

IntelTrac AspenTech IP21 Historian Plug-In

Business strategies

Wonderware® IntelTrac® is used to manage the creation and scheduling of operator data collection rounds and procedures. This collected data then resides within the IntelTrac database and may be accessed using one of several IntelTrac desktop applications (Auditor Plus, Schedule Manager, Procedure Builder, Web Reports) or this data may be delivered to one of several external customer Systems of Record (SoR) to support other plant work processes.

Summary

The IntelTrac AspenTech IP21 Historian interface is designed to deliver field collected data from IntelTrac to the AspenTech Historian with configurable time stamping options to meet the business and process needs of the customer

Business Value

Being able to capture process data from non instrumented field assets and delivering that data to the historian to be used and evaluated in context with other automatically captured process data means that process engineers will have the information they need

The interface options within IntelTrac consist of direct integrations that “push” data to historian applications such as AspenTech IP21®, Honeywell PHD®, OSI PI®, OPC® HDA-based historians, Yokogawa® Exaquantum®, and the Wonderware Historian®. There is an interface to OPC® clients for the retrieval of data from those systems for display on the mobile computers. There are also bi-directional interfaces to systems that support other extended work processes. Bi-directional interfaces include those System Platform® as well as interfaces based on the IntelTrac SDK API layer including; SAP-PM®, IBM Maximo®, Primavera®, Microsoft® SharePoint® Lists and other custom integrations that are built for specific customers using the IntelTrac Software Development Kit (SDK).

One of the most popular capabilities of IntelTrac is the ability to relate specific questions on a data collection round to tagged points in other vendors' products and upon wireless or cradle transfer to the IntelTrac synchronization server deliver those data points to their respective target database.

This method has been used to manage the integration of manually collected data points for several other enterprise asset management systems and the flexibility of the IntelTrac Procedure Builder application will allow single data points to be propagated to multiple target locations.

Commercial

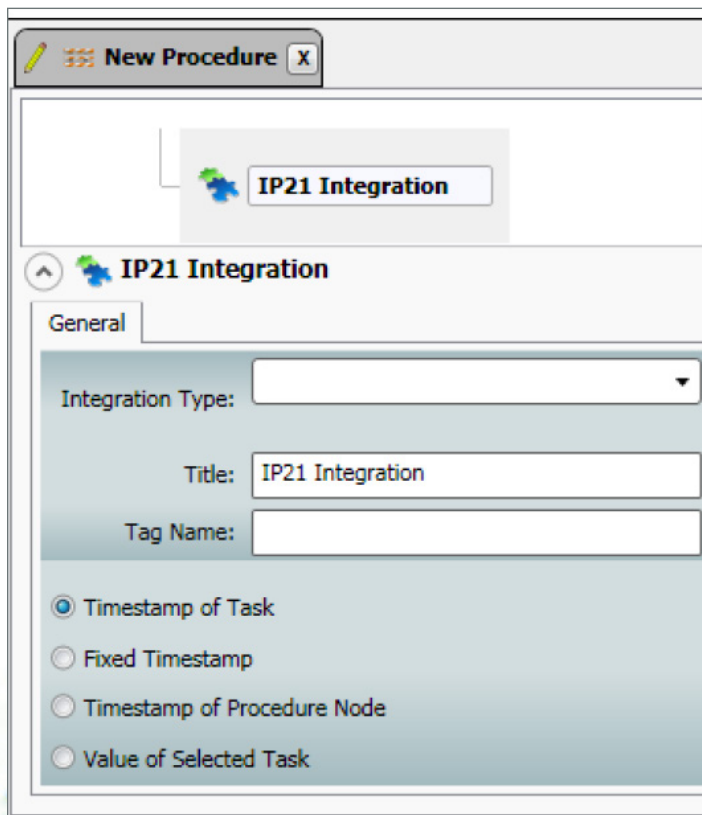
- + IntelTrac-AspenTech IP21 Process Historian Integration Manager Module (For importing manual tag data to process historian)
- + This interface is priced on a "per IntelTrac Instance" basis. An IntelTrac instance is defined as an individual IntelTrac Database.

IP21 Tag Integration Configuration

Configuration of the Aspen IP21 historian tags is done within the IntelTrac Procedure Builder application.

First, drag and drop the Aspen IP21 Integration icon onto a task.

The "IP21 Integration" item is selected, and the "IP21 Integration" section beneath opens to the "General" tab.



Second, configure the IP21 Integration Attributes on the General Tab as necessary.

- + **Integration Type:** Allows the selection of the IP21 server.
- + **Title:** This field aids in the identification of this Integration within Procedure Builder.
- + **Tag Name:** IP21 Tag Name

The bullets below these fields allow modification of the time-stamping options used for this instance of the integration. Select the option appropriate for your needs from the following.

- + **Timestamp of Task:** Uses the time at which input was last provided to the Task.
- + **Fixed Timestamp:** Uses a user-configured, fixed timestamp:
Note: "Fixed Timestamp" uses the time at which input was last provided to the Task to determine the "current" date.

Enter the desired time in the provided text field, and optionally a number of days to offset the timestamp into the past (where 0 is the current day, 1 is one day before the current day, et cetera).

- + **Timestamp of Procedure Node:** If applicable, the time input was last provided to the Task Group's status question or Task's question, or the last calculation evaluation of a Decision. Otherwise, the timestamp of the last time this Task Group was navigated away from.

Note: The purpose of this option is to allow for the collection of more than a single data point where the business requirement is to deliver those data points to the historian with the exact same time and date stamp.

- + **Value of Selected Task:** Uses the value of this task as the timestamp. This is only intended for Tasks that use an input type of "Datetime."Transfer of Data

Upon wireless or cradled transfer of the collected information, IntelTrac will store all collected information in the IntelTrac database. The integration service will then query the database on a timed schedule (sleep seconds) for any new entries that have associated integration points.

Collection of data in the field

Once the IntelTrac Procedure has been configured, saved and released for access by the mobile computer, the Procedure may be opened for data entry.

Field users are presented with the configured tasks for data entry. These tasks may be numeric, list, text, date, etc.

The field user is not required to do anything other than input their answer on these tasks that are configured as integrated to AspenTech IP21.

IP21 Update Service

The update service for AspenTech IP21 is managed as a service run on a timed basis and configurable by the customer for either automatic update or only upon supervisory approval within the IntelTrac Auditor Plus application. This configuration facilitates the business rules of the client and allows for supervisory edit of collected data points before they are updated in IP21.

Upon data transfer by the IntelTrac AspenTech IP21 Update service the user will be able to browse IP21 and see the data that was collected in the field with the date and time as configured within Procedure Builder.

Configuration

An IntelTrac Administrator must make the necessary changes to the Server Integration Configs within Procedure Builder for connectivity and data transfer options.

- + **Server Name:** The name of the server as it will appear in components of Procedure Builder. This option appears for all integrations.
- + **Send Approved Only:** If unchecked, values of Tasks using this integration are sent to the integration server on synchronization. If checked, these values are only sent after the Procedure Instance is marked "Approved" in Auditor Plus (see "Approving and Auditing Completed Procedures" on page 430 of the IntelTrac Management Center User's Guide).
- + **Default Group Name:** The Name of the IntelTrac Response Group into which the digital states will be inserted.



