Chapter 12 KingView for Internet Application

In this chapter, you will
- Understand the web functions of KingView
- Understand how to configure the web properties in the development system of KingView

Section 1 Web Function Introduction

Introduction

KingView provides a WEB edition, which supports Internet/Intranet. KingView’s WEB function adopts a B/S structure, so that clients can use KingView to remotely monitor industrial scenes through Internet/Intranet from any location and at any time. Remote clients need to install Microsoft Internet Explorer 5.0 or above or Netscape 3.5 or above and a JRE plug-in (this plug-in will automatically be download, installed and saved in the system when KingView pictures are browsed for the first time), as figure 12-1 shows:
Technology Features of Web Edition

- Java2 graphic-based technology supports multiple systems and has powerful functions.
- Supports multi-picture integrated systems, which have the same display effects as TouchView pictures.
- Supports animated displays. The data of client can maintain synchronized with webserver.
- A Built-in Web server system in TouchView handles remote IE access and thus extra Web servers are not needed.
- It is based on a general TCP/IP, Http protocol and is therefore able to connect to a wide area network.
- The B/S structure can monitor and control remote KingView through a common browser.
- Remote client systems do not affect that of the master controller and clients may also remotely monitor the master controller.

Functions and Features of Web Edition

Grouping is adopted for both publishing and browsing the Web in KingView 6.5. Pictures can be opened in the same group, which loads and displays real time pictures. It has a new authority level setting for remotely monitoring web connection and publication, picture display arithmetic via internet browser. The Web edition increases the IE menu, status bar and other shortcut functions for making the remote KingView browser and the local TouchView operate in the same way. The new WEB functions expand upon the following existing functions:

**Colour Support**

Supports the transition colour fill and mode fill functions as well as the true colour and various line types such as bold and dashed lines. The system also ensures real time visual synchronization between KingView and Web system.

**Report function**

Increases the report control function of the Web edition and supports real time historical reports, the built-in report function, and tags connection, calculating and evaluating values in report cells, report printing and downloading the report.

**Scripts Extension:**

Extends the calculating and evaluating functions, local variables, structure variables, increase variables fields, IE picture printing, report printing, report statistics and the open and close functions of the picture

**Big picture Support**

Support a big picture function meaning it can display pictures of any size in IE.

**Remote Variables Support**

You can refer to remote variables and display them locally. At the same time, you can see
the remote variables referred by the WEB site in IE.

**Publish Alarm Window**

Enhanced publishing functions for the alarm window. KingView supports publishing real time and historical alarm windows, which can be displayed as real time alarms in the runtime system. Support the filtering and display of alarms and event messages in the browser according to the conditions of the alarm priority, alarm group, alarm type, alarm information source and the alarm server.

**Security Management**

Access levels and security zones set in the IE browser work in a similar way but in addition to users with different access level which allow them to browse IE can fulfil different operations in IE.

**Language Editions**

It has the capability to adapt many different language editions.

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**Section 2 Web Publishing Configuration**

You must select the “connect web” mode in the web configuration dialog box from the project browser window to use the web function, your computer should then bind the TCP/IP protocol. For more information about Web configuration refer to KingView manual.

**Network Port Configuration**

You need to know the port number when you browse IE you therefore need to define the port number before doing any web publishing, the definition process is as follows:

1. Double-click “web” in the “project catalog display area” on the left side of TouchExplorer the following port setting dialogue box will popup as figure 12-2 shows:

![Figure 12-2 Port setting dialog box](image)

The port number is the number of port connections between IE and TouchView, the default number is 80. If a defined port number collides with another application you are able to modify it.
Graph publishing

KingView 6.5 can publish graph from different groups. Each group can be configured with independent security access and browsed by different client groups. The graph publishing process is:

1. Select “web” from the “project catalogue display area” on the left side of the TouchExplorer window, double-click the “new” icon on the right of the project catalogue display area, the configuration dialogue box for graph publishing is as figure 12-3 shows:

![Figure 12-3 Configuration dialog box of web publish group](image)

“Group name” is defined by the user and is the Web identification for the publishing group. It is made up of a combination of English letters and digits, and the group name can’t be repeated in one project.

Click ![ ] or ![ ] in the dialog box to add or delete a published graph.

You can browse published graphs on KingView without needing a username and password to open IE by selecting “anonymous login”. Selecting “identity validation” requires you to enter a username and password. You can only browse the graph advanced user are able to browse the graph and modify objects of data operation in the graph.

Section 3 Browse graph in IE

We can browse graphs in IE using the above operations. The browse process is as follows:

1. Start-up TouchView.
2. Open IE, input the address in the address column of the browser, the address format is: http:// machine name of publishing site (or IP): define port number (such as http://192.168.1.51:80), the dialogue box will pop-up as figure 12-4 shows:
To use KingView Web functions you need to install a JRE plug-in. If you do not install a JRE Plug-in, the system will automatically download a JRE interface when you browse the graph for the first time, if you install the plug-in successfully, you can browse the web. The plug-in is installed only once and then kept in a system. 3. Select the group name “group” and the dialogue box for security setting warnings appears as figure 12-5 shows:

Click the “yes” button, the system will install the JRE plug-in automatically the progress of the installation will be displayed.3. You can browse the published graph the JRE plug-in has been installed as figure 12-6 shows:

Figure 12-4 Graph browse interface

Figure 12-5 Dialog box for security setting warning

Figure 12-6 Browse graph in browser
Section 4 Functions of KingView 6.5 Web Support and doesn’t support

Supported Functions

- All basic graphics in KingView 6.52
- Infinite Colour
- Transition colour fill
- Diversiform line types such as bold and dashed lines
- All general library symbols
- Web grouped publishing and display customs
- Multi-picture integrated display in the IE browser
- Dynamically loaded and real time display pictures
- Command functions such as open and close a picture
- Report displays and calculations
- Historical trend, real-time trend and alarm windows
- Online scripts to achieve remote control
- Online picture printing
- Print a report
- Bitmap
- Multi-level menu

Supported functions

**String Functions:**
- Dtext(), StrArcII(), StrChar(), StrFromInt(), StrFromReal(), StrFromTime(), StrInStr(), StrLeft(), StrLen(), StrLower(), StrMid(), StrReplace(), StrRight(), StrSpace(), StrToInt(), StrToReal(), StrTrim(), StrType(), StrUpper(), Text()

**Mathematic Functions:**
- Abs(), ArcCos(), ArcSin(), ArcTan(), Cos(), Exp(), Int(), LogE(), LogN(), Max(), Min(), PI(), Pow(), Sgn(), Sin(), Sqrt(), Trunc(), Bit(), BitSet(), Average(), Sum()

**Historical Trend Functions:**
- HTGetPenName(), HTGetPenRealValue(), HTGetTimeAtScooter(), HTGetValue(), HTGetValueAtScooter(), HTGetValueAtZone(), HTScrollLeft(), HTScrollRight(), HTSetLeftScooterTime(), HTUpdateToCurrentTime(), HTZoomIn(), HTZoomOut(), SetTrendPara()

**Report Functions:**
System Functions:
HTConvertTime(), ShowPicture(), ClosePicture(), HidePicture(), LogOn(), Ack(), PrintWindow()

Functions KingView Not Support

- OCX control and standard control
- User-defined functions and custom variables
- Recipe functions
- SQL database functions
- Control functions
- Report function ReportSetHistData2()
- Application scripts, key scripts, event scripts, data change scripts, user-defined function scripts and picture scripts
- All button types except standard buttons, all button style except the standard style. It does not support a bitmap button.

Review

1. Understand the definition of web publishing.
2. Be able to publish a page layout (such as an animated connection graph).
3. Be able to login and operate remote control on other computers connected via the internet.