AVEVA PI System™ Implementation Service

PIPER

PIPER Solutions is a company that helps transform operational data from sensors, actuators, equipment, DCS and control systems into information. Connecting people, processes and assets with knowledge that allows them to analyze and make timely decisions, optimizing processes and operating costs.

AVEVA

We also provide services related to the management, improvement, implementation, updating and solutions related to AVEVA PI System. This suite of AVEVA solutions enables digital transformation through high-quality and reliable operations data. Collect, enhance, and deliver real-time data at any location. Give more knowledge to engineers and operators. Speed up the work of analysts and data scientists. Support new business opportunities.

A service to install and configure a new Pi System:

The main purpose of the service is to install and configure a new AVEVA PI System™ infrastructure. PI Data Archive, PI Asset Framework, PI Analytics, Notifications, and PI Vision.

Personalized and Effective: We will implement your PI System according to the complexity of your projects and users so that it can be used to its maximum capacity.

Trained team: OSIsoft trained and certified engineers will guide you to get the most out of your PI System.

Experience: With more than 6 years of experience handling incidents, we even know what issues can cause you difficulties.

Global: This service is available to you anywhere in the world.

1 A correct implementation of the PI System ensures the proper functioning of the PI System collects, stores and analyzes data, giving us better data management and accuracy.

2 A well-installed PI System can help organizations achieve greater return on investment in their operations by improving data accuracy, visibility, and efficiency.

3 Resorting to tools that are based on the PI System is the best way to take advantage of it, so future solutions that the company requires using its PI System will need the essential elements of this system to be in optimal conditions after being implemented.

4 Let's remember that the PI System will be your unique system to manage your collected data, it will add context and meaning without the need to use programming code; This service will allow you to achieve total security in all domains, easy access to visualize your data and rapid integration with analytical tools, business applications and decision support systems.

Solutions

Configuring the PI Data Archive according to OSIsoft best practices, which are to configure and test your backup, also configure and test automatic archive creation, tuning parameters, and configure a set of monitoring tags to track the PI Data Archive server performance.

Configuration of PI AF and PI Notifications, according to Osisoft's good practices we will: Configure the backup of the AF SQL database (only when SQL Server Express is installed locally on the AF server machine) and configure and try PI Notifications.

Install, configure, and test standard PI interfaces or PI Connectors to validate communication with the data source, as well as buffering and configure PI Interface or PI Connector failover, if applicable.

Requirements

Before starting the deployment service:

We will verify that all the essential elements are correctly installed: The PI Server software suite, which includes PI Data Archive, standalone or highly available, PI Collective, Asset Framework (AF) (with notifications, asset analysis and Event Frames) and finally IP interfaces.

Hardware:

PIPER will provide hardware and software requirements for each of the AVEVA PI System infrastructure components as applicable. A PIPER specialist will confirm that the hardware requirements are met during the preparation stage. Therefore, the hardware of the acquisition node (API Node) and its operating system must be installed and operational before starting the service.

PI Server:

Before starting the deployment service we will verify that all the essential elements are correctly installed: The PI Server software package, which includes PI Data Archive, standalone or highly available, PI Collective, Asset Framework (AF) (with notifications, analysis of assets and event frames) and finally PI interfaces.

PIPER

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The Asset Framework server:

PIPER performs the installation of PI AF according to the architecture proposed and validated with the client, for which access to SQL Server (version 2008 or higher, in any of its editions) will be required. If there is no SQL server available, SQL Express will be installed.

TCP/IP communication:

TCP/IP communication must be enabled and operational between all AVEVA PI System nodes and the necessary ports must be open. Data file communicates through port 5450, Asset Framework communicates through port 5457 and 5459, PI Analytics service communicates through port 5463, PI notifications communicates through port 5468.

Technical staff:

Customer technical staff must be available to provide system access during AVEVA PI System implementation, security access, connection and control system. The customer must have a valid account on the OSIsoft support website with permissions to download the required software. This account is also required to generate the license file for PI Data Archive.

Estimated Service Time

Implementation dates will be mutually agreed upon after formal acceptance of the service. The implementation process, from application to completion, typically takes 3 weeks.

week 1 and 2

Software prerequisites and requests, hardware and operating system requests for PI Server nodes and interfaces, and confirmation of deployment dates with PIPER will be communicated.

week 3

The implementation is done. (from 4 to 6 days depending on the selected option).

Your Problems
are our Priority

Solutions
and Requirements