG:Name]",  
  "description": "%[CFG:Description]",  
  "scaledMin": "%[CFG:ScaledMin]",  
  "scaledMax": "%[CFG:ScaledMax]",  
  "units": "%[CFG:Units]",  
}
```

Potential Output

```
{  
  "name": "FullTagPath\DifferentialPressure",  
  "description": "The tag's description",  
  "scaledMin": "0",  
  "scaledMax": "100",  
  "units": "mPa",  
}
```



Template Engine – Value Info Example

Template

```
{  
  "shortName": "[%TAG:ShortName]",  
  "value": "[%DAT:Value]",  
  "timestamp": "[%DAT:Timestamp]",  
  "attributes": "[%DAT:Attributes]",  
  "rawValue": "[%DAT:RawValue]",  
  "valueType": "[%DAT:ValueType]",  
}
```

Potential Output

```
{  
  "shortName": "DifferentialPressure",  
  "value": 22.7,  
  "timestamp": 1773577436,  
  "attributes": 8,  
  "rawValue": 22.7,  
  "valueType": 3,  
}
```



Template Engine – Alarm Info Example

Template

```
{  
  "name": "%[TAG:ShortName]",  
  "priority": %[CFG:Priority],  
  "type": "%[CFG:AlarmType]",  
  "setpoint": %[CFG:Setpoint],  
  "active": %[DAT:IsActive],  
  "unacked": %[DAT:IsUnacked],  
  "shelved": %[DAT:IsShelved],  
  "disabled": %[DAT:IsDisabled],  
  "currentValue": %[TAG:Value]  
}
```

Potential Output

```
{  
  "name": "DifferentialPressure",  
  "priority": 2,  
  "type": "HIGH HIGH",  
  "setpoint": 5,  
  "active": 1,  
  "unacked": 1,  
  "shelved": 0,  
  "disabled": 0,  
  "currentValue": 22.7  
}
```



Demo



Thank you for attending this session!

- Fill out the 2-question feedback survey via the App! *Ukova*
- Especially if you need a Continuing Education Credit or Professional Development Hours certificate.
- Don't have the app, fill out the paper form included in your conference kit and hand into Natasha.

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