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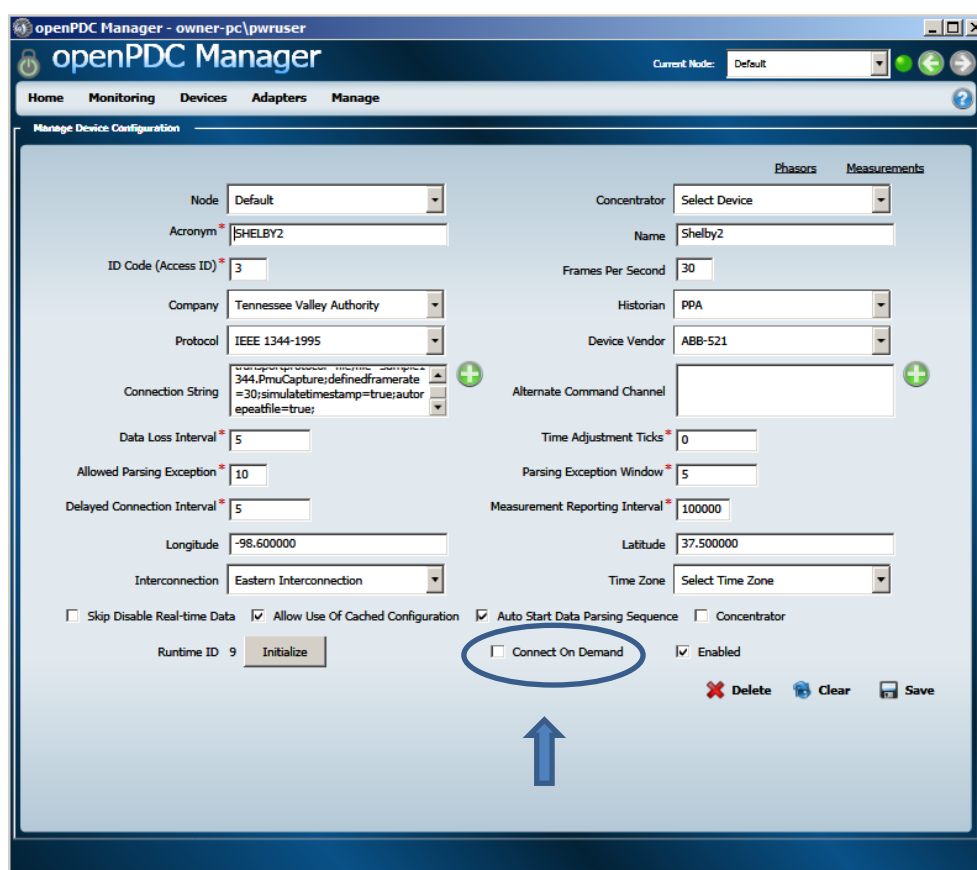
## Proper Use of Connect on Demand

One particular setting, connectOnDemand, can cause gaps in PDC data collection if set incorrectly.

“Connect On Demand” directs this PDC to initialize an adapter for a connection only if one of its data points is requested for subscription. This setting should not be checked (i.e., it should be set to FALSE) for any primary data sources – for example a connection to PMU.

However, Connect on Demand is useful for adapters that are subscribing to data from non-primary sources or provide data that does not need to be persisted. An adapter that creates calculated signals could use the “Connect on Demand” feature.

### The Manage Device Configuration Screen



The screenshot shows the 'Manage Device Configuration' screen in the openPDC Manager application. The interface includes a navigation bar with 'Home', 'Monitoring', 'Devices', 'Adapters', and 'Manage'. The 'Manage' tab is active, showing a 'Manage Device Configuration' window. The window contains various configuration fields for a device, including 'Node', 'Acronym', 'ID Code', 'Company', 'Protocol', 'Connection String', 'Data Loss Interval', 'Allowed Parsing Exception', 'Delayed Connection Interval', 'Longitude', 'Interconnection', 'Concentrator', 'Name', 'Frames Per Second', 'Historian', 'Device Vendor', 'Alternate Command Channel', 'Time Adjustment Ticks', 'Parsing Exception Window', 'Measurement Reporting Interval', 'Latitude', 'Time Zone', and checkboxes for 'Skip Disable Real-time Data', 'Allow Use Of Cached Configuration', 'Auto Start Data Parsing Sequence', 'Concentrator', and 'Connect On Demand'. The 'Connect On Demand' checkbox is circled in blue, and a blue arrow points to it from below. The 'Enabled' checkbox is also checked.

## InputAdapterBase

Key	Value	Default	Description
<code>connectOnDemand</code>	<u>bool</u>	false	Defines a flag that determines if adapter should always be started or only be started when measurements being handled or created are demanded by other adapters in the laon session. <b>Set to false to always start adapter</b> ; otherwise <b>set to true to start adapter only when needed</b> .

## Conclusion

In general, set “Connect On Demand” to FALSE (unchecked) for primary data source adapters (e.g., input adapters for PMUs) and understand the implications when setting this parameter TRUE for other adapters.

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### ABOUT THE AUTHOR

Steve DeGange is a project manager at GPA who has direct utility experience in the installation and maintenance of the openPDC.

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