Software
Vijeo Historian reporting software
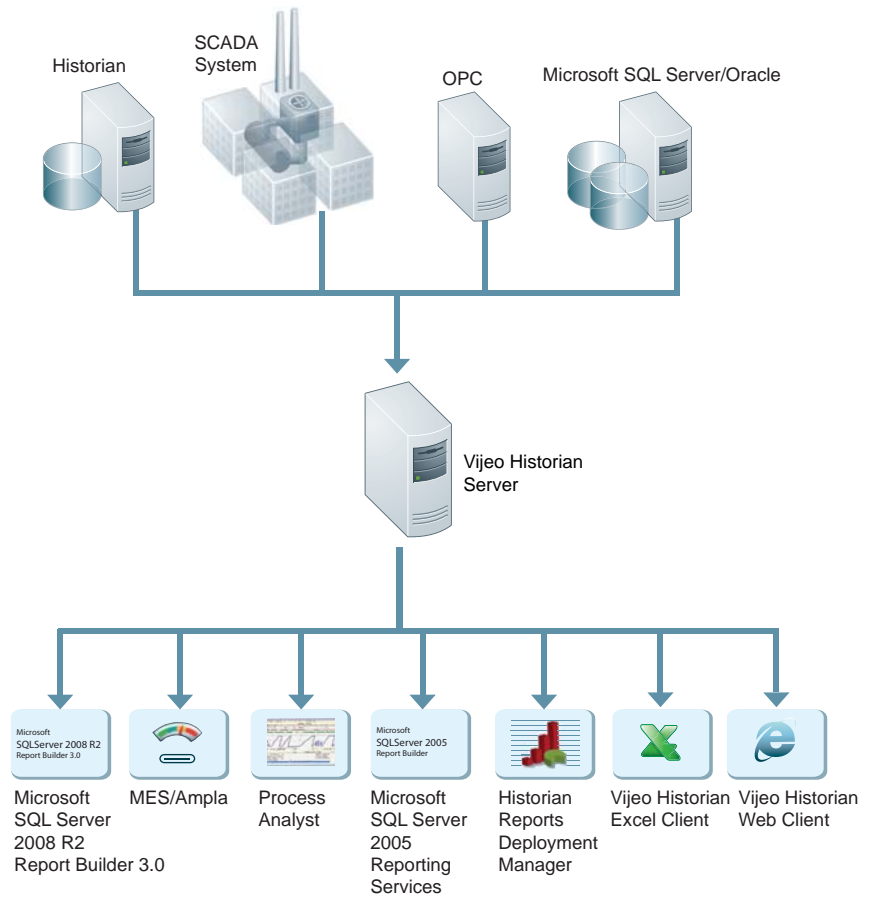
Presentation

Vijeo Historian

Vijeo Historian™ is the information management component of Schneider Electric's PlantStruxure™.
It comprises of the historian and portal functions of the solution, enabling you to store data accurately for long-term reporting while connecting your production and business systems through its active data transfers and simple, easy-to-use reporting functions.
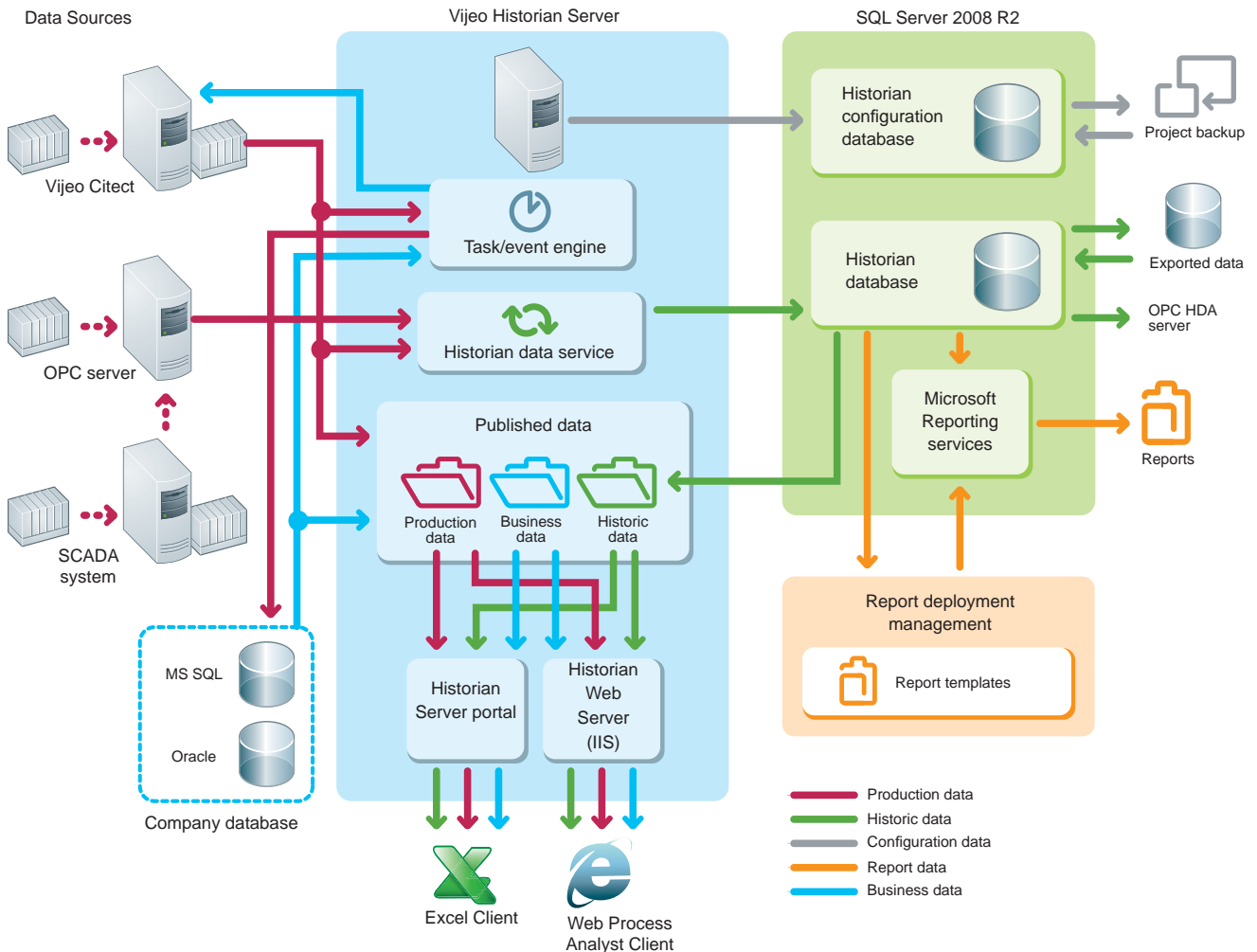
Vijeo Historian helps your plant and your IT personnel optimize their operational efficiency by providing a powerful enterprise-wide reporting tool that collects, stores and delivers meaningful reporting data from multiple disparate systems.

Comprising of historian and portal functionalities, Vijeo Historian enables you to store data accurately for long-term reporting whilst also giving you the option of displaying and accessing the information via the Vijeo Historian portal, Microsoft (TM) Excel, Microsoft Reporting Services or Microsoft Report Builder 3.0.

Visualization

Schneider Electric

Vijeo Historian architecture

Data Sources — Vijeo Historian Server — SQL Server 2008 R2

Diagram elements: Vijeo Citect, OPC server, SCADA system, Company database (MS SQL, Oracle), Task/event engine, Historian data service, Published data (Production data, Business data, Historic data), Historian Server portal, Historian Web Server (IIS), Historian configuration database, Historian database, Microsoft Reporting services, Report deployment management (Report templates), Project backup, Exported data, OPC HDA server, Reports, Excel Client, Web Process Analyst Client

Legend:
- Production data
- Historic data
- Configuration data
- Report data
- Business data

Functions

Applications

■ Business managers can access meaningful, concise production system information from the plant floor in a familiar format they use for their financial or other business reports, to help them make strategic decisions to optimize operational performance.
■ Plant managers can drill down into information or problem areas to improve production efficiency or reduce spurious alarms.
■ Corporate and plant personnel can quickly and easily create and access meaningful reports in a familiar format and create a single view of operation.

Data sources supported

Vijeo Historian supports the following data sources:
■ Vijeo Citect SCADA servers: CitectSCADA 7 or later
■ OPC Clients: OPC DA V2, OPC DA V3
■ Oracle V8 or later
■ Microsoft SQL Server 2005 or later

Vijeo Historian Web Client and Excel Client

Vijeo Historian also provides two client tools to make it easier to view and manage the information issued by the Historian Server:
■ Using the **Web Client** you can display plant information from your control systems and the historian via the Intranet/Internet simply by using a browser such as Internet Explorer.
■ The **Excel Client** can also access linked information from the SCADA system or the historian directly in Microsoft Excel. The Excel Client user can select from the same plant hierarchy as the Web Client and request the values of any item within the tree structure.

Security

Once logged on, users can only access the published folders, data and Favourites for which they have permission.
Passwords are encrypted and user privileges are validated for data requests.

Licence keys

The licences are programmed on a USB or parallel key, which is plugged into the PC running the Vijeo Historian software.

Vijeo Historian

Development Workshop

The Vijeo Historian Box includes:
■ Vijeo Historian DVDs including OPC/HDA Server and Reports Deployment Manager
■ A booklet
■ Hardware key.
The software can be downloaded from our website www.schneider-electric.com.
The Vijeo Historian Box is needed for delivery of the hardware key.
Additional keys will be shipped in the Vijeo Historian Box.
The key can be programmed for Vijeo Historian, Vijeo Citect or both.
We recommend using a separate key for Vijeo Citect and Vijeo Historian.

Description	Type of key included	Reference	Weight kg
Vijeo Historian Box with USB key	USB	**VJH 2099 22**	–
Vijeo Historian Box with parallel key	Parallel	**VJH 2099 12**	–
Vijeo Historian 10 Pack with USB key	USB	**VJH 2099 20** *(1)*	–
Additional USB key	USB	**VJH 2099 21** *(2)*	–
Additional parallel key	Parallel	**VJH 2099 11** *(2)*	–

Loan license

Description	Content	Reference	Weight kg
Vijeo Historian Loan licence	■ 1 x **VJH NS 2110 15** Vijeo Historian 15000 points and Data transfer licence ■ 5 x **VJH NS 2122 00** Portal Only Client Access Licence (CAL) ■ 5 x **VJH NS 2120 00** Historian Only Client Access Licence (CAL) ■ 5 x **VJH NS 2043 20** Microsoft SQL Database Connector (1 per database system)	**VJH 2095 03**	–

Vijeo Historian and Data Transfers

The Vijeo Historian and Data transfer licences are based on the amount of data being stored. The number of points is the maximum number of tags being logged and stored in the system. The number of alarms stored is unlimited, i.e. 150 tags stored - **VJH NS 2110 11**.

Description	Number of points	Reference	Weight kg
Vijeo Historian and Data transfer licences	150	**VJH NS 2110 11**	–
	500	**VJH NS 2110 12**	–
	1500	**VJH NS 2110 13**	–
	5000	**VJH NS 2110 14**	–
	15000	**VJH NS 2110 15**	–
	50000	**VJH NS 2110 16**	–

Vijeo Historian and Data Transfer upgrade

The references below are used for increasing the number of points on the Vijeo Historian and data transfer licences.

Description	Number of points	Reference	Weight kg
Vijeo Historian and Data transfer upgrade licences	150 to 500	**VJH NS 2110 11-12**	–
	500 to 1500	**VJH NS 2110 12-13**	–
	1500 to 5000	**VJH NS 2110 13-14**	–
	5000 to 15000	**VJH NS 2110 14-15**	–
	15000 to 50000	**VJH NS 2110 15-16**	–
	50000 to 100000	**VJH NS 2110 16-45**	–
	100000 to unlimited	**VJH NS 2110 45-99**	–

*(1) Contains 10 individual Vijeo Historian Boxes (10 x **VJH 2099 22**).*
*(2) Additional keys must include a Vijeo Historian Box (**VJH 2099 22** or **VJH 2099 12**).*

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Vijeo Historian

Client Acces Licenses (CALs)

Data from the Historian can be viewed in several ways:
- **Portal CALs**: Portal CALs are required to use the Web and Excel Clients provided with the Historian. These CALs can be ordered either per user/device or per server (CPU).
- **Historian CALs**: Historian CALS are NOT required if a site purchases Microsoft SQL Server 2008 R2 independently. If a site uses the MS SQL Server 2008 R2 shipped with Vijeo Historian, then Historian CALs are required under the following circumstances:
  - □ Using any of the standard reports with Historian Reports Deployment Manager
  - □ Accessing the Historian using Microsoft Reporting Services
  - □ Using the Web or Excel Clients
  - □ Accessing the Historian via Stored Procedures or SQL queries
  - □ Any direct or indirect (via other applications) to access Historian data

Client Access License per user/device		
Description	**Reference**	**Weight kg**
Historian and Portal - Client Access License (CAL)	**VJH NS 2124 00**	–
Portal Only - Client Access License (CAL)	**VJH NS 2122 00**	–
Historian Only - Client Access License (CAL)	**VJH NS 2120 00**	–
Client Access License per CPU		
Historian and Portal Server CAL per server CPU	**VJH NS 2125 00**	–
Portal Only Server CAL per server CPU	**VJH NS 2123 00**	–
Historian Server CAL per server CPU	**VJH NS 2121 00**	–

Control system connectors

Data can be collected from:
- Vijeo Citect: Unlimited connections included
- OPC DA: Reference **VJH NS 2043 23** ordered per connection.

Historian database can be connected to other databases for up/downloading.
- SQL Connector: One MS SQL Server connector included. Additional SQL connectors **VJH NS 2043 20** ordered separately.
- Oracle connector **VJH NS 2043 21**

Connectivity can be made to Ampla or any MES system using OPC/HDA Client. Vijeo Historian has an OPC/HDA server included free.

Description	Reference	Weight kg
Microsoft SQL Database connector (1 per database system)	**VJH NS 2043 20**	–
Oracle Database connector (1 per database system)	**VJH NS 2043 21**	–
OPC DA connector V2 and V3 (1 per database system)	**VJH NS 2043 23**	–

License transfer reprogramming

Every time a licence is transferred from an existing key to another key, the licence transfer fee is charged.
Examples of when this fee is applied include:
- Transfer of a licence from one key to another
- Removal of a licence from an existing key (when not transferring to another key)
- Re-issue of licence for a replacement key.

Removal or downgrade (licence type or point count) of licences on a key will require a key swap where a new key is issued and the existing key must be returned. Removal or downgrade of a licence does not provide any refund or credit.
When moving a licence to an existing key that already contains a licence (or licences), the licence being moved must be the same point count as the existing licence.
Note: When placing an order, please indicate the key numbers and details in the special instructions.
Note: This provides only a new authorization code. If a new key is required then you also need to purchase a new hardware key (**VJC 1099 ●●**).

Description	Reference	Weight kg
License transfer fee	**VJC 1094 01**	–