

Deltek Touch for Maconomy

Touch 2.1 Technical Installation Guide

March 2017

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Overview

The Deltek Touch for Maconomy application is the best way for on-the-go Deltek Maconomy users to not only submit and track time, expenses, and mileage, but also approve time, expenses, vendor invoices, purchase orders, and even draft client invoices. It gives you access to several dialog boxes related to Time Registration and Expenses (both Expense and Mileage) in Maconomy. Even when you are away from the office, immediate mobile device access means Deltek Touch keeps you informed and in control.



Not all functionality is available in all Maconomy versions and in MScript and REST Web services. For more information, see the *Deltek Touch for Maconomy Mscript and REST Web Services Comparison Guide*.

This document provides instructions for the installation and configuration of the Deltek Touch for Maconomy.



The official name of the application is *Deltek Touch for Maconomy*. This document only uses it at first mention. The succeeding instances of the application name display *Deltek Touch*.

In addition, the application name in *Apple App Store*, *Google Play*, and *Windows Store* displays *Deltek Touch for Maconomy*.

Supported Mobile Operating Systems

Deltek Touch for Maconomy supports mobile devices that run on the following operating systems:

- Apple iOS 9.0 and higher
- Android 4.4 and higher
- Windows Phone 8.1 and higher



Starting this release, we no longer support Android 4.1, 4.2, and 4.3. In addition, Deltek Touch 2.2 will still support Windows Phone. Starting September 1, 2017, however, the support for Windows Phone will end.

Downloading Deltek Products using Deltek Software Manager

You can use Deltek Software Manager (DSM) to download complete Deltek products, hot fixes, and sub-releases. You can access DSM directly or through the Deltek Customer Care Connect site.

When you access DSM directly, you will be prompted to log on before you can access the application. If you access DSM from within the Deltek Customer Care site, you do not have to log on since you are already logged into the Customer Care site.

Accessing DSM Directly

To access Deltek Software Manager directly, complete the following steps:

1. Launch Deltek Software Manager by taking one of the following actions:
 - Click [here](#).
 - On your desktop, click **Start » All Programs » Deltek Software Manager**.
2. In the Deltek Software Manager logon dialog box, enter your Deltek Customer Care **User ID** and **Password**, and click **Logon**.
3. To select the folder where you want to download Deltek products, click **Settings** above the right pane of Deltek Software Manager.



When you log on for the first time, Deltek Software Manager asks you to select a default folder where Deltek products are to be downloaded.

4. Use the Settings dialog box to specify the folder where you want to download Deltek products, and click **OK**.



You can change this folder anytime in the Settings dialog box.

5. In the left pane of Deltek Software Manager, expand the Deltek product that you want to download, if it is not already expanded.



If you clicked the link in step 1 to access DSM, the application automatically selects Deltek Touch for Maconomy for you.

6. Select the product type that you want to download. Your options are **Complete**, **HotFix**, and **Sub-Release**.
7. In the table, select the check box that corresponds to the Deltek product that you want to download. The right pane displays a message stating that the product has been added to the download queue.



To view the items in the download queue, click **View Download Queue** at the bottom of the left pane.

8. Click **Download** at the bottom of the left pane. Deltek Software Manager downloads the product to the folder that you selected.

Accessing DSM from within the Customer Care Connect Site

To access Deltek Software Manager from within the Customer Care Connect site, complete the following steps:

1. In your Web browser, go to <http://support.deltek.com>.
2. Enter your Customer Care Connect **Username** and **Password**, and click **Log In**.
3. When the Customer Care Connect site displays, click the Product Downloads tab.
You are automatically logged into Deltek Software Manager.
4. To select the folder where you want to download Deltek products, click **Settings** above the right pane of Deltek Software Manager.



When you log on for the first time, Deltek Software Manager asks you to select a default folder where Deltek products are to be downloaded.

5. Use the Settings dialog box to specify the folder where you want to download Deltek products, and click **OK**.



You can change this folder anytime in the Settings dialog box.

6. In the left pane of Deltek Software Manager, expand the Deltek product that you want to download, if it is not already expanded.
7. Select the product type that you want to download. Your options are **Complete**, **HotFix**, and **Sub-Release**.
8. In the table, select the check box that corresponds to the Deltek product that you want to download. The right pane displays a message stating that the product has been added to the download queue.



To view the items in the download queue, click **View Download Queue** at the bottom of the left pane.

9. Click **Download** at the bottom of the left pane. Deltek Software Manager downloads the product to the folder that you selected.

DSM Documentation and Troubleshooting

- To view the online help for Deltek Software Manager, click [here](#).
- To view a tutorial on how to use Deltek Software Manager, click [here](#).
- To view more information on troubleshooting Deltek Software Manager, click [here](#).



The above troubleshooting link will only work if you are logged into Deltek Customer Care Connect.

Prerequisites


Before you begin the installation of Deltek Touch for Maconomy, it is important to understand the information in this section.

Technical Considerations

The following requirements must be met to run Deltek Touch for Maconomy:

- Deltek Touch for Maconomy can be run only on Maconomy X1 Service Pack 25 (or higher), Maconomy 2.0 Service Pack 3 (or higher), Maconomy 2.1.1 (or higher), Maconomy 2.2 (or higher), Maconomy 2.3 (or higher), and 2.4 LA.
- Deltek Touch for Maconomy cannot be installed on Sun (Solaris) or AIX server platforms. As a workaround, it is possible to install Touch Time on Windows or RHEL and then attach it to a Maconomy server running on Sun or AIX.
- Deltek Touch for Maconomy runs on IIS or Apache for Windows and Apache for Red Hat Enterprise Linux (RHEL).

Environment	Prerequisites
Windows + IIS	<ul style="list-style-type: none"> ▪ Deltek Touch requires IIS be installed on a server that runs Windows Server 2008, Windows Server 2008 R2, Windows Server 2012 or Windows Server 2012 R2. ▪ Deltek Touch requires PHP 5.6.30 or higher to be installed on IIS. The Touch Server installer installs the required version of PHP.
Windows + Apache	<ul style="list-style-type: none"> ▪ You must install Apache on a server that runs Windows Server 2012 or Windows Server 2012 R2. ▪ Deltek Touch requires PHP 5.6.30 or higher to be installed on IIS. The Touch server installer installs the required version of PHP. ▪ For Maconomy 2.1 and later using Apache on Windows, you must use Apache 2.4 for both Deltek Touch and Maconomy. ▪ For Maconomy X1 and 2.0 using Apache on Windows, you must have Deltek Touch installed on Apache 2.4 and Maconomy on Apache 2.2.
Linux + Apache	<ul style="list-style-type: none"> ▪ Deltek Touch supports RHEL 5.x (starting with 5.6) and Red Hat Enterprise Linux 6.x ▪ Deltek Touch only supports Apache 2.2 and Apache 2.4 on Linux. <ul style="list-style-type: none"> ▪ On RHEL 5.x, Apache 2.2 is required. ▪ On RHEL 6.x, Apache 2.4 is required.

Environment	Prerequisites
	 <p>All Maconomy versions are certified on Apache 2.2. However, none of the Maconomy versions are currently certified on Apache 2.4 on Linux. Therefore, on RHEL 6.x, Deltek recommends using different Apache installations for the Touch Server (Apache 2.4) and Maconomy (Apache 2.2).</p> <ul style="list-style-type: none"> Deltek Touch requires PHP to be installed: <ul style="list-style-type: none"> On RHEL 5.x, Deltek Touch requires PHP 5.3.3 or later. On RHEL 6.x, Deltek Touch requires PHP 5.6.25 or later. Our tests were conducted on the following setups: <ul style="list-style-type: none"> RHEL 5.6 + PHP 5.3.3 + Apache 2.2.3 RHEL 6.0 + PHP 5.6.25 + Apache 2.4 RHEL 6.5 + PHP 5.6.25 + Apache 2.4

- Deltek Touch is based on Maconomy dialogs. Therefore, Maconomy must be set up correctly with regards to functionality and dialog access. Please see section below for further details.
- Deltek Touch for Maconomy setup requires the following add-ons:
 - Maconomy Portal: Daily Time Sheets (110)
 - Time on time (122)
- Deltek Touch for Maconomy supports Single Sign-On (login using domain credentials) using Kerberos on both Apache and IIS Web server.
- Deltek Touch for Maconomy also supports SSO with the Windows Azure Active Directory (WAAD).
- Session cookies must be disabled when using Deltek Touch for Maconomy (in **MaconomyTouch.I**).



In Maconomy 2.0 and later, by default, session cookies are disabled in MaconomyTouch.I.

- When using Secure Sockets Layer (SSL), you must have a certificate issued by a trusted certificate authority. You must not use self-signed certificates. Wild card certificates work if they come from a trusted certificate authority but are not considered a best practice.
- Deltek Touch for Maconomy supports applications from *Apple App Store*, *Google Play*, and *Windows Store*. If you are using an unsupported version of Maconomy (compatibility mode), you may be able to use the native browser of your device to enter your organization's Deltek Touch for Maconomy URL.



The Deltek Touch for Maconomy URL has the format `https://<server>/deltektouch/maconomy/time`, where `<server>` refers to the host name of your Touch Server.



For security reasons and due to the SSL restriction that has been enforced by Apple lately, Deltek Touch will no longer support HTTP links.

- In this release, Deltek Touch no longer supports HTTP for the online help URL (see `HELPDOCURL` in `configuration.ini`).
- In this release, all URLs that Deltek Touch uses must be HTTPS. This includes the Touch Server URL, which you enter when you use the application for the first time. It also includes the REST proxy URL.

Deltek recommends that you prepare for this transition beforehand. Otherwise, users will not be able to use Deltek Touch application.

Compatibility Mode Definitions

Compatibility Mode	Description
Fully Compatible	You must be on Touch Android application, iOS application, Windows Phone application, Web application, Touch Server, and AP. All features and functions in the application are available to you.
Partially Compatible	At least one of the components (Touch Server and/or API) is an older version. Some features of the application are hidden and not available to you.
Browser Compatible	<p><i>This only applies to system administrators.</i> At least one of the components (Touch Server and/or API) is an older version. The current application does not work with the Touch Server or API, but you can still use the application through the mobile browser.</p> <p>If you are using the browser version of Deltek Touch, not all functionality will be available and you should expect considerably slower performance of loading of the application when accessing from browser.</p>
Incompatible	<p>There are some combinations of API and Touch Server that make it impossible to even use the browser version to run the application.</p> <p>In case of incompatibility, Deltek Touch displays two messages. The first one informs you about the incompatibility that it detects. Clicking OK on the incompatibility message displays the debug message, which contains additional information about the environment and is meant only for troubleshooting. After you click OK on the debug message, you cannot use the native application anymore.</p>

Compatibility Mode	Description
	<div> </div> <p>You could also encounter the debug message when using the browser version of Deltek Touch, but this is a very rare situation. It happens if the network communication fails during login because the application is retrieving the Touch Server version from the configuration.ini file. If the Touch Server version is not retrieved, the incompatible and debug messages display.</p> <p>The debug message displays when one of the following scenarios occur:</p> <ul style="list-style-type: none"> <li>▪ The minimum Touch Server version defined in Deltek Touch is greater than the version in the Deltek Touch Server. For example: <ul style="list-style-type: none"> <li>▪ App Minimum Touch Server Version: 1.0.3.0 <li>▪ Deltek Touch Server: 1.0.2.0 <li>▪ The maximum Touch Server version defined in Deltek Touch is lower than the version set in Deltek Touch Server. For example: <ul style="list-style-type: none"> <li>▪ App Maximum Touch Server Version: 1.3.1.0 <li>▪ Deltek Touch Server: 1.3.2.0 <li>▪ If there is no Touch Server version defined on the Deltek Touch Server or Deltek Touch cannot retrieve the current Touch Server version. <li>▪ If there is no product version retrieved by the client-side. <li>▪ If the product version is not supported by the client-side. <li>▪ If the API version is not supported by the client-side

Feature Matrix

Feature	Touch Version	2.1					
	Maconomy Version	X1	2.0	2.1	2.2	2.3	2.4
Weekly Time Registration		•	•	•	•	•	•
Daily Time Registration		•	•	•	•	•	•
Expense Registration			•	•	•	•	•
Mileage Registration			•	•	•	•	•
Approvals (Expense, Purchase Order, Vendor Invoice, Draft Invoice)				•	•	•	•
Rejected Time Flow				•	•	•	•
Approval by Employee Type				•	•	•	•
Possibility to Use Remarks on Favorites			•	•	•	•	•
Layout Configuration (see Layout Configuration Guide for details)		•	•	•	•	•	•
Server-Side Configuration Options (see Installation Guide for details)		•	•	•	•	•	•
Unicode Support				•	•	•	•
Support for RESTful Web Services (from 2.2.4 and 2.3 GA)					•	•	•
Auto-Completion of Domain Name		•	•	•	•	•	•
Password Management: Change, Reset, Expired and Blocked Password					⊕	⊕	⊕
Expense Justification					⊕	⊕	⊕
Support for SSO with Microsoft Azure							•
Registering Time in Days					⊕	⊕	⊕
Approving Time in Days					•	•	•
Support for Login to Touch Using Maconomy Credentials in an SSO Environment		•	•	•	•	•	•
Purchase Order Fields Available in Timesheet and						⊕	⊕

Feature	Touch Version	2.1					
Expense Sheet for Subcontractor							
Notifications for Rejected Expenses and Mileage				⊕	⊕	⊕	



The ⊕ symbol indicates that a feature is available for Touch installations using the RESTful API only. The • symbol indicates that the feature is available for both MScript and REST.

Standard Maconomy Functionality Not Available in Deltek Touch

The following Maconomy standard features are not available in Deltek Touch:

- Long text fields
- Approval by substitute or super approver
- Notifications for purchase orders, vendor invoices, and draft invoices
- Monthly timesheets
- Proxy time registration

Maconomy Configuration

Make sure that users have access to the following dialogs:

Time



This is valid only if you use the MScript Web service. If you use REST, you need only TimeRegistration, DailyTimeRegistration, JobFavorite and Notes.

- TimeRegistration
- DailyTimeRegistration
- DailyTimeSheets
- DailyTimeSheetLines
- JobFavorite
- TimeSheets

Expense

- ExpenseSheets
- MileageSheets
- DocumentArchives
- DocumentRevisions

Approvals

- ApprovalObjects
- ExpenseSheetLines
- TimeRegistrationDetails

Prerequisites

- PurchaseOrders
- ShowVendorInvoices
- InvoiceEditing

If use MScript in weekly or daily mode or if you use REST in daily mode, make sure that you mark the “Use daily time sheets” system parameter during installation to register time on a day at a time.

System Parameters - Maconomy Main Window (W 12.0 Demo)

File Edit Menu Reports Navigate Search Action Window Help

Menu

System Parameters x

Save [Icons]

▼ System Parameter

Group	Job Cost
Use daily time sheets	<input checked="" type="checkbox"/>
	0
	0.0
	0.00

Here is another recommended system parameter:

System Parameters - Maconomy Main Window (W 12.0 Demo)

File Edit Menu Reports Navigate Search Action Window Help

Menu

System Parameters x

Save [Icons]

Remove filter 3 System Parameter(s) shown where Internal name is *registra*

▼ System Parameter

Group	Job Cost
Allow Incomplete Time Registrations	<input checked="" type="checkbox"/>
	0
	0.0
	0.00

This system parameter is not required, but if you mark it, the application allows you to add a line with, for example, only a description. This task must be completed before submission.

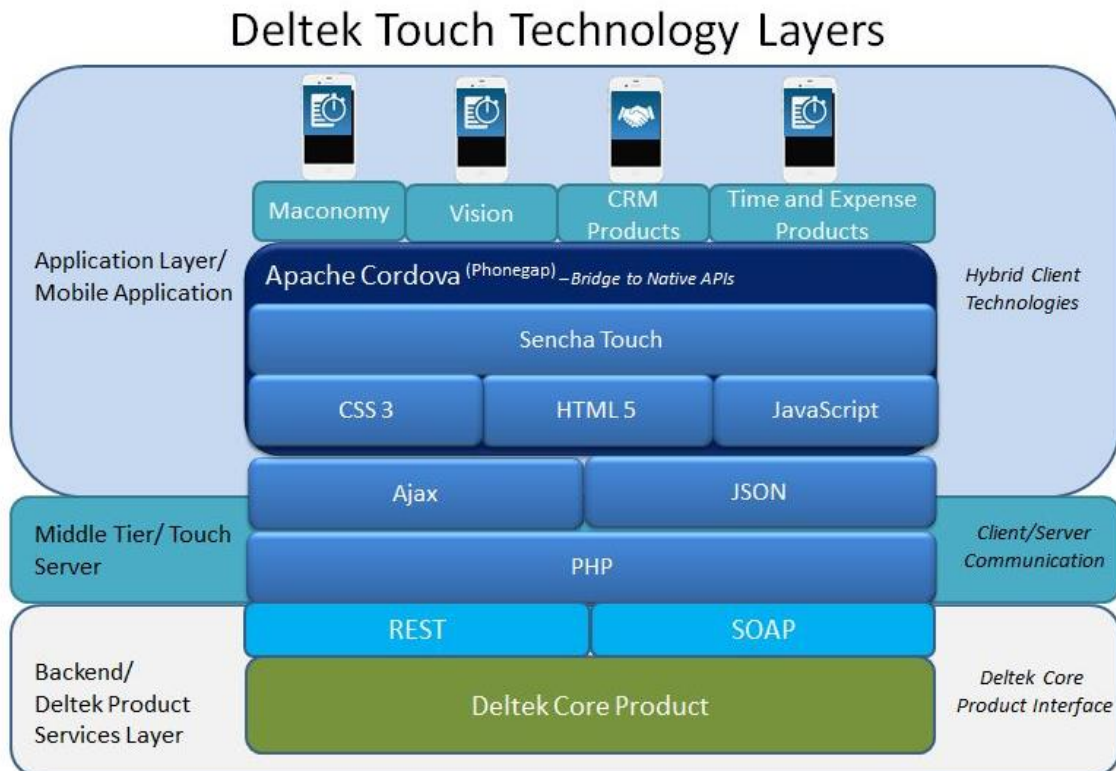
A similar system parameter can be enabled for expenses. This supports the workflow for Quick Capture.

Deltek Touch for Maconomy Infrastructure

The Deltek Touch for Maconomy infrastructure is composed of the application tier, middle tier, and services tier. The Touch Server (middle tier) is used to optimize service delivery and transform data when necessary. The Touch Server only communicates with the product service layer and does not have access to the database.

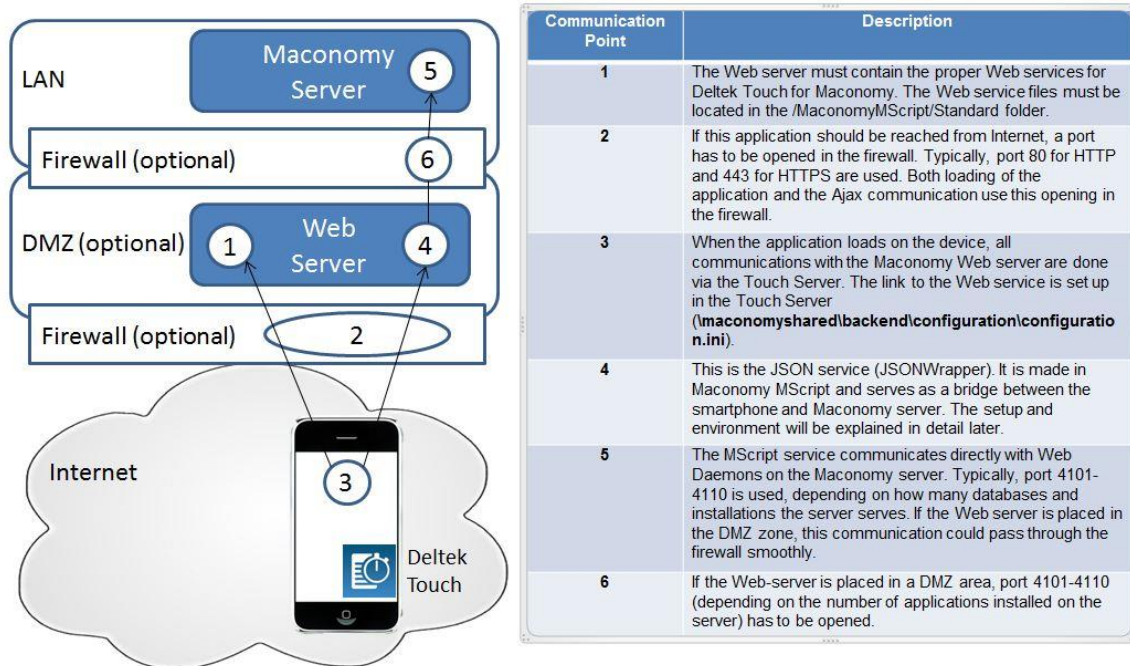
The Touch Application (client tier) is a hybrid application created using HTML 5 and CSS 3 but with the ability to access the native device capabilities.

Deltek Touch Technology Layers

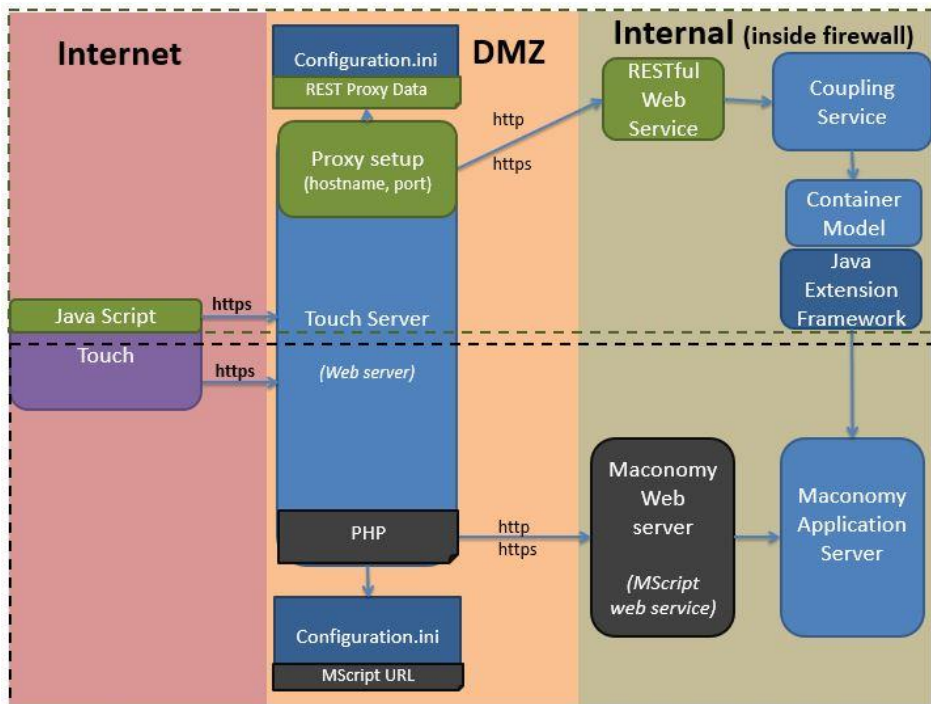


Services Tier

For Deltek Touch for Maconomy, the services tier corresponds to the Maconomy Web services. The interaction between the Maconomy product and Touch Time (client + middle tier) is illustrated below:



Touch 2.0 supports two Web services (MScript and REST) as illustrated below:



Supported Deployment Scenarios

The Deltek Touch for Maconomy application may be installed on another IIS or Apache server, or as a separate directory on an existing Maconomy IIS or Apache Web server.



Mobile applications now require HTTP/SSL, using a certificate from a recognized certificate authority. Self-signed and SHA-1 encrypted certificates cannot be used.

Deltek Touch for Maconomy Security

Deltek Touch for Maconomy is a front-end application that integrates with Deltek's traditional back office applications, such as Maconomy. Deltek Touch only interacts with the Web services layer of each of these applications, and no direct database interaction is performed. All data interaction is performed in the Web services layer.

User Authentication Models

Deltek Touch does not introduce users and passwords, or define its own models. Instead, it uses the existing product user provisioning, authentication, and authorization models.

Deltek Touch does introduce the PIN concept your convenience in application login. Once you log in to the system successfully, you can store a PIN to simplify subsequent logins. When the PIN feature is used, your credentials are stored on the device in encrypted form. The key to the encryption is your PIN. The PIN is not stored on the device, and therefore you must memorize it. When the PIN is entered, Deltek Touch tests to see if the credentials are successfully decrypted. If they are, Touch passes the credentials to the backend system for authentication. If the credentials do not decrypt after three attempts, the credentials are removed from the device storage and you must again enter their full credentials. If you do not use a PIN, you must enter your password each time you use the application.

The encryption is performed by the Stanford JavaScript Crypto Library (SJCL). SJCL uses industry-standard AES algorithm at 128, 192, or 256 bits; the SHA256 hash function; the HMAC authentication code; the PBKDF2 password strengthener; and the CCM and OCB authenticated-encryption modes.



For more information, see <http://bitwiseshiftleft.github.io/sjcl/>.

You log in to Deltak Touch using your domain credentials (this requires that both Maconomy and Deltak Touch are set up to use Single Sign-On via Kerberos) or using your Maconomy credentials.

Single Sign-On Via Kerberos

The first time you log in to Touch, you enter your network user name, password, and domain. Once successfully authenticated, you must set a PIN. Once you have set your PIN, you can log in using only this PIN. To protect your login credentials in transit, Deltak recommends that the Touch Web Server be configured to use HTTPS (instead of HTTP). The domain credentials are sent from your mobile device to the Maconomy Web server via the Touch Server.

Using HTTPS/TLS encrypts your network traffic, making it very difficult to sniff the credentials as they are passed to the Web server. On the Maconomy Web server, the domain credentials are used only to obtain a Kerberos ticket for the Maconomy service on your behalf. Your domain credentials are not stored on the Web server. As soon as this ticket is obtained, the credentials are deleted.

Single Sign-On Via Azure

The first time you log on to Deltak Touch, you enter your Azure credentials. The Azure user name is entered in Deltak Touch, but the password is entered in the native Windows Azure login screen. Once successfully authenticated, you must nominate a PIN. Once you have set your PIN, you can log on using only this PIN.

Your Azure credentials are not stored on the Touch Server or the Maconomy server. Instead, the token returned by Azure is sent to the Maconomy server to perform the Maconomy authentication. To protect the Azure token in transit, Deltak recommends that the Touch Web Server as well as the REST proxy server be configured to use HTTPS (instead of HTTP).

Sign on Using Maconomy Credentials

If Touch is not set up with Single Sign-On, you log on using your Maconomy credentials (user name and password). When logging on the first time using your Maconomy credentials, you have the option to set a PIN. Once you have set the PIN, you can use it for future logins. You can reset the PIN at any time or you can also switch back to using your Maconomy credentials instead of the PIN.

On the Maconomy Web server, the credentials are used for logging on to the Maconomy system. In a successful login, a token is added to the session and the session ID is sent back to your mobile device. From that point forward, any communication between the mobile device and Maconomy Web server includes the session ID for authentication. This means that the Maconomy credentials are sent from the mobile device to the Maconomy Web server only for the login. The password is not stored and cannot be reverse-engineered on the Maconomy Web server.

Security Assessments

Deltek strives to deliver a highly secure applications. Therefore, an independent security assessor, GuidePoint Security, has performed a Mobile Application Security Assessment with the intent of evaluating the security posture of Deltek's Mobile Touch suite of applications. The security baselines for the scope of the audit were the OWASP Top 10 Web Application vulnerabilities and the OWASP Top 10 Mobile vulnerabilities.



For more information, see https://www.owasp.org/index.php/Top10#OWASP_Top_10_for_2013.

Microsoft IIS Web Server Configuration on Windows Server 2008

Perform this procedure if you are going to install the Deltek Touch for Maconomy application on Windows Server 2008. The Deltek Touch for Maconomy installer checks if Microsoft Internet Information Services (IIS) is already installed before proceeding with the installation. The installation terminates if IIS is not yet installed.

To configure Microsoft IIS Web server on Windows Server 2008, complete the following steps:

1. Click **Windows » Start » Administrative Tools » Server Manager**.
2. Expand the **Roles** tree on the left pane, and click **Web Server (IIS)**.
3. When the Web Server (IIS) screen displays, click **Add Role Services** in the bottom right pane.
4. On the Select Role Services screen, perform the following actions:
 - Click **Web Server » Application Development**, and select **ISAPI Extensions** and **CGI**.
 - Click **Web Server » Management Tools**, and select **IIS Management Scripts and Tools**.
 - Click **Web Server » Management Tools » IIS 6 Management Compatibility**, and select **IIS 6 Metabase Compatibility**.
5. Click **Next**, and then click **Install**.
6. Click **Close** when the installation completes.
7. Expand the Web Server (IIS) tree on the left pane, and click Internet Information Services (IIS) Manager.
8. On the Internet Information Services (IIS) Manager screen, expand the IIS computer name icon on the left pane of the Internet Information Services (IIS) Manager window.
9. Right-click the IIS computer name icon, and select **Stop**.
10. Right-click the IIS computer name icon on the left pane of the Internet Information Services (IIS) Manager window, and select **Start**.
11. Close the Services Manager window.

Microsoft IIS Web Server Configuration on Windows 2012 Server

Perform this procedure if you are going to install the Deltek Touch for Maconomy application on Windows Server 2012. The Deltek Touch for Maconomy installer checks if Microsoft Internet Information Services (IIS) is already installed before proceeding with the installation. The installation terminates if IIS is not yet installed.



Deltek Touch for Maconomy requires Anonymous Authentication and does not support Basic Authentication.

To configure Microsoft IIS Web server on Windows 2012 Server, complete the following steps:

1. From the desktop view, display the Charm Bar. To do this, take one of the following actions:
 - Move the cursor to the bottom right corner of the screen, which causes the bar to display on the right.
 - On your keyboard, press the Windows key + **C**.



For more information about Charm Bar, see the following link: <http://windows.about.com/od/windowsforbeginners/a/Get-To-Know-The-New-Windows-8-Start-Menu.htm>.

2. Click **Start » Administrative Tools » Server Manager**.
3. On the left pane, click **IIS**.
4. On the right pane, scroll down to see the ROLES and FEATURES section.
5. From the **Tasks** drop-down list, select **Add Roles and Features**. The Add Roles and Feature Wizard displays.
6. Click **Next**.
7. Select the **Role-based or feature-based installation** option.
8. On the Select Destination Server page, verify if the **Select a server from the server pool** option is selected. Click **Next**.
9. On the Select server roles page, expand **Web Server (IIS) » Web Server » Application Development**, select **CGI** and **ISAPI** extensions.
10. On the Select server roles page, expand **Web Server (IIS) » Web Server » Management Tools**, and then select **IIS Management Scripts and Tools**.
11. Click on **Next**. The Select features page displays.
12. Click **Next**, and then click **Install**.

Deltek Touch for Maconomy Installation on Windows Server

Before you proceed, make sure that you downloaded the server component from Deltek Software Manager (DSM). Once the server part is installed, download the application from *Google Play Store* or *Apple App Store* and install it in your device.



For more information about DSM, see [Downloading Deltek Products using Deltek Software Manager](#) in this document.

To install the Deltek Touch application, complete the following steps:

1. Run **DeltekTouchMaconomy21.exe** to launch the installation program.



Taking into consideration the enhanced security in Windows Server 2008 and 2012, Deltek recommends selecting the **Run as Administrator** option when launching the installation executables even if you (as the logged-on user) has local administrative rights. You can access this option by right-clicking the installation executable file name in Windows Explorer and then clicking **Run as Administrator** on the shortcut menu.

2. On the Welcome to the Deltek Touch Maconomy 2.1 Installation Wizard page, click **Next**.
3. On the License Agreement page, review the license agreement, select the **I accept the terms of the license agreement** option, and click **Next**.
4. On the Select Web Server Type page, select one of the following options, and click **Next**:
 - **Apache Web Server**
 - **IIS**
5. On the Maconomy Product Information page, provide the necessary information, and click **Next**:
 - **Maconomy MScript URL** – Enter the full Maconomy Touch URL (for example, http://eu100242:20003/cgibin/Maconomy/MaconomyTouch.w16de.en_US.exe).
 - **Charset** – *You can only edit this field if you are performing a new install.* Select a character set from the drop-down list.



The default character set is **ISO-8859-1**. If you are on Maconomy 2.1.1 (or higher), you need to change the character set manually in configuration.ini from **ISO-8859-1** to **UTF-8**.

- **Maconomy 2.2.4 or later** – Select this option if your Maconomy core is 2.2.4 or later.



If this option is not marked, you will not be able to set up Touch to use the RESTful web services. If your Maconomy version is 2.2.4 / 2.3 GA or later, then is very important to mark this option, to be able to set up REST for Touch.

6. Take one of the following actions, depending on the selected Web server type in step 4 and the selection you make for the **Maconomy 2.2.4 or later** option in step 5:

Apache Web Server	IIS
If you selected Apache Web Server but do not select Maconomy 2.2.4 or later in step	If you selected IIS in step 4 but do not select Maconomy 2.2.4 or later in step 5,

Apache Web Server	IIS
5, the Choose Apache Installation Directory page displays. Proceed to step 7.	the Choose Application Install Directory page displays. Proceed to step 9.
<p>If you selected Apache Web Server in step 4 and Maconomy 2.2.4 or later in step 5, the REST Proxy Data page displays. Provide the necessary information, and click Next.</p> <ul style="list-style-type: none"> ▪ Host Name – Enter the host name of the REST endpoint machine (for example, touch.<company name>.com). ▪ Port Number – Enter the port number if there is a specific port connecting to REST endpoint. ▪ Language – Enter a specific Language to use in Maconomy core (for example, en-US). ▪ Database – Enter the short name of the Maconomy core. <p>Proceed to step 8.</p>	<p>If you selected Apache Web Server in step 4 and Maconomy 2.2.4 or later in step 5, the REST Proxy Data page displays. Provide the necessary information, and click Next.</p> <ul style="list-style-type: none"> ▪ Host Name – Enter the host name of the REST endpoint machine (for example, touch.<company name>.com). ▪ Port Number – Enter the port number if there is a specific port connecting to REST endpoint. ▪ Language – Enter a specific Language to use in Maconomy core (for example, en-US). ▪ Proxy Pass Client Code – Enter the connection for Multi-tenancy setup. ▪ Database – Enter the short name of the Maconomy core. ▪ IIS Site Name – Enter the IIS site name. If the IIS site is set to Default Web Site, this field should be blank. <p>Proceed to step 8.</p>

7. On the Choose Apache Installation Directory page, verify if the default location for the Apache Web software is correct, and click **Next**. Otherwise, click **Browse** to navigate to the installation folder, and click **Next**. Proceed to step 11.



The default folder is C:\Program Files (x86)\Apache on a 64-bit machine or C:\Program Files\Apache on a 32-bit machine.



If you selected **Apache Web Server**, the files are installed onto <INSTALL_DIR>\htdocs\DeltekTouch\Maconomy\Time_<MaconomyLanguage>. If multiple instances of Deltek Touch for Maconomy are installed (using the same Maconomy language) on Apache Web server, the folder name will be incremented.

For example:

1st instance -

<INSTALL_DIR>\htdocs\DeltekTouch\Maconomy\Time_<MaconomyLanguage>

2nd instance -

<INSTALL_DIR>\htdocs\DeltekTouch\Maconomy\Time_<MaconomyLanguage>_1

3rd instance -

<INSTALL_DIR>\htdocs\DeltekTouch\Maconomy\Time_<MaconomyLanguage>_2

You can rename the "Time_<MaconomyLanguage>_<number>" folder after the install; the updated folder name will reflect on the URL.

8. On the REST Module Setup, select the setup for REST Module and click **Next**:
 - **Use for Time** – Select this option to use RESTful Web service for time registration. If not selected, it uses the MScript Web service.
 - **Use for Expense** – Select this option to use RESTful Web service for expense and mileage registration. If not selected, it uses the MScript Web service.By default, the two options are not selected
9. On the Choose Application Install Directory page, verify if the default location for the Deltek Touch software is correct, and click **Next**. Otherwise, click **Browse** to navigate to the installation folder, and click **Next**. Continue with the next page (10).



If you selected **IIS**, the default folder is C:\Program Files (x86)\Deltek\Touch on 64-bit machine or else C:\Program Files\Deltek\Touch on 32-bit machine. You can run the installer multiple times to install several instances of Deltek Touch for Maconomy. Each instance, however, requires a new virtual directory pointing to a different physical location (Install Directory).

10. On the IIS Website Information page, select or enter the default Web site, and click **Next**.



Select the **Please check the box if the website is configured for SLL** check box to use the HTTPS protocol when transmitting data over the Internet.

If no site displays in the drop-down list, make sure you completed the steps from Microsoft IIS Web Server configuration on Windows Server from the previous section.

11. On the Pre-Installation Summary page, review the installation details that you provided. The set of information details on the Pre-Installation Summary page varies, depending on the Web server type that you selected in step 4.
 - If you want to change any settings, click **Back**, and make the necessary updates.
 - If you are done, click **Install** to begin the installation.



If there are errors, the DeltekTouchInstall.log file displays. For **Apache Web Server**, the log file is saved in the C:\Program Files\Apache folder. For **IIS**, the log file is saved in the Application Install folder.

You can test the REST Container URL specified on the screen.

12. When the installation is done, on the InstallShield Wizard Complete page, click **Finish**.



If you selected **Apache Web Server**, restart the Apache Windows service for the changes to take effect.



- For Apache, the default URL is **https://<server>:<port>/deltektouch/maconomy/time/**, where **<server>** refers to the host name of your Deltek Touch Server and **<port>** refers to the port number that the Maconomy server uses to listen for requests.
 - For IIS, the default URL is usually **https://<server>/deltektouch/maconomy/time/**.
-

Deltak Touch for Maconomy Installation on Linux Server

Perform this procedure if you are going to install the Deltak Touch for Maconomy application on Linux server.



A prerequisite for Deltak Touch is PHP. On RHEL 5.x, Deltak Touch has been tested with PHP 5.3.3. On RHEL 6.x, Deltak Touch used PHP 5.6.5.

Prerequisite

Before you proceed with the PHP upgrade, make sure that you alter the channel subscription and select the optional repository.



For more information, see <http://snippets.roozbehk.com/post/35750940300/php-mbstring-missing-on-red-hat-enterprise-linux-6>.

RHEL 5.6

The recent version is PHP 5.3.3 with Apache 2.2.3.

In the terminal window, run the following commands:

1. `yum install php533`
2. `yum install php53-mbstring.x86_64`

RHEL 6.0 and 6.5

The recent version is PHP 5.6.25 with Apache 2.4.

For the Apache 2.4 installation, complete the following steps:



If Apache 2.2 is installed, you should stop the original httpd (Apache 2.2) because the configurations would overlap. In addition, you should disable automatic startup of Apache 2.2 if enabled).

1. Download the file **rhsc1-httpd24-epel-6-x86_64-1-2.noarch** from the following link:
https://www.softwarecollections.org/repos/rhsc1/httpd24/epel-6-x86_64/noarch/
2. From WinSCP, copy the file from Windows to RHEL **/var/tmp**.
3. In the terminal window, run the following commands:
 - a. `rpm -i rhsc1-httpd24-epel-6-x86_64-1-2.noarch.rpm`
 - b. `yum install httpd24`
 - c. `ps -ef | grep httpd`
 - d. `/etc/init.d/httpd24-httpd start`

For the PHP 5.6.25 installation/upgrade, complete the following steps:



At this point, you may get a prompt stating that there are one or more dependencies missing from the system that should also be installed. You perform the installation manually because this is an SCL package and yum cannot install the dependencies automatically.

In the terminal window, run the following commands:

1. `yum list | grep rh-php56*`
2. `yum update rh-php56-php.x86_64`
3. `/etc/init.d/httpd24-httpd restart`



If Deltak Touch is still not working, perform the following actions after you complete any of the installation above, depending on your RHEL version.

1. Execute the command `sudo setsebool -P httpd_can_network_connect on`.
2. Launch the Deltak Touch Web site.



Before you perform the installation procedure, make sure that you rename **DeltakTouch** folder found on the specified location for **Apache Web Root** inside **installDeltakTouch.sh** file to **DeltakTouchPrev**. By default, the location is set to **/var/www/html**.

```
cd <location specified in Apache Web Root parameter>
mv DeltakTouch DeltakTouchPrev
```

The file name where the location of the Web root parameter is set is as follows:
./../Linux/installDeltakTouch.sh.

To install the application, complete the following steps:

1. Copy **DeltakTouchMaconomyLinux21.tar** and save it to a temporary folder on a Linux machine.
2. Extract the TAR file using `tar -xvf DeltakTouchMaconomyLinux21.tar`. The files are extracted to the Linux sub-directory.
3. Update the following properties in install **DeltakTouch.sh** within the section enclosed in "-----".

- APACHE_PORT
- SVR_NAME
- CHARSET
- PHP_INSTALLED
- APACHE_WEB_ROOT
- INSTALL_DIRECTORY
- URLLDomain
- CLIENTURL
- MACONOMY_224UP

If the current Maconomy core is 2.2.4 or later, provide details for the following entries:

- REST_HOST_NAME
- REST_PORT_NUMBER

- REST_LANGUAGE
 - REST_DATABASE
 - USERESTFORTIME
 - USERESTFOREXPENSE
4. Run the following command from the terminal to install the software:

```
./installDeltekTouch.sh
```



Make sure you run the command as root user.

5. After the installation, restart the Apache Web server for the changes to take effect.

Deltek Touch for Maconomy Setup

This section contains information on how to set up Deltek Touch for Maconomy, corresponding service pack, hot fix, Web services, and related configuration settings.

Maconomy MScript Web Services

This section is mandatory. It includes the installation of the MScript Web services.



Even if you prefer to use the RESTful Web services, you still need to have the MScript Web services installed.

MConfig

Deltek recommends that you use the latest MConfig version, which you can download from DSM, under the release corresponding to your Maconomy version. Your MConfig version cannot be older than 8.8.

Maconomy Service Pack

- If you are using Maconomy X1 Service Pack 24 or lower, you must upgrade to Service Pack 25 or later, which you can download from DSM.



If you are using Maconomy X1 Service Pack 25, you do not have to do anything in this step.

- If you are using Maconomy 2.0 Service Pack 2 or lower, you must upgrade to Service Pack 3 or higher, which you can download from DSM.



If you are using Maconomy 2.0 Service Pack 3 or higher, you do not have to do anything in this step.

- If you are using Maconomy 2.1 (GA) or lower, you must upgrade to 2.1.1 or higher, which you can download from DSM.



If you are using Maconomy 2.1.1 or higher, you do not have to do anything in this step.

- If you are using Maconomy 2.2 LA, you must upgrade to 2.2 GA or higher, which you can download from DSM.



If you are using Maconomy 2.2 (GA) or higher, you do not have to do anything in this step.

Maconomy Hot Fix

You need to install the Hot Fix containing the latest Maconomy Web services for Touch.



The hot fix contains only the files needed for Touch Time, as well as all dictionaries (similarly to APU). During the FPU installation, the Coupling Service restarts due to applying the dictionaries.

- If you are using Maconomy X1, you need to install **fpu.w1200.touchapi_2_1_0_0.tgz**, which you can download from DSM, under the release corresponding to your Maconomy version.



You can only install this hot fix on Maconomy X1 Service Pack 25-29.

- If you are using Maconomy 2.0, you need to install **fpu.w1500.touchapi_2_1_0_0.tgz**, which you can download from under the release corresponding to your Maconomy version.



You can only install this hot fix on Maconomy 2.0 Service Pack 3-9.

- If you are using Maconomy 2.1, you need to install **fpu.w1600.touchapi_2_1_0_0.tgz**, which you can download from under the release corresponding to your Maconomy version.



You can only install this hot fix on Maconomy 2.1.1, 2.1.1 Cumulative Updates 1, 2.1.4, 2.1.5, 2.1.6, 2.1.7, and 2.1.8.

- If you are using Maconomy 2.2, you need to install **fpu.w1700.touchapi_2_1_0_0.tgz**, which you can download from under the release corresponding to your Maconomy version.



You can only install this hot fix on Maconomy 2.2, 2.2.1, 2.2.2, 2.2.3, and 2.2.4.

- If you are using Maconomy 2.3, you need to install **fpu.w1900.touchapi_2_1_0_0.tgz**, which you can download from under the release corresponding to your Maconomy version.



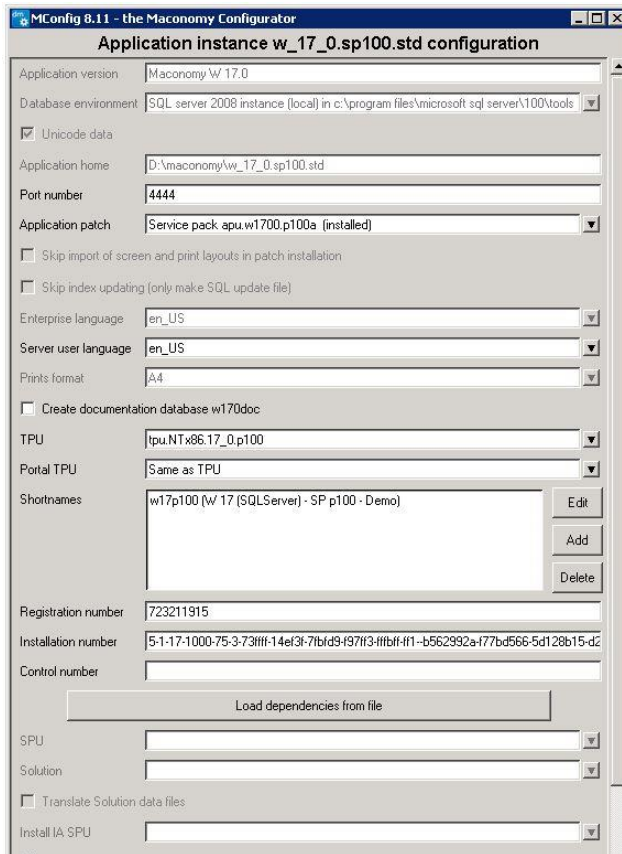
You can only install this hot fix on Maconomy 2.3 LA, and 2.3 GA.

- If you are using Maconomy 2.4, you need to install **fpu.w2000.touchapi_2_1_0_0.tgz**, which you can download from under the release corresponding to your Maconomy version.



You can only install this hot fix on Maconomy 2.4 LA.

The hot fix should be installed the same way as an application patch using **MConfig**:

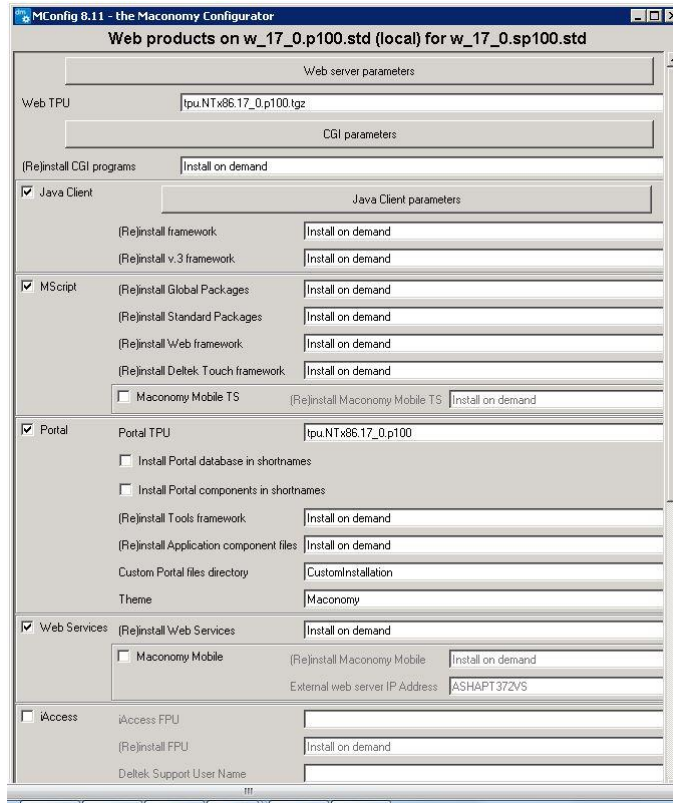


Install MScript Web Services

If the Maconomy system has already had Touch installed, **when installing the FPU, you are prompted to apply it to the Web server. ClickYes.** This action installs the Touch Web service on the Maconomy Web server, so you do NOT need to do it manually.

If you do not get this message, you need to apply the Web service using **MConfig** on the Maconomy Web server manually:

1. On the **Web** product, select the **MScript** option.
2. From the **(Re)install Deltek Touch framework** drop-down list, select the **Install unconditionally** option.



Check if the Web services are customized and notify the relevant parties to update the customizations manually. The Web service is customized if there is a Custom or Solution folder in MaconomyMScript folder on the Web server. If these folders contain files (for example, **DeltekTouch.I**), the person who created the file must be notified to update it manually based on the changes to the file with the same name in the Standard folder.

Install MaconomyTouch CGI Program

Starting with 1.4, Touch will use MaconomyTouch CGI program, instead of MaconomyMScript. Switching to MaconomyTouch CGI is necessary for security reasons because it enforces a default timeout of one hour.

Check your Maconomy Web server if it has already had MaconomyTouch.*.exe and MaconomyTouch.*.I (in .../cgi-bin/Maconomy).

- If so, the MaconomyTouch CGI program is already installed.
- Otherwise, you can install MaconomyTouch like any CGI program using **MConfig**. From the **(Re)install CGI programs** drop-down list, select the **Install unconditionally** option.

In using Deltek Touch for Maconomy, make sure that session cookies are disabled. You can set it in the related MaconomyTouch.I file using the following parameters:

SessionCookies=0



This only applies to Maconomy X1. In 2.0 and higher, it is done automatically.

Update configuration.ini

Make sure that configuration.ini is using the **MaconomyTouch** CGI program, instead of MaconomyMScript, in **URL**.

The configuration.ini structure has been changed. It contains only the URL (instead of URL, MSCRIPTNAME and LANGUAGE). Make sure that the URL is containing the full path (for example, URL='http://myhost:20003/cgi-bin/Maconomy/MaconomyTouch.w16de.en_US.exe/Standard/DelteKTouchWS.ms').

Install Dictionaries

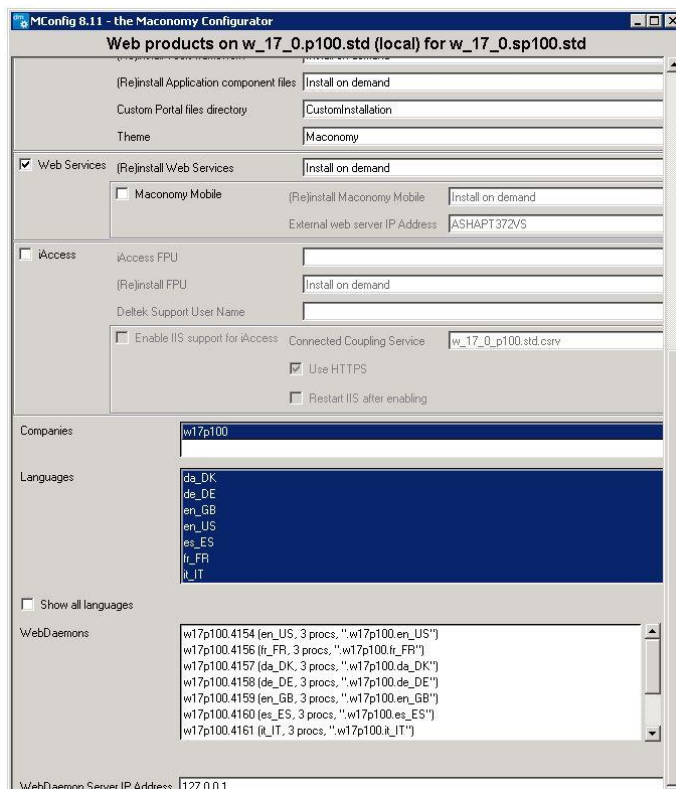
This section is optional. It is only needed if you want to localize Deltek Touch.

For translating Touch to Danish, Swedish, Norwegian or Dutch, you have to install the dictionaries using **MConfig**. From the **(Re)install CGI programs** drop-down list, select **Install unconditionally** option.



Selecting this option also creates MaconomyTouch.*.exe and MaconomyTouch.*.I.

To install additional dictionaries, select the languages you want to install from the **Language** drop-down list.



Maconomy RESTful Web Services

This section is optional. It is only needed if you want to use the RESTful Web services in Deltek Touch.

One of the major changes in Touch 2.1 is that it allows you to use the Maconomy RESTful Web services in certain functional areas.

Functional Area	RESTful Web Services	MScript Web Services
Time Registration	X	X
Expense Registration	X	X
Mileage Registration	X	X
Approvals	-	X

The main prerequisite for using RESTful Web services is **Maconomy 2.2.4 / 2.3 GA** or later.

If you meet this prerequisite:

- **For new installations:** Deltek highly recommends that you use RESTful Web services, wherever possible because of the new functionality is available only on this Web service The Deltek Touch Installer also recommends that you the use of RESTful Web services.



For more information, see the *Deltek Touch for Maconomy MScript and RESTful Web Services Comparison Guide*.

- **For upgrades:** Deltek recommends that you use MScript Web services, to start with. If possible (Maconomy 2.2.4/2.3 GA or later), you can switch to RESTful Web services after the upgrade. There are other important aspects that you should be taking into account when deciding which web service you would like to use.



For more information, see the *Deltek Touch for Maconomy Upgrade Guide*.

Using the RESTful Web Services in Deltek Touch 2.1

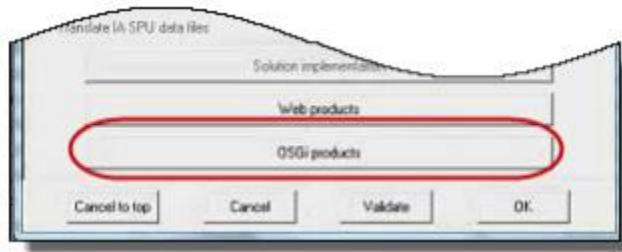
Enable RESTful Web Services in Maconomy

The RESTful Web services need to be enabled in the Coupling Service. If this is already the case, continue with the Proxy Server setup. Otherwise, perform the instructions discussed in this section.

To enable the RESTful Web services, complete the following steps:

1. Right-click the MConfig executable, select **Run as administrator**, and follow the prompts accepting all default values.
2. In the MConfig Main window, double-click the application to open.

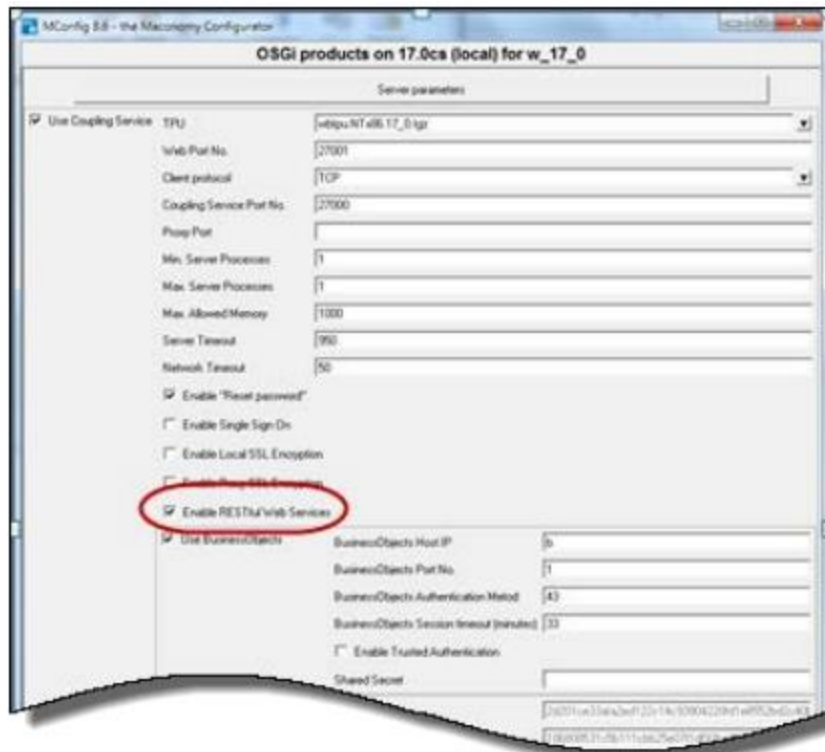
3. In the Application Instance window, click **OSGi products**.



4. On the **OSGi Server Selection** screen, select the Coupling Service to update.



5. Select the **Enable RESTful Web Services** option.



6. Click **OK** to save.
7. When the SSL warning displays, click **OK** to return to the Application Instance window.
8. Click **OK** to accept the changes and return to the main screen.

9. Click **Next**, **Next**, and **Yes** to complete the installation.

Proxy Server Setup

Apache

To enable the proxy server in Apache, complete the following steps:

1. Open the “httpd.conf” file.
2. Add the following line of codes:

```
ProxyRequests Off  
ProxyPreserveHost On
```

3. Add the “ProxyPass” for containers and filedrop REST API, for example:

```
ProxyPass /containers http://10.1.1.11:1111/containers retry=0  
ProxyPass /filedrop http://10.1.1.11:1111/filedrop etry=0
```

4. Restart the Apache Server.

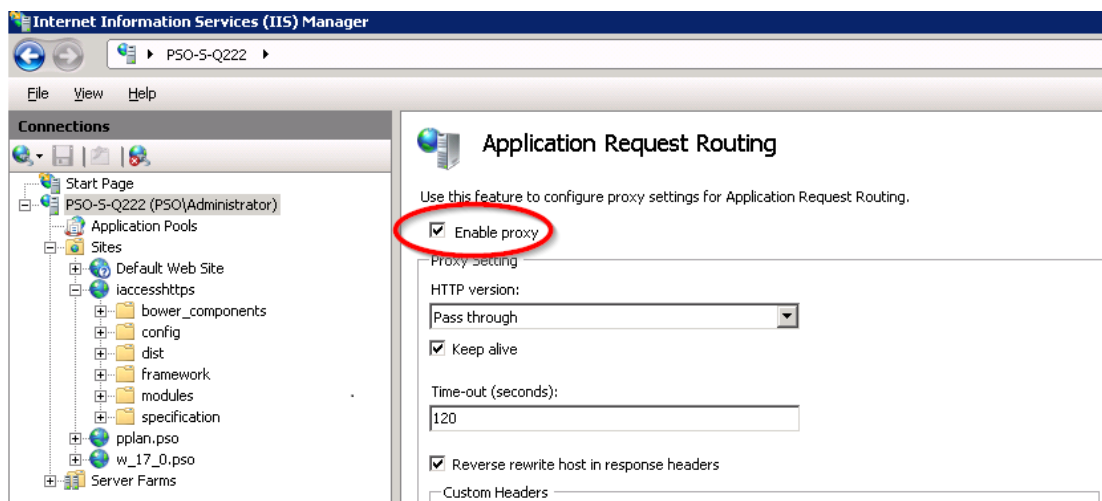
IIS

Before you set up the proxy server in IIS, you need to install the **Microsoft IIS URL Rewrite 2.0** and install the **Application Request Routing (ARR)**.



- For more information on IIS URL Rewrite, see <http://www.iis.net/downloads/microsoft/url-rewrite>.
- For more information on installing the ARR plugin, see <http://www.microsoft.com/en-us/download/details.aspx?id=39715>. In IIS 8.0 and 8.5, you need to install the “Web Platform Installer” before you can install the ARR plugin.

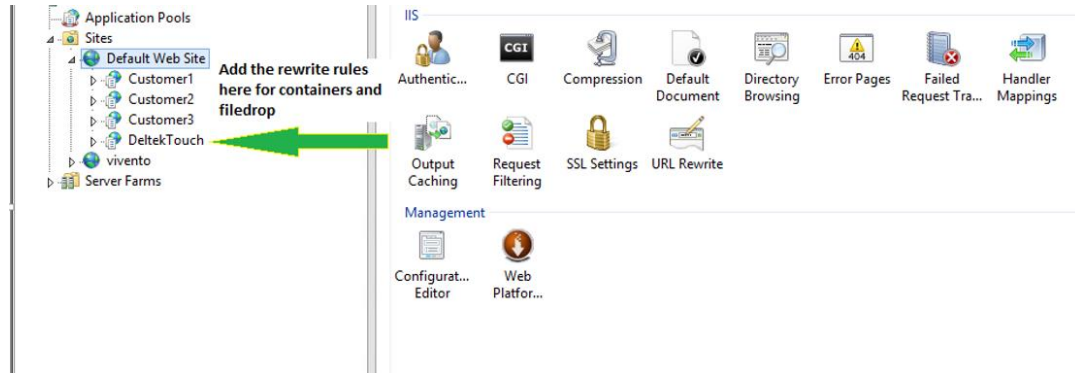
1. Restart IIS Manager.
2. In the “Application Request Routing” configuration window, click **Server Proxy Settings**.
3. Select **Enable proxy**.



To perform the proxy server setup, complete the following steps:

1. Add the rewrite rules for the proxy in the IIS manager. First click the website where you want to define the rewrite rules.

Deltek recommends that rules must be added to the local site (for example, DeltekTouch) not to the root site (for example, Default Web Site).

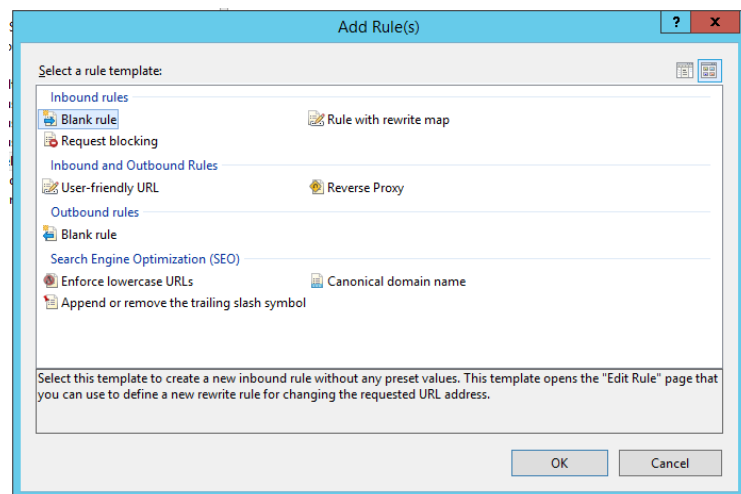


2. Click the applet **"URL Rewrite."**
3. Add the rules for "containers" REST API for specific client. For more information, see the Add Rules to "containers" REST API section.
4. Add the rules for "filedrop" REST API for specific client. For more information, see the Add Rules to Filedrop API section.
5. Restart the IIS Manager.

Add Rules to the "containers" REST API

To add the rules to container API, complete the following steps:

1. Open the **URL Rewrite** applet.
2. In the Actions pane, click **Add Rule(s)**.
3. On the Add Rule(s) dialog box, select the **Blank Rule** option in the **Inbound rules** section.



4. Click **OK**.

5. On the Edit Inbound Rules window, enter or select the appropriate values:

Edit Inbound Rule

Name: Containers

Match URL

Requested URL: Matches the Pattern Using: Wildcards

Pattern: /containers/* Test pattern...

☒ Ignore case

Conditions

Server Variables

Action

Action type: Rewrite

Action Properties

Rewrite URL: http://127.0.0.1:4111/containers/{R:1}

☒ Append query string

☐ Log rewritten URL

☐ Stop processing of subsequent rules

- **Name** – Set the rule name (for example, Containers).
 - **Requested URL** – Select the **Matches the Pattern** option.
 - **Using** – Select the **Wildcards** option.
 - **Pattern** – Enter the pattern, for example, /containers/*.
 - **Ignore case** – Select this option.
 - **Conditions** – *Do not change anything.*
 - **Server Variables** – *Do not change anything.*
 - **Action**
 - **Action type** – Select the **Rewrite** option.
 - **Action Properties**
 - **Rewrite URL** – Enter the URL for the RESTful API, for example, <http://10.1.1.111:1111/containers/{R:1}>.
 - **Append query string** – Select this option.
 - **Log rewritten URL** – Do not select this option.
 - **Stop processing of subsequent rules** – Do not select this option.
6. On the right pane, click **Apply**.

Add Rules to the Filedrop API

To add the rules to the filedrop API, complete the following steps:

1. Open the **URL Rewrite** applet.
2. In the Actions pane, click **Add Rule(s)**.
3. On the Add Rule(s) dialog box, select the **Blank Rule** option in the **Inbound rules** section.
4. Click **OK**.
5. On the Edit Inbound Rules window, enter or select the appropriate values:
 - **Name** – Set the rule name (for example, Filedrop).
 - **Requested URL** – Select the **Matches the Pattern** option.
 - **Using** – Select the **Wildcards** option.
 - **Pattern** – Enter the pattern, for example, **/filedrop/***.
 - **Ignore case** – Select this option.
 - **Conditions** – *Do not change anything.*
 - **Server Variables** – *Do not change anything.*
 - **Action**
 - **Action type** – Select the **Rewrite** option.
 - **Action Properties**
 - **Rewrite URL** – Enter the URL for the RESTful API, for example, <http://10.1.1.111:1111/filedrop/{R:1}>.
 - **Append query string** – Select this option.
 - **Log rewritten URL** – Do not select this option.
 - **Stop processing of subsequent rules** – Do not select this option.
6. On the right pane, click **Apply**.

Preserve Host Header

1. Open a console with Administrative privileges, and navigate to the following folder:
C:\Windows\System32\inetsrv
2. Enable **preserveHostHeader** by running the following command:


```
cd C:\Windows\System32\inetsrv
appcmd.exe set config -section:system.webServer/proxy
/preserveHostHeader:"True" /commit:apphost
```
3. Restart the Web server.

Update configuration.ini

This procedure allows you to update the configuration.ini file.

To update the configuration.ini file, complete the following steps:

1. Make sure that the [REST_PROXY_DATA] section has the correct information.

For example:

```
[REST_PROXY_DATA]
REST_HTTP_PROTOCOL="https"
REST_DOMAIN_NAME="makapt9vs.ads.deltek.com"
REST_HTTP_PORT=""
REST_CONTAINER_NAME="containers"
REST_FILEDROP_NAME="filedrop"
REST_VERSION="v1"
REST_DATABASE="m19rs1"
REST_LANGUAGE="en-US"
REST_AUTHENTICATION_TYPE="BASICAUTH"
```

2. Change the settings in the [REST_MODULE_SETUP] section according to your need:
 - Set USERESTFORTIME="true" if you want to use the RESTful Web services for time registration
 - Set USERESTFOREXPENSE="true" if you want to use the RESTful Web services for expense and mileage registration
 - It is mandatory to keep USERESTFORAPPROVALS="false" because Deltek Touch 2.0 does not support RESTful Web services in approvals.

configuration.ini

The configuration.ini is a setting file utilized by Deltek Touch 2.0 to provide environment information to the Touch application. The new parameters in configuration.ini are used to support the new Maconomy RESTful API while still supporting the existing MScript technology.


```
; *****
; Maconomy Touch Configuration File
; *****

[SERVER_DATA]
URL="http://10.1.1.111:1111/cgi-bin/Maconomy/MaconomyTouch.w190p100.en_US.exe/Standard/DeltekTouchWS.ms"
CHARSET="UTF-8"
DYNAMICSCRIPT="false"
DEBUGGERFL="false"
TOUCHSERVERVER="2.0.0.0"
HELPOURL="http://clientsite.deltek.com/deltektouchdownloads/docs/DeltekMaconomyTouchTimeUserGuide.pdf"
CLIENTURL="https://clientsite.deltek.com/20_23Rest"

[REST_PROXY_DATA]
REST_HTTP_PROTOCOL="http"
REST_DOMAIN_NAME="localhost"
REST_HTTP_PORT=""
REST_PROXYPASS_CLIENT_CODE="tenantcode"
REST_CONTAINER_NAME="containers"
REST_FILEDROP_NAME="filedrop"
REST_VERSION="v1"
REST_DATABASE="w190p100"
REST_LANGUAGE="en-US"
REST_IIS_TOUCH_FOLDER_NAME=""
REST_AUTHENTICATION_TYPE="BASICAUTH"

[REST_MODULE_SETUP]
USERESTFORTIME="true"
USERESTFOREXPENSE="true"
USERESTFORAPPROVALS="false"
```

Existing Parameters

```
; *****
; Maconomy Touch Configuration File
; *****

[SERVER_DATA]
URL=""
CHARSET=""
DYNAMICSCRIPT=""
DEBUGGERFL=""
TOUCHSERVERVER=""
HELPOURL = ""
CLIENTURL=""
```

New Parameters

In Deltek Touch 2.0, the following parameters have been added to support the Maconomy RESTful Web service and multi-tenantsetup.

The new parameters are divided into two sections: **REST_PROXY_DATA** (which contains connection details parameters) and **REST_MODULE_SETUP** (contains parameters responsible for enabling the REST functionality in the time, expense, and approvals modules).

```
[REST_PROXY_DATA]
REST_HTTP_PROTOCOL=""
REST_DOMAIN_NAME=""
REST_HTTP_PORT=""
REST_PROXYPASS_CLIENT_CODE=""
```

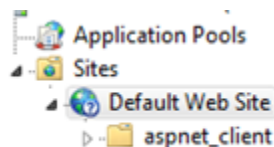
```
REST_CONTAINER_NAME=""
REST_FILEDROP_NAME=""
REST_VERSION=""
REST_DATABASE=""
REST_LANGUAGE=""
REST_IIS_TOUCH_FOLDER_NAME=""
REST_AUTHENTICATION_TYPE=""

[REST_MODULE_SETUP]
USERESTFORTIME=""
USERESTFOREXPENSE=""
USERESTFORAPPROVALS=""
```

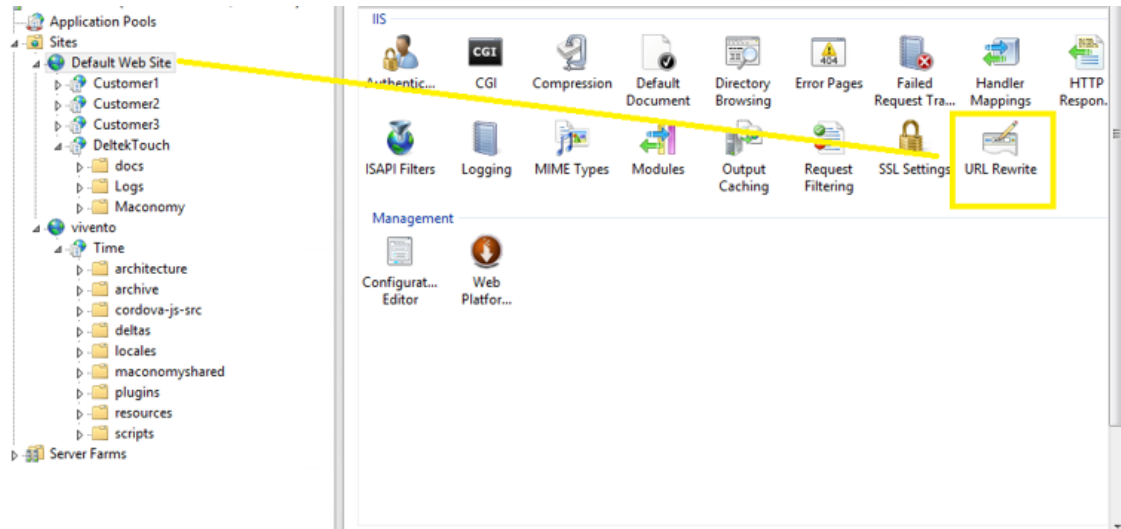
Description of the New Parameters

REST_PROXY_DATA

- **REST_HTTP_PROTOCOL** – This parameter is set by the Touch Installer to "https." It represents the protocol (HTTP/HTTPS) used on the REST requests initiated from the Touch client. You can change it in the configuration.ini to "http," if you are in an early phase of the Touch installation and you do not have an SSL certificate yet. However, you can test Deltek Touch only using the Web application. Before you complete the Deltek Touch installation, you must have this parameter set to "https," else the Touch native apps will not work.
- **REST_DOMAIN_NAME** – This is the host name of the Touch Server. It refers to the computer name or the IP address of the Touch Server.
- **REST_HTTP_PORT** – This is the associated port number. If the REST Web service is running in a secured layer, it should be in 443. Otherwise, leave this field blank or set it to the appropriate value.
- **REST_PROXYPASS_CLIENT_CODE**– Enter a value if there are multiple proxy setup in the Touch Server. The value that you can set from this parameter is derived from the Web site name of Touch. For example, <http://clientsite.com/Customer1>, which means the value of this parameter is "Customer1". Typically, this is a distinct way of accessing the REST proxy server setup in the Web server.
- **REST_CONTAINER_NAME** – Enter **containers**.
- **REST_FILEDROP_NAME** – Enter **filedrop**.
- **REST_VERSION** – Enter **v1**.
- **REST_DATABASE** – This is the database name of the RESTful Web service.
- **REST_LANGUAGE** – This is the locale code. Typically, this parameter is the same value as the language being set up for Mscrypt.
- **REST_IIS_TOUCH_FOLDER_NAME** – This is only used if the Deltek Touch is hosted using IIS and the rewrite rules to access the REST API have not been configured in the root or Default Web site.

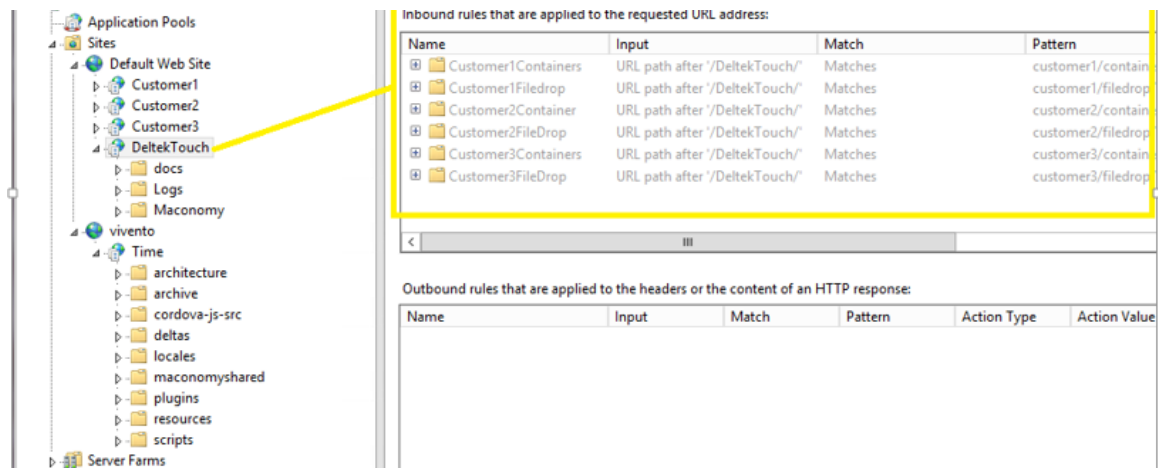


To determine if the rewrite rules have been configured in the root Web site, you need to open the IIS URL Rewrite.



How to set the value of REST_IIS_TOUCH_FOLDER_NAME?

If the rewrite rules for accessing the REST_API have not been placed in the root Web site, set the value of this parameter using the name of the Web site where the rewrite rules were configured.



For example, in the screenshot, the rewrite rules are in the Deltek Touch web site. In the **Input** column, the **URL path after '/DeltekTouch/'** value displays. In this case, use **DeltekTouch** as the value for the parameter.

- **REST_AUTHENTICATION_TYPE** – The value for this parameter is “BASICAUTH.”

REST_MODULE_SETUP

- **USERESTFORTIME** – Valid values are true or false. True means the time registration functionality uses the REST API. False means it uses MScript.
- **USERESTFOREXPENSE** – Valid values are true or false. True means the expense and mileage sheet functionality uses the REST API. False means it uses MScript.
- **USERESTFOREXPENSE** – Deltek Touch 2.0 must use the false value.

Server Side Configuration Settings

This section is optional. You can modify the following configuration options that are included in the MaconomyMScript\Standard\DeltekTouch.I.

Key	Valid Options	Default Value	Description
Submit	Daily, Weekly	Weekly	This option specifies whether you register and submit time on a daily or weekly basis.
searchMaxRowcount	0-100	30	This is used to restrict the number of rows that a search returns.
searchtext	Search	Search	This option is NOT used in this release.
debug	true or false	False	<i>This does not apply to REST.</i> This options works in Touch 1.x, and MScript Touch 2.0. If you set debug = true , it logs some of the error messages occurring when using the MScript Web service.
IncrementalMinutes	Minutes	Empty	This option controls the increment used in the hour picker. If empty, it usse the Registration Unit user settings specified on the Settings screen of Touch. The Registration Unit user setting has priority over the IncrementalMinutes server setting. This server setting is usefull to set the default increment for all users, but users have the option to overwrite this in the user setting. For example: if IncrementalMinutes is set to 15, you can enter hours like 1:00, 1:15, 1:30, 1:45 in the application.
IncrementalDays	Real	Empty	This option controls the increment used in the day picker. If empty, it uses the Registration Unit user settings specified on the Settings screen of Touch. The Registration Unit user setting has priority over the IncrementalDays server setting. This server setting is usefull to set the default increment for all users, but users have the option to overwrite this in the user setting. For example: if IncrementalDays is

Key	Valid Options	Default Value	Description
			set to 0.15, you can enter days like 0, 0.15, 0.30, 0.45, 0.60 in the application.
UseExternalCredentials	true or false	False	This option controls whether you use external credentials (Kerberos or Azure). If you would like to be able to log on to Touch Time using your domain/network/Azure credentials, and Maconomy is set up to support it, then please set this option to true.
ExternalCredentialsType	Kerberos or Azure	Kerberos	Specifies what kind of external credentials we support in Delttek Touch. Considered only if UseExternalCredentials = true, else the setting is ignored. Specifies which charset should be used for the external login credentials (user name, password, and domain when using Kerberos SSO). If you experience issues with Danish characters in domain password, try changing it to iso-8859-1.
ExternalCredentialsCharset	UTF-8 ISO-8859-1	UTF-8	Specifies which charset should be used for the external login credentials (user name, password, and domain when using Kerberos SSO). If you experience issues with Danish characters in domain password, try changing it to iso-8859-1
AzureNativeClientID	String	Empty	This setting is relevant only for Azure. Represents the ClientID of the Azure native application, to be used by the Delttek Touch native application.
AzureRedirectURI	String	Empty	This setting is relevant only for Azure. Represents the Redirect URI of the Azure native application to be used by the Delttek Touch native application.
ShowMissingTimesheetsDue	true or false	True	<i>This does not apply to REST.</i> This option controls the status of missing (not created before the current date) daily timesheets. If true , the status is Due , else the status is

Key	Valid Options	Default Value	Description
			New.
WeekStart	0 (Sunday), 1(Monday), 2(Tuesday) 3(Wednesday) 4(Thursday) 5(Friday) 6(Saturday)	1	This option controls which day displays as the first day in the Calendar. It can be overwritten by the "Week Start" user setting. The server setting is only the default value for the user setting.
MandatoryRejectionRemark	true or false	True	<p>This option is available only in Maconomy 2.1.1 and higher.</p> <p>This option controls if you have to specify a rejection comment when rejecting a time sheet.</p> <ul style="list-style-type: none"> ▪ If true, you must specify a rejection comment, else you cannot reject. ▪ If false, the rejection comment is optional.
CustomSubmitTimesheetAction	String	Empty string	<p><i>This does not apply to REST.</i></p> <p>The name of the custom action used for submitting time sheets, if any</p>
ShowOnlyPOLinesToApprove	true or false	True	<p>This option is available only in Maconomy 2.1.1 and higher.</p> <p>When approving purchase order lines, you see the entire purchase order.</p> <p>This setting controls which of the lines you want to see when approving PO lines</p> <ul style="list-style-type: none"> ▪ If true (default), it only displays PO lines you can approve. ▪ If false, it displays all PO lines in the given PO, including the lines you can approve.
ShowOnlyInvoiceAllocationLinesToApprove	true or false	True	<p>This option is available only in Maconomy 2.1.1 and higher.</p> <p>When approving invoice allocation lines, you see the vendor invoice and its allocation.</p> <p>This setting controls which of the lines you want to see when approving invoice allocation lines.</p>

Key	Valid Options	Default Value	Description
			<ul style="list-style-type: none"> If true (default), it only displays invoice allocation lines you can approve. If false, it only displays all invoice allocation lines for the given vendor invoice, including the lines you can approve.
NotificationRecalculationInterval	Integer	1800	<p>This option is available only in Maconomy 2.1.1 and higher.</p> <p>This setting controls the frequency (in seconds) of recalculating the <code>notification (approval and rejected time)</code> counters in the background.</p> <ul style="list-style-type: none"> For disabling the background recalculation, use -1. Setting under 5 min (300 sec) may lead to performance penalties on the Maconomy server.
CopyRemarkFromTimeSheetLineToFavorite	true or false	False	<p>This option is available only in Maconomy 2.0 and higher.</p> <p>This setting controls if the Remark field should be copied from the time sheet line to the favorite when creating a new favorite based on a time sheet line</p> <p>If true, the Remark field value is copied from the timesheet line into the favorite (which is created from the time sheet line)</p> <p>If false, the Remark field value is NOT copied from the timesheet line into the favorite (which is created from the time sheet line)</p>
ExpenseAttachmentType	string	"header and line"	<p>This option is available only in Maconomy 2.0 and higher.</p> <p>This setting controls where can you attach receipts to expenses. It can have one of the following values:</p> <ul style="list-style-type: none"> "none" = This value indicates that it is not possible to attach

Key	Valid Options	Default Value	Description
			<p>receipts to expenses at all.</p> <ul style="list-style-type: none"> ▪ "header" = This value indicates that it is possible to attach receipts only to the expense sheet header. ▪ "line" = This value indicates that it is possible to attach receipts only to the expense sheet line. ▪ "header and line" = This value indicates that it is possible to attach receipts to both the expense sheet header and line.
ShowJobsWithEmployeeControl	true or false	False	<p>This option is available only in Maconomy 2.0 and higher.</p> <p>It allows you to see the employee's jobs (based on Employee Control) on the Find Job screen when creating a time sheet line using a job</p> <ul style="list-style-type: none"> ▪ If true, the All tab displays the Recently used projects and My Job list (jobs the user has access to via Employee Control) ▪ If false, the All tab displays the Recently used projects only list.
ShowZeroHourJobsInSummary	true or false	True	<p>This option is available in all supported Maconomy versions.</p> <p>It controls the Summary screen, Job tab content.</p> <ul style="list-style-type: none"> • If true (default): the time sheet summary will show all job/task/activity combinations, used in the selected weekly time sheet • If false: the time sheet summary will show only job/task/activity combinations, used in the selected weekly time sheet, which are having hours registered
AllowNegativeHoursInTimeSheets	true or false	false	<p>This option is available in all supported Maconomy versions.</p> <p>Determines if you are allowed to enter</p>

Key	Valid Options	Default Value	Description
			<p>negative hours on time sheet lines in Timesheet and Timesheet Line screens</p> <ul style="list-style-type: none"> If true: you are allowed to enter both positive and negative hours on time sheet lines If false (default): you are allowed to enter only positive hours on time sheet lines
AllowNegativeDaysInTimeSheets	True or false	false	<p>This option is available to all supported Maconomy versions.</p> <p>Determines if you are allowed to enter negative days on timesheet lines on the Timesheet and Timesheet Line screens</p> <ul style="list-style-type: none"> If this is set to true, you are allowed to enter both positive and negative days on timesheet lines. If false (default), you are allowed to enter only positive days on timesheet lines.
ShowExpense	true or false	True	<p>This option is available only to Maconomy 2.0 and higher.</p> <p>To disable expense functionality for all users, set ShowExpense to false.</p>
ShowMileage	true or false	True	<p>This option is available only to Maconomy 2.0 and higher.</p> <p>To disable mileage functionality for all users, set ShowMileage to false.</p>
MaxAttachmentFileSize	Integer	1000	<p>Determines the maximum file size (in KB) of the pictures attached to expense sheets in Delttek Touch.</p>



Before you change any of these settings, Delttek recommends that you make a copy of the DelttekTouch.I file in the MaconomyMScript\Standard folder and place it in the MaconomyMScript\Custom folder. Then, change the file in the Custom folder instead of the original file.



For mor information about customization, see *Deltek Touch for Maconomy Layout Configuration Guide*.

Touch with Azure Setup

The Azure support is available only to Maconomy 2.4 LA or higher.

If Maconomy is set up with Azure and you prefer your Deltek Touch installation to use Azure, you need to complete additional setup.



It is a prerequisite that Azure is set up for Maconomy as described in the [Maconomy documentation](#). Prior to enabling the Azure setup in Deltek Touch, Deltek recommends to test Azure in Workspace Client.

For more information, see the [Deltek Maconomy Azure SSO Guide](#).

Register an Azure Native Application for Touch Native Application

To register an application for Touch, complete the following steps:

1. Open the Azure Active Directory (AAD) in the Azure management portal.
2. Click the Applications tab.
3. On the Applications tab, click **Add**, and select the **Add an application my organization is developing** option.
4. In the following two forms, enter **Maconomy Touch** as name, select **Native Client Application** as type, and enter `https://deltekmaconomyclient` for the **REDIRECT URI**.



This will be the AzureRedirectURI.

5. Under the **properties** section of the newly created application, find the read-only field labeled **Client ID** and note its value. This is the **Touch Client ID**.



This will be the AzureNativeClientID.

properties

NAME

touchapp



CLIENT ID

347bbd9d-15da-4564-b58f-1dfcad7e2bf



REDIRECT URIS

https://deltekmaconomyclient



6. Set the permissions on the application to give access to the Maconomy Server Azure application.

permissions to other applications

ce147c97-f4b3-4cb1-918b-fae064df647b	Delegated Permissions: 0	
Maconomy Server	Delegated Permissions: 1	
Windows Azure Active Directory	<input checked="" type="checkbox"/> Access Maconomy Server	

Update the Maconomy Azure Application to Support the Deltek Touch Web Application

The Deltek Touch Web application uses the same Azure application as the Workspace Client. If you follow the Maconomy documentation for Azure, this Azure Web app is called Maconomy.

To make sure that Deltek Touch can use the Maconomy Azure application, add the Touch URL to the Reply URL on the Azure application.

To add the Touch URL to the Reply URL, complete the following steps:

1. Open AAD in the Azure management portal.
2. Click the Applications tab.
3. On the Applications tab, find Maconomy application.

maconomy

[DASHBOARD](#) [USERS](#) [CONFIGURE](#) [OWNERS](#)

properties

NAME

4. Add the relevant Touch URL (for example, https://makapt9vs.ads.deltek.com/21_Mrp101Rest/maconomyshared/backend/oauth2tokenreturn.php) to the Reply URL.

REPLY URL	<div> https://10.4.9.124:4433/cgi-bin/Maconomy/MaconomyPortal.x </div> <div> https://10.4.9.124:4433/cgi-bin/Maconomy/MaconomyPortal.x </div> <div> https://makapt27vs.ads.deltek.com/DeltekTouch/2100/MRP101 </div> <div> https://makapt9vs.ads.deltek.com/21_Mrp101Rest/maconomyshared/backend/oauth2tokenreturn.php </div> <div> https://10.4.8.243:4433/cgi-bin/Maconomy/MaconomyPortal.r </div> <div> https://10.4.8.243:4433/cgi-bin/Maconomy/MaconomyPortal.r </div> <div> https://makQEttest.onmicrosoft.com/maconomy </div> <div> https://makapt9vs.ads.deltek.com </div> <div> https://login.microsoftonline.com/common/oauth2/nativeclient </div> <div> http://localhost:8888/deltektouch1.3/maconomy/time/macono </div>
-----------	---

Turn On Azure Login in the Web Service

The following changes are needed in the **custom DeltekTouch.I** file:

1. Set `UseExternalCredentials`: true. By default, it is set to false.
2. Set `ExternalCredentialsType`: #K"Azure". By default, it is empty
3. Set `AzureNativeClientID` to the Touch Client ID (step 5 of the **Register an Azure Native Application for Touch Native Application** procedure). By default, it is empty.

Example:

```
AzureNativeClientID:#K"347bbd9d-15da-4564-b58f-1dfcad7e2bf"
```

4. Set `AzureRedirectURI` to the REDIRECT URI (step 4 of the **Register an Azure Native Application for Touch Native Application** procedure). By default, it is empty.

Example:

```
AzureRedirectURI:#K"https://deltekmaconomyclient"
```

Touch with Single Sign-On Setup

If Maconomy is set up with Kerberos SSO and you prefer Touch to use SSO, you need to perform the following tasks:



When Touch is using SSO, Unicode characters are not allowed in the domain user name and/or password..

1. In `DeltekTouch.I`, set **useExternalCredentials=true**. By default, it is set to **false**.
2. Copy `KerberosSSOClientLib` folder and `KerberosSSOClient.jar` file from the related TPU to `cgi-bin/Maconomy`.
3. Make sure that Java is installed on the Maconomy Web server, since during Single Sign-On, Deltek Touch executes Java code on the Maconomy Web server. This Java should be the same as the Java embedded in your Maconomy product (delivered as part of TPU); otherwise, there is a risk that newer Java versions are not certified for the Kerberos SSO used by Maconomy.
4. Make sure there is only one Java version installed on the machine
5. Add the Java path to environment variables on the machine.
6. In some cases you need to run some applications as administrator (for example, `MaconomyMscript.exe`, Run as Administrator).
7. Deltek Touch uses the Kerberos Java client for getting the Kerberos ticket while other Maconomy clients (Workspace Client, Java Client, Portal) are using the native API for the same purpose. Therefore, even if SSO works properly in other Maconomy clients (Workspace Client, Java Client, Portal), there is no guaranty that it works in Deltek Touch as well. You may need additional steps for making the Touch SSO work.

One possible difference is that, for Deltek Touch, the TSG request sent by the Maconomy Web server to the domain controller uses UDP instead of TCP. Since UDP is not as reliable as TCP, in case of bigger requests, this could lead to segmented packages, which may be dropped by the network. This leads to a situation when the request just hangs, the domain controller does not send back a response to the Maconomy Web server, and thereby causing an unsuccessful domain (SSO) login in Deltek Touch. If this is your case, you need to force the usage of TCP by creating a custom Kerberos

configuration file (krb5.local.conf), as a copy of the standard Kerberos configuration file (krb5.conf) with one additional line: **udp_preference_limit = 1**.



For example:

- **C:\maconomy\webserver\w_15_0.sp2\MaconomyMScript\Custom\DeltekTouch.I**
(useExternalCredentials=true)
- Copy KerberosSSOClientLib folder and KerberosSSOClient.jar from
C:\maconomy\tpu.NTx86.15_0.p2b6.dir\bin to
C:\maconomy\webserver\w_15_0.sp2\cgi-bin\Maconomy
- Install Java 7
- Add **C:\Program Files (x86)\Java\jre6\bin** to Path in Environment Variables

Debug Touch Single Sing-On

If you need to debug Touch SSO, complete the following steps:

1. Make sure that SSO works in Java client and Portal.
2. Check the Web server error logs (for example, C:\Program Files (x86)\Apache Software Foundation\Apache2.2\logs\error.txt).

Appendix A: Localization

Starting with Touch 1.2.3, you can translate Deltek Touch for Maconomy to other languages. Everything in Deltek Touch for Maconomy is translated using the dictionaries in Maconomy core product.

By default, Deltek Touch for Maconomy 2.1, 2.2, and 2.3 come in the following languages:

- English
- Danish
- Swedish
- Norwegian
- Dutch
- French
- German
- Italian
- Spanish
- Portuguese

Deltek Touch for Maconomy X1 and 2.0 come in the following languages:

- English
- Danish
- Swedish
- Norwegian
- Dutch
- French
- German
- Spanish

When you install FPU 1.2.3 or higher, you get the translations automatically through the standard dictionaries installed on the Maconomy server. After this, you need to set “(Re)install CGI programs” to “Install unconditionally”, in MConfig if you want to apply the dictionaries to the Web server, and thereby making the translations available in Deltek Touch for Maconomy.

If you need Deltek Touch for Maconomy in a different language, you need to create your own dictionary and apply it.



For example, you would like to translate Deltek Touch for Maconomy to French. Assuming that you already have a French dictionary, you need to add the Touch translations to it:

1. In **Translations.<shortname>.DK** search for “{Touch}”. This actions gives you the list of terms to be translated.
2. You must translate all strings postfixed with {Touch} and add the translations to your French dictionary. For example,
Yes{Touch} Oui

Appendix B: Touch Server URL in Email

Logging on for the first time no longer requires users to enter the complete URL of the Touch Server. You now send them an email message containing a link that either directs them to the appropriate app store (if Deltek Touch is not yet installed) or populates the **Touch Server URL** field with their company URL.

ProductApplication.php

The Touch Server has been updated with the ProductApplication.php file that performs the linking and passes the **Touch Server URL** value to the application or redirects you to the appropriate app store.

Link for Customers

The link that you send to users is a hyperlink. When users click the hyperlink, the following scenarios occur:

1. If Deltek Touch is not installed, it takes them to the appropriate app store to download the application.
 - a) Users then download the application from the app store.
 - b) They click the link again (and proceed to step 2).
2. If the application is installed, it populates the **Touch Server URL** field with their company URL.
3. They tap the **Connect** button to connect to the Touch Server.

How to Create the Link to Email Users

Each application may have specific steps required to create a hyperlink. This section describes the steps that apply to Microsoft Outlook. For other applications, see the documentation on creating a hyperlink.

1. Use the following format for the hyperlink:
https://<yourdomain>/deltektouch/maconomy/time/maconomyshared/backend/maconomytimeurl.php

2. Replace **<yourdomain>** with the company's domain information. The domain must be externally accessible to devices on the Internet. The following part of the hyperlink, however, is fixed:

deltektouch/maconomy/time/maconomyshared/backend/maconomytimeurl.php

If Deltek Touch is being hosted in a multitenant environment, you need to append a set of strings to the link you will be sending to users. Typically, it is the Web site directory name (for example, deltektouch). For example, in the URL below, you should append "deltektouch":

https://<yourdomain>/deltektouch/maconomy/time/maconomyshared/backend/maconomytimeurl.php?custcd=deltektouch

3. Create the instructional text in the email message where you will embed the link.

4. Highlight the word “here,” right-click, and select **Hyperlink** from the menu (alternatively, click the Insert tab, and click the **Hyperlink** button).
5. Paste the hyperlink into the **Address** field of the dialog box, and click **OK**.

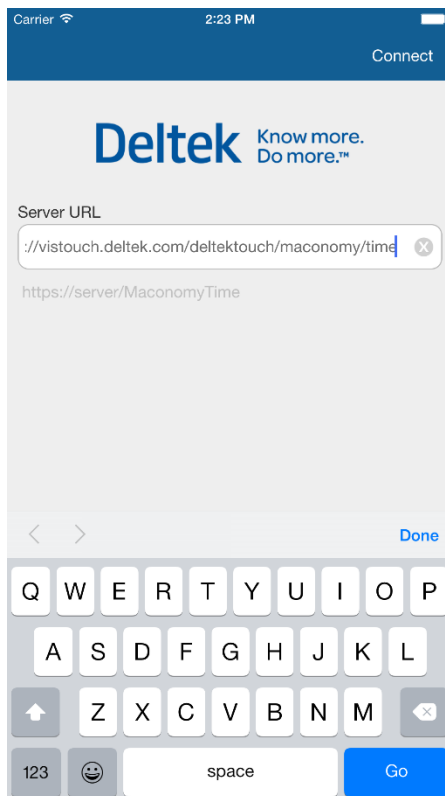


For Example:

Click [here](#) to initialize your Touch application with the proper URL to access the Touch Server. If you have not installed the application, clicking the link will take you to the appropriate app store to install the application. Once you've installed the application, clicking the link will properly initialize the URL in your application. Should you not be able to click the link, you can copy and paste the following into your default device browser:

<https://yourdomain.com/deltektouch/maconomy/time/maconomyshared/backend/maconomytimeurl.php>

When users receive the email, click the link , and the application is installed, the following screen displays.



Appendix C: Logging Capability

If you want to gather some statistics about your Deltek Touch users and their usage pattern, enable logging on the Maconomy MScript based Web service.



Enabling logging always cause some performance overhead. If you use, however, the options recommended in this section, this overhead becomes unnoticeable.

How to Enable Logging?

To turn on logging, you need to change the setup file for the MaconomyTouch CGI program.

To change the change the setup file, complete the following steps:

1. In the Maconomy Web server, locate the **/cgi-bin/Maconomy** folder
2. Find the CGI program used by Deltek Touch by checking the URL in the configuration.ini file on the Touch Server. In most cases, the CGI program should be **MaconomyTouch.*.exe**.
3. Find the setup file for the CGI program. If the CGI program is **MaconomyTouch.*.exe**, then the setup file is **MaconomyTouch.*.l**.
4. Add the Log parameter.

Where is the Log File?

By default, the log file can be found in the same place as your CGI program and its setup file, which is in the **/cgi-bin/Maconomy** folder.

The file name is the same as the CGI program name: **MaconomyTouch.*.log**. You can open the log file in any text editor.

How to Determine Who are Using Deltek Touch?

If you want to know who are using Deltek Touch and how often they use it, the recommended setting is as follows:

Log = login

As a result, the log file includes all Deltek Touch logins and the corresponding user names.

Example

```
[2015-11-25 11:48:28.171] [PID = 00018576] )
[/Standard/DeltekTouchWS.ms] [I286yaavF1] [3135] [192.168.43.102]
[Administrator] maconomy::login("Administrator") (7 elapsed msec.

[2015-11-25 11:49:15.749] [PID = 00002744] )
[/Standard/DeltekTouchWS.ms] [MNW33zWfr4] [32138] [192.168.43.102]
[Administrator] maconomy::login("Administrator") (10 elapsed msec.

[2015-11-25 11:54:59.823] [PID = 00018476] )
[/Standard/DeltekTouchWS.ms] [JDN9ASvjG2] [20598] [192.168.43.102]
[Anders Hansen] maconomy::login("Anders Hansen") (19 elapsed msec.
```

If you want the total number or none-unique logins, count the lines. You could conduct more elaborated analysis, by example, in Excel.

Appendix D: If You Need Assistance

If you need assistance installing, implementing, or using Deltek Touch for Maconomy, Deltek makes a wealth of information and expertise readily available to you.

Customer Services

For over 30 years, Deltek has maintained close relationships with client firms, helping with their problems, listening to their needs, and getting to know their individual business environments. A full range of customer services has grown out of this close contact, including the following:

- Extensive self-support options through the Customer Care Connect Web portal.
- Phone and email support from Customer Care analysts
- Technical services
- Consulting services
- Custom programming
- Classroom, on-site, and Web-based training



Find out more about these and other services from the Customer Care Connect site.

Customer Care Connect Site

The Deltek Customer Care Connect site is a support Web site for Deltek customers who purchase an Ongoing Support Plan (OSP).

The following are some of the many options that the Customer Care Connect site provides:

- Search for product documentation, such as release notes, install guides, technical information, online help topics, and white papers
- Ask questions, exchange ideas, and share knowledge with other Deltek customers through the Deltek Connect Customer Forums
- Access Cloud specific documents and forums
- Download the latest versions of your Deltek products
- Search Deltek's knowledge base
- Submit a support case and check on its progress
- Transfer requested files to a Customer Care analyst
- Subscribe to Deltek communications about your products and services
- Receive alerts of new Deltek releases and hot fixes
- Use Quick Chat to submit a question to a Customer Care analyst online



For more information regarding Deltek Customer Care Connect, refer to the online help available from the Web site.

Access Customer Care Connect

To access the Customer Care Connect site, complete the following steps:

1. Go to <http://support.deltek.com>.
2. Enter your Customer Care Connect **Username** and **Password**.
3. Click **Log In**.



If you do not have a username and password for the Customer Care Connect site, contact your firm's Deltek Touch for Maconomy Administrator.


If you forget your username or password, you can click the **Account Assistance** button on the login screen for help.

Additional Documentation

The following table lists the additional Deltek documentation available for this release. Except where noted, all the user guides and quick reference guides listed in this table are available for download from the Deltek Customer Care Connect site.

Document Name	Description
Deltek Touch for Maconomy User Guide	This document contains detailed information and instructions on how to use various features of the application.
Deltek Touch for Maconomy Release Notes	This document contains a summary of the technical considerations, major features, and known issues of the application.
Deltek Touch for Maconomy Upgrade Guide	<i>This document is only intended for Technical Consultants.</i> It describes necessary steps to upgrade to the latest Touch system.
Deltek FPU Release Notes for Maconomy Touch	<i>These documents are only intended for Technical Consultants.</i> The document names vary depending on the supported Maconomy version. Each document contains a summary of the pre-installation information, enhancements, and API changes to Touch for each supported Maconomy version. It is part of the Deltek Touch for Maconomy 1.4 product information suite and should only be distributed internally within the Maconomy organization and to partners.
Deltek Touch for Maconomy Layout Customization Guide	<i>This document is only intended for Technical Consultants.</i> It describes tasks necessary for the customization of layouts of the Deltek Touch for Maconomy application.
Deltek Touch for Maconomy MScript and	This document describes the differences between MScript and Representational State

Document Name	Description
REST Web Services Comparison Guide	Transfer (REST) Web services to help technical consultants prepare for implementing Deltek Touch for new users or migrate their current Touch installation to REST.



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