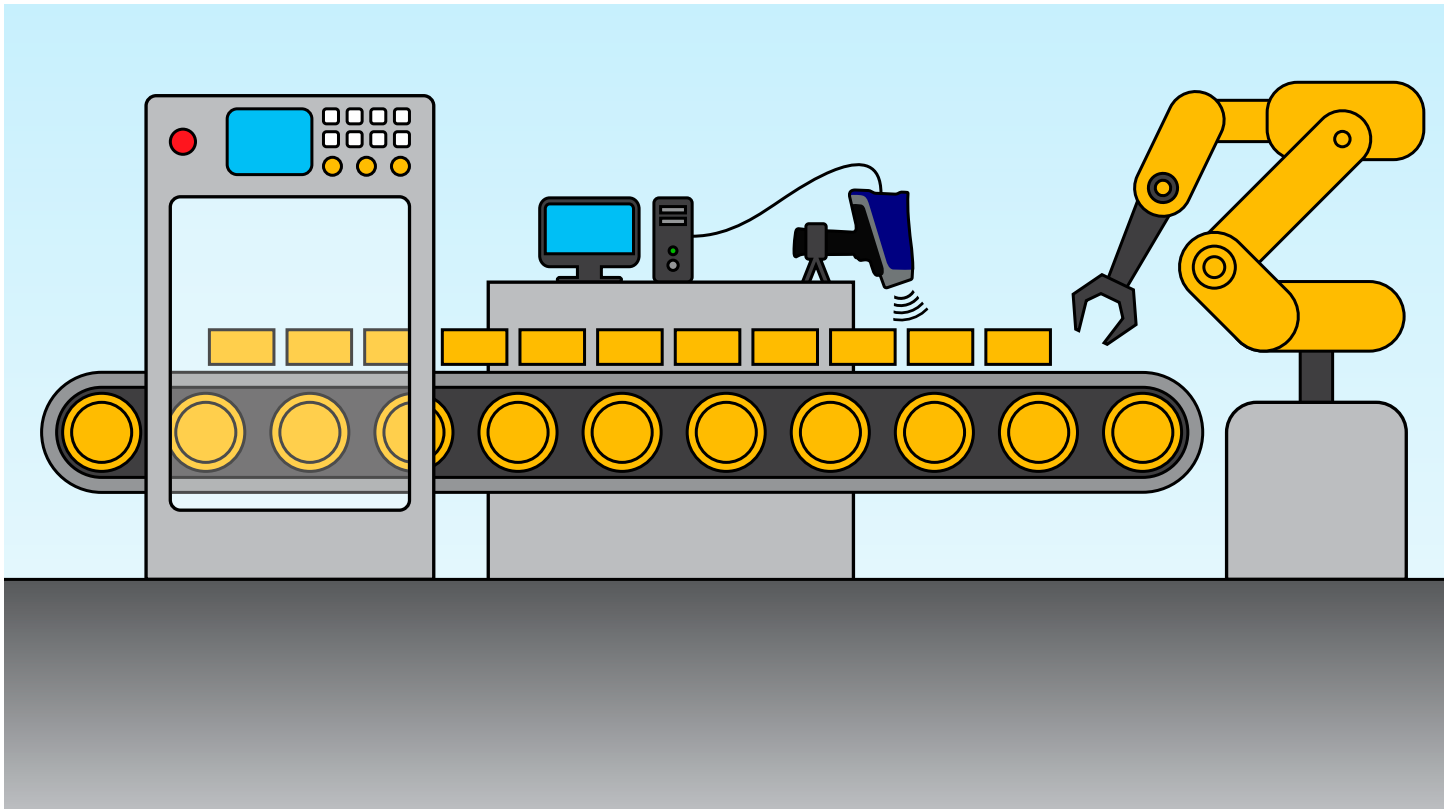


Vanta™ XRF API for Inline Process Control

Connected. Automated. Continuous.



Keep Pace with Industry 4.0

Use the API (application programming interface) for Vanta™ handheld XRF analyzers to integrate and automate XRF testing into industrial processes.

Vanta XRF API Features

- WebSocket based
- JSON commands
- Flexible—run it from your smartphone, PC, or the web
- Compatible with any WebSocket/JSON library
- Python™ and C++ sample code available

Capabilities Provided by the XRF API

- Connect to a Vanta XRF analyzer
- Start and stop tests
- Obtain results, such as Pass/Fail and Grade Match
- View status messages

Access Inline Inspection Data and Monitor Results in Real Time

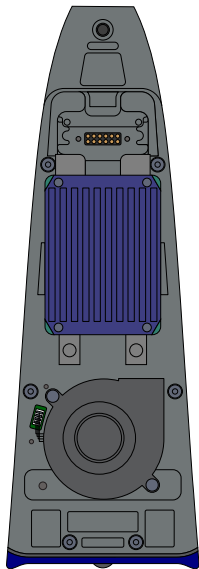
The Vanta™ analyzer and the XRF API provide real-time monitoring and data access to critical process controls. The XRF API is a network socket-based application programming interface that enables third-party developers to use their software to communicate and control a Vanta XRF analyzer. JSON messages configure, start, and view the results of XRF tests.



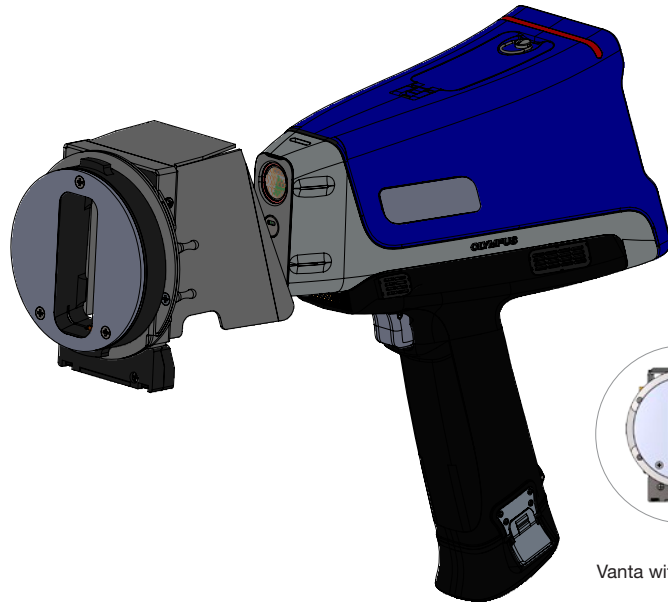
- Use any WebSocket/JSON serialization library for WebSocket client implementation.
- Serialize JSON commands and parse JSON responses from the analyzer.
- There is no need to include header files or link to libraries since it is socket-based.
- The sample code uses a Qt library, but Qt® is not a requirement.

Easy Hardware Integration

The client's software connects to the Vanta analyzer through its USB On-The-Go (OTG) port. The USB port and power connector are conveniently located on top of the analyzer, helping simplify mechanical integration. The analyzer's handle can be easily removed, and a bracket designed to fit the analyzer into the inline process can be added. As an alternative, the Vanta probe adaptor accessory can be incorporated into the configuration as the attachment point.



Vanta without handle



Vanta with Probe Adaptor

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