Intelligent Alarming with the Niagara Analytics Framework
Agenda

• Niagara Analytics Framework: An overview

• Examples:
  — Intelligent alarming
  — Space conditioning energy optimization
  — Simultaneous heating and cooling fault detection

• Live demo

• Resources

• Q & A
New set of **easy-to-use components**, built on Niagara

Makes it easier to **analyze real-time / historical data** in a running Niagara station

- **Intelligent alarming**
  - Eliminate false or noisy alarms

- **Energy optimization**
  - Dynamically update machine controls to ensure optimal operation

- **Fault detection**
  - Diagnose hidden problems
Normalizing data

Any Niagara application

HISTORIES

ALARMING

CONTROLS

Normalized data
## Organizing data

<table>
<thead>
<tr>
<th>Any Niagara application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Niagara Analytics Framework</td>
</tr>
<tr>
<td>Niagara Analytics Framework Data Model</td>
</tr>
<tr>
<td>Normalized data</td>
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</tbody>
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**TridiumTalk**

Intelligent Alarming with the Niagara Analytics Framework
Write logic within the framework

Any Niagara application

Niagara Analytics Framework

Smart Alarms/ Energy optimization / Fault detection

Niagara Analytics Framework Data Model

Normalized data
Live demo
Resources

Intelligent alarm demo station
www.niagara-community.com (TCP group)

Niagara Analytics Framework virtual training
www.tridiumuniversity.com/learncenter

Learn more from Tridium and industry experts
Niagara Summit 2016: www.niagarasummit.com
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