IIR's IDB API
Industrial Database API

IIR's IDB API (Industrial Database Application Programming Interface) is an add-on Representational State Transfer (REST) Partner API web service that facilitates access to IIR's subscription database service. It was developed to act as an abstract intermediary to allow applications to connect to IIR's GMI (Global Market Intelligence) Database and respond to data requests within the database subscription service. It covers all of IIR's GMI Database product offerings, including industrial assets, key management contacts, capital and maintenance projects and unit maintenance events, along with long-term service agreements for plant contractors.

The IDB API web service is separate from IIR's PECWeb, but does mimic a lot of the functionality by providing similar parameter-driven requests, with endpoints that are similar to the search & profile views available within PECWeb. As the service is intended to be a Machine-to-Machine (M2M) service, it follows industry standards for maximum interoperability. To be more technical/specific, requests are transmitted via HTTPS (RFC 2018), with responses in the JavaScript Object Notation (JSON) data interchange format (RFC 8529). Security is handled at the protocol layer (HTTPS) and via JSON Web Tokens (RFC 7519).

Additionally, IIR's IDB API is based on the Open API Spec 3.0 for design, development and documentation. Documentation is available both in a static ReDoc version and using a Swagger UI interface. Swagger UI also provides an interactive environment to execute requests with different parameters, save the result, and provide the request string for utilization in other tools. This gives developers a way to quickly experiment with various endpoints, jumpstart their application development, and improve troubleshooting later on.

Direct link to IIR's IDB API public documentation site: https://api.industrialinfo.com/idb/

What IIR's IDB API IS and IS Not!

Unlike IIR's standard FTP-based fulfillment delivery, IIR's IDB API is NOT designed as a data delivery batch process, where large Comma Separated Value (CSV) files are scheduled to deliver on a set incremental basis (hourly, daily, weekly, monthly). Batch delivery is still best served by CSV files via FTP Delivery. Instead of IIR PUSHING the data to the client (FTP, Email), the IDB API is designed as a mechanism for clients to PULL the data upon request, making multiple requests as often and as frequently as needed.

The IDB API does not replace FTP Delivery as one of IIR's options, but provides an alternative means for clients with the need to develop applications that would pull the IIR Data within them.

The IDB API is generic and not specific to any given program. Our REST API will support hundreds of types of client implementations into various applications (CRM, Analytics Tools, Web Portals), but all will require development time from each client in order for proper implementation.

We recommend having an understanding of web APIs in general before attempting to utilize IIR's IDB API endpoints. IIR provides client technical support regarding the IDB API itself, but does not currently offer any development, applications, tools, or programs for using these endpoints.

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