

# A Java-Based Parameter Page

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**(Work by Chip Watson et.al.)**



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*EPICS Collaboration*

*Controls Group*

# What Is a Parameter Page?

- A table of monitored values

	Temperature (degrees C)	Flow (lpm)	Open (%)	PID Control
<b>Valve 1</b>	<b>112</b>	<b>54</b>	<b>50</b>	<b>ON</b>
<b>Valve 2</b>	<b>121</b>	<b>54</b>	<b>45</b>	<b>ON</b>
<b>Valve 3</b>	<b>89</b>	<b>22</b>	<b>32</b>	<b>OFF</b>
<b>Valve 4</b>	<b>67</b>	<b>33</b>	<b>52</b>	<b>OFF</b>
<b>Valve 5</b>	<b>78</b>	<b>19</b>	<b>36</b>	<b>ON</b>
<b>Valve 6</b>	<b>64</b>	<b>40</b>	<b>80</b>	<b>OFF</b>

# The SDM Parameter Page

- **CDEV name services and communication**
- **A Component of the Swing Display Manager (SDM)**
- **Available from the Jefferson Laboratory web site: <http://www.jlab.org/cdev/java>**

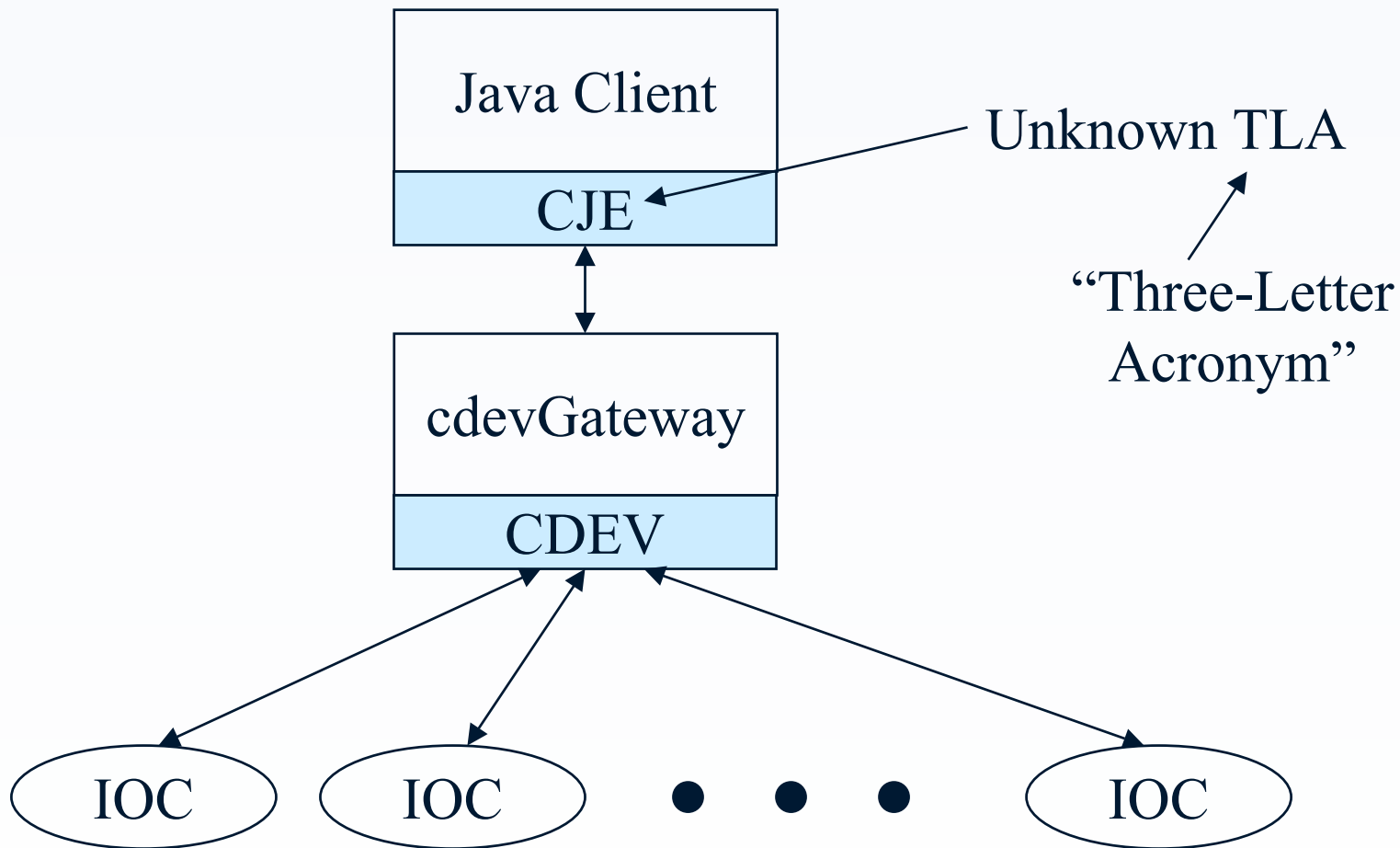


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# A Three-Tiered Architecture



# Why Three Layers?

- **Encapsulate presentation layer**
  - \* **Same look and feel through browser**
  - \* **Isolate GUI**
- **Gateway layer**
  - \* **Enable communication in Java sandbox**
  - \* **Support multiple gateways for different purposes**

# Implementation Features

- **Inherits all behaviors from the Swing table widget**
- **Device/attribute design of CDEV enables the resolution to particular channels**
  - \* **Illustrates need for naming directory services in CA**
- **GUI performance may be limited by the gateway**

# Give Me a Directory Service!

- **Desired features in a CA directory service**
  - \* **Motherhood**
  - \* **Apple pie**
  - \* **Name aliases**
  - \* **Grouping**
  - \* **Wildcarding/regular expression support**