



WebSecurity Online Demo

Described Version:	WebSecurity 2.0
Also Applicable For:	WebSecurity 2.0 and up
Target Platforms:	Windows Vista 32/64, XP, 2000, Linux, Mac OS
MARX Hardware:	CRYPTO-BOX® USB

Secure Client Authentication!

Web Security from MARX® provides a secure way for client authentication via Internet/Intranet and allows secure transactions between remote server and the client (end user) who is in possession of an USB-Token (CrypToken® or CRYPTO-BOX® USB from MARX). This means: only the client who has valid CrypToken attached to his computer is allowed to login. Furthermore, the contents of client's CrypToken can be used by Web applications (JSP or ASP-based) for making decision on providing various services (give access) to the client. The CrypToken memory can be also updated on the fly by the server side.

- **Secure authentication of clients: only authorized clients with a valid CrypToken can access the server or a special area of the server! Or do you really know how many persons share one password to login into your web portal?**
- **Secure transfer of information to client's CrypToken: it allows you to create and update client profiles remotely.**
- **Remote update of data (counters, expirations, license information etc.), stored in the CrypToken memory on client side.**



Web Security

1. Introduction

Web Security from MARX® provides a secure way for **client authentication** via Internet/Intranet and allows **secure transactions** between remote server and the client (end user) who is in possession of an USB-Token (CrypToken® or CRYPTO-BOX® USB from MARX). This means: only the client who has valid CrypToken attached to his computer is allowed to login. Furthermore, the contents of client's CrypToken can be used by Web applications (JSP or ASP-based) for making decision on providing various services (give access) to the client. The CrypToken memory can be also updated on the fly by the server side.

This can be used for a wide range of applications:

- Secure authentication of clients: only authorized client with valid CrypToken can access the server or a special area of the server! Or do you really know how many persons share one password to login into your web portal?
- Secure transfer of information to client's CrypToken: it allows you to create and update client profiles remotely.
- Remote update of data (counters, expirations, license information etc.), stored in the CrypToken memory on client side.

Web Security version 2.0 is based on Smarx OS® platform, so it's compatible with other Smarx OS programming interfaces and applications, solutions. Smarx OS base functionality is utilized by Web Security for:

- Establishing secure connection;
- Client authentication and transactions encryption;
- Reliable transaction mechanism (based on Smarx OS Data Objects API).

Web Security supports most popular environments:

Client:

- MS Internet Explorer, Mozilla, Firefox for Win32 platform.
- Mozilla for Linux platform.

Server:

- JSP environment for Win/UNIX platform
- ASP.NET environment for .NET platform

2. Web Security online demo

CrypToken Security Kit includes Web Security client and online demo, showing its functionality. The online demo is the easiest way to evaluate Web Security. This section contains a brief guide, which will help you to start evaluation. A complete documentation which also covers the server side is included in the full version of WebSecurity.

2.1. Installing Web Security Client

Open Web Security page of the CT Control Center and install **Web Security Client**.

Now you should check if your browser is configured properly and if components/plugin could be initialized on the Web pages, generated by server application.

For correct work Cookies and JavaScript should be enabled in your browser settings. Most probably they are enabled, but let's check it.

Web Security: online demo

a) For Microsoft Internet Explorer go to Tools -> Internet Options -> Security tab:

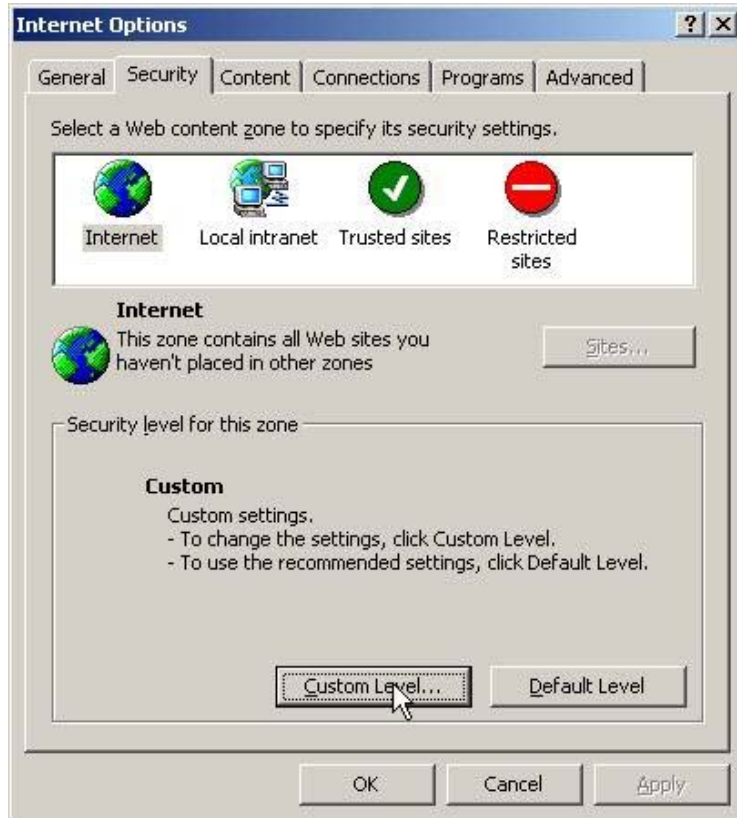


Fig 1. Checking browser settings for IE: step1

Select Custom Level and correct Security Settings:

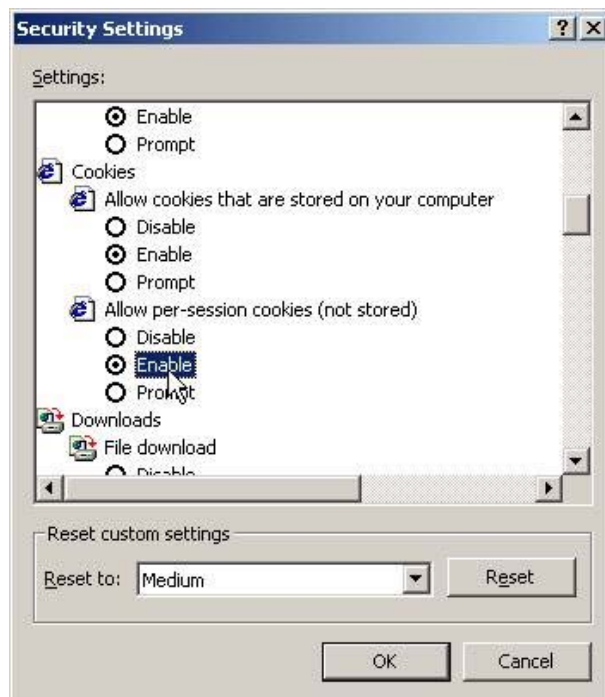


Fig 2. IE: correcting security settings - enable cookies

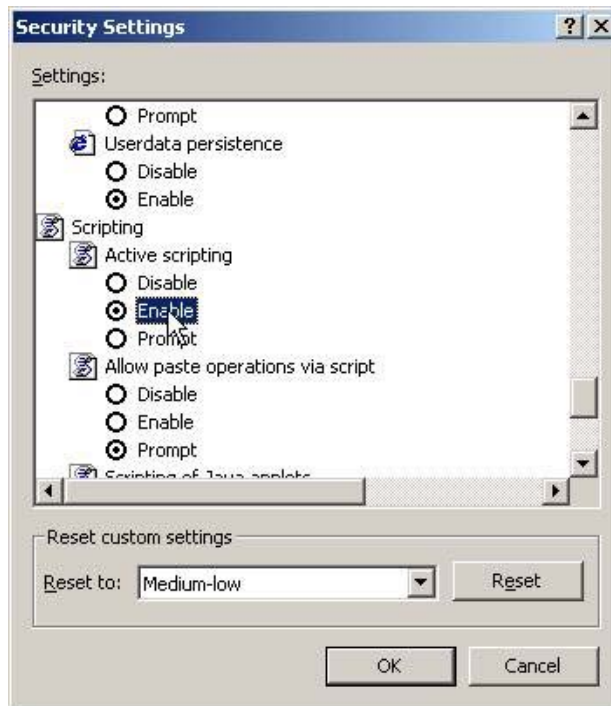


Fig 3.IE correcting security settings - enable active scripting

b) For Mozilla go to Edit -> Preferences and correct Cookies and JavaScript settings:

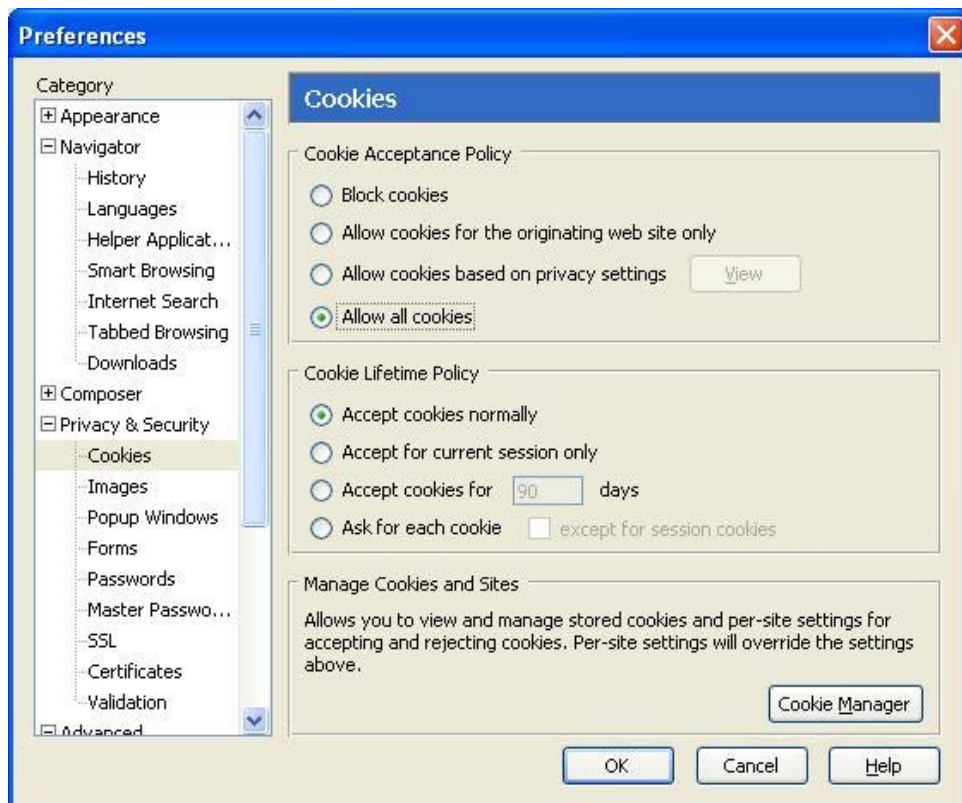


Fig 4.Mozilla: correcting security settings - enable active scripting

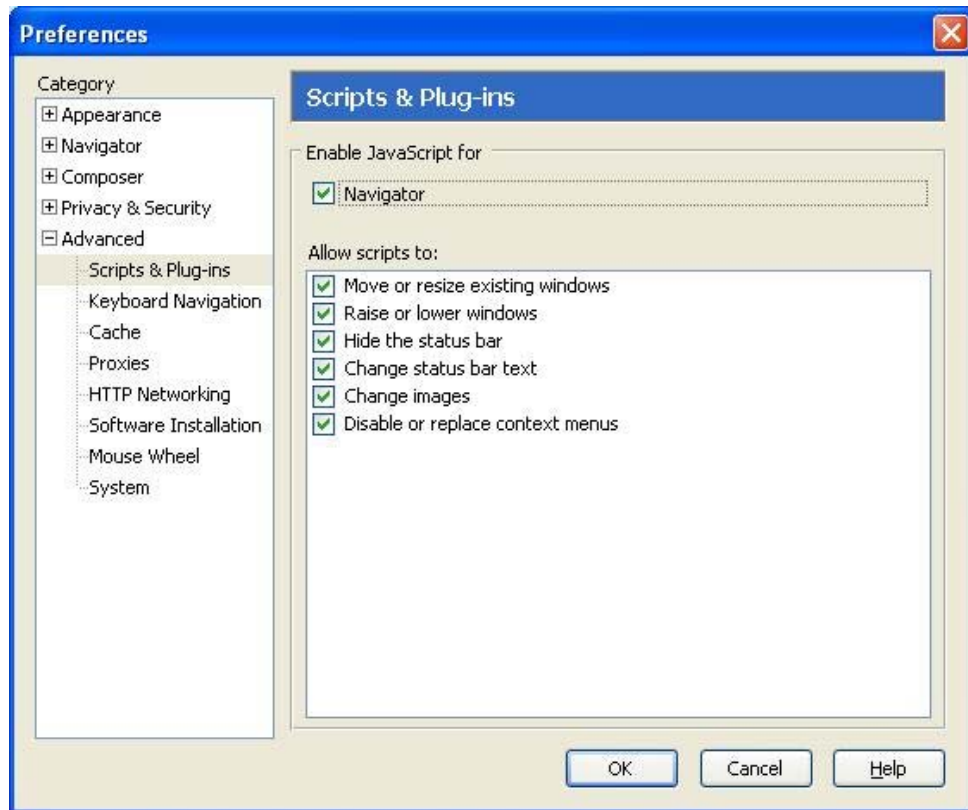


Fig 5. Mozilla: correcting security settings - enable active scripting

Now you can go to Web Security Net Setup page to check your browser settings online:

<http://www.marx.com:8080/websec/netsetup/netsetup.jsp>

Follow instructions to check your configuration. If client component is installed and browser is configured correctly you will get the following results (depending on your OS, browser type and component/plug-in version):

a) Microsoft Internet Explorer ActiveX:

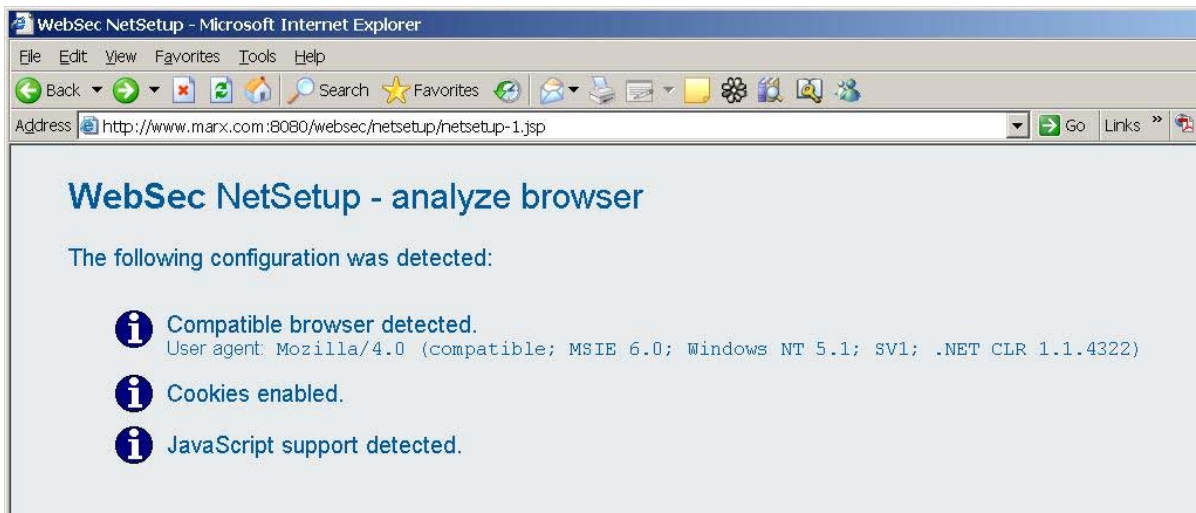


Fig 6. Diagnostics results for Internet Explorer ActiveX object: screen1

Web Security: online demo

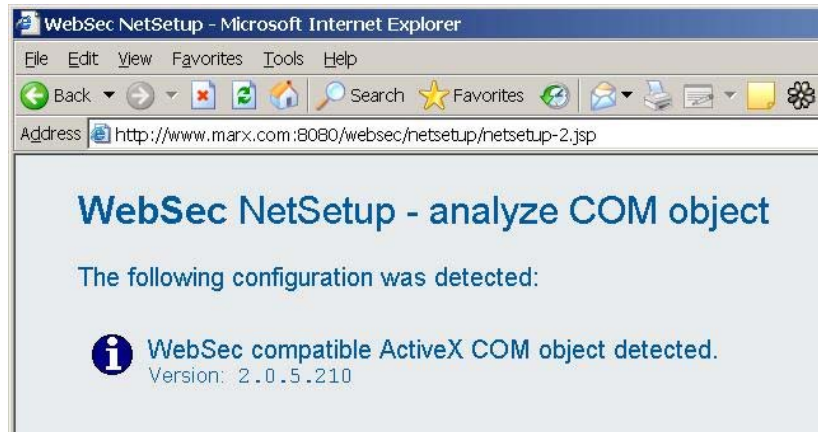


Fig 7. Diagnostics results for Internet Explorer ActiveX object: screen2

b) Mozilla / plug-in



Fig 8. Diagnostics results for Mozilla plug-in: screen1



Fig 9. Diagnostics results for Mozilla plug-in: screen2

2.2. Configuring CrypToken® for online demo evaluation

Demo configuration tool (**democfg.exe**) is Win32 application, included to CT Security Kit. This tool is used to program demo user profiles into CrypToken® demo partition (#999). RSA key pairs, used for client verification (demo values) are already programmed to every demo CrypToken®, distributed by MARX.

You need to use this tool to configure your CrypToken before evaluating the online demo. Launch democfg.exe from the Web Security page of the Control Center. Alternatively, you can download the Configuration Utility and the WebSecurity Client for your browser from the MARX homepage: <http://www.marx.com:8080/websec/download.html>

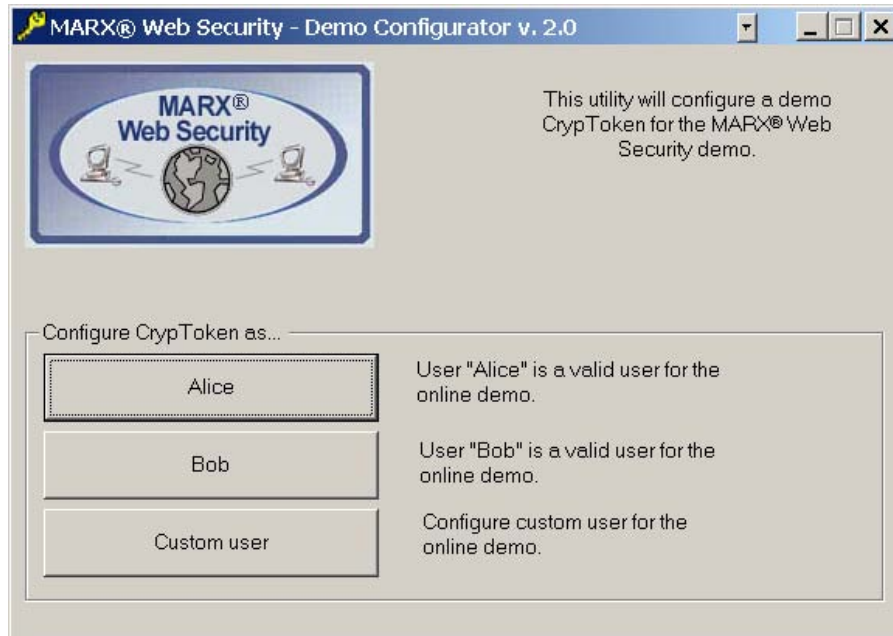


Fig 10. Demo Configuration Utility: main screen

You can choose predefined user profiles of **“Alice”** or **“Bob”** or submit **“Custom user”** information:

Fig 11. Customizing user's profile

NOTE: The first found demo CrypToken will be programmed – so, please, check if the only one CrypToken is attached to your PC, to be sure that you will configure the right one.

2.3. Evaluating the online demo

Now you are ready to test MARX® Web Security Online demo:
<http://www.marx.com:8080/websec/login.jsp>

Step 1: Client Login

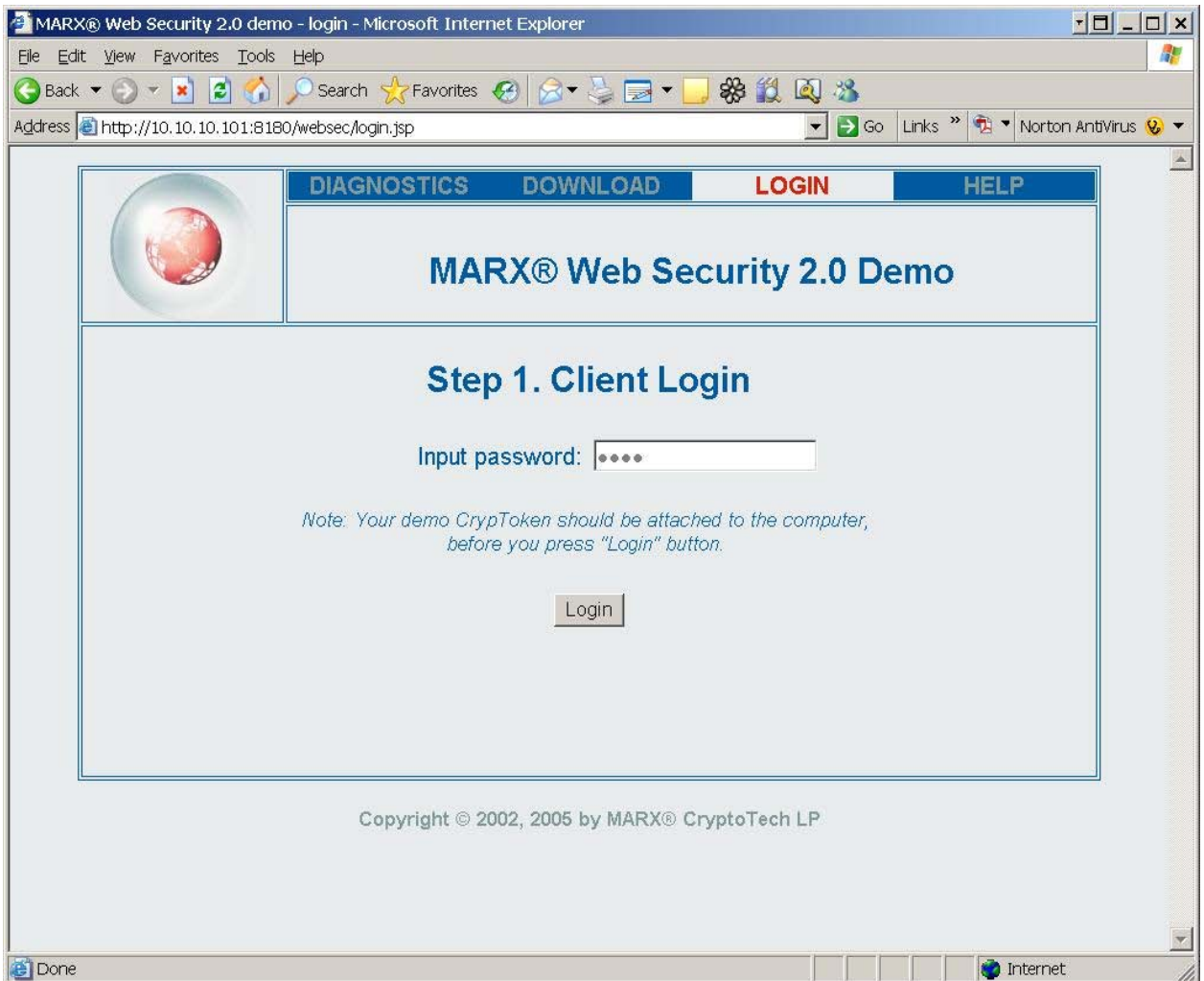


Fig 12. Web Security online demo: client login

Enter CryptToken's password ("demo" by default). Because Smarx OS Single Sign-On environment is installed on your computer, user password (PIN) will be requested with standard SSO dialog, and input field on web page will be disabled.



Fig 13. Web Security online demo: entering password (SSO)

In case of successful client verification, you'll come to the next page.

Step 2: Client Verification

If demo CrypToken was successfully verified, information about its serial number will be displayed.



Fig 14. Web Security online demo: verification results

Now press "Client details" button to see client specific information, programmed into CrypToken with **democfg** tool. This information is obtained with a memory block read transaction.

Step 3: Client Info



Fig 15. Web Security online demo: Client Info

All details on server side programming can be found in the full version of this product which can be ordered from MARX (see next page for MARX distributors).

3. Distributors

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