Deltek

Deltek Touch for Maconomy®

Touch 3.3 MScript and REST Web Services Comparison Guide

September 2019

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Overview

This document describes the differences between MScript and Representational State Transfer (REST) Web services to help technical consultants prepare for implementing Deltek Touch for new users or migrate their current Touch installation to REST.

The table below summarizes the contents of this document:

Topic	MScript	REST
Timesheet Status	Always accurate Values: ▪ New ▪ In Progress ▪ Due ▪ Submitted ▪ Approved ▪ Rejected ▪ Transferred	Not always accurate when using approval hierarchies on timesheet header Values: ▪ Open ▪ Due ▪ Submitted ▪ Approved ▪ Rejected ▪ Fully Approved (this value always reflects the same value as in the Workspace client)
Editing Submitted Timesheet	Displays a warning before reopening a timesheet	Displays a warning but reopens the timesheet anyhow
Daily Submit Modes	Displays weekly and daily timesheets and lines	Displays exclusively daily timesheets and lines
Daily Timesheets	Looks the same as weekly timesheets except for Submit, which submits the daily (not the weekly) timesheet	Displays only the given day and the daily timesheet lines corresponding to it, and all actions (submit, reopen, add, delete) are on daily timesheets
Copy Timesheet Line	Supported	Not supported
Explicit Timesheet Creation	Not supported	Supported
Non-Working Days	Supported	Supported (but in daily mode you cannot see if it is a non-working day in timesheets)

Topic	MScript	REST
Timesheet Line, Task, and Activity	Layout controls task and activity, but there is a special functionality in the client to hide the task if the job does not have a task list	Layout controls task and activity exclusively
Weeks	Displays a list of timesheet periods for a time interval of seven months (CurrentDate – three months; CurrentDate + four months). This period is not dynamic.	Displays only three months (CurrentDate – one month; CurrentDate + one month). This period is dynamic. Same as in Workspace client, Timesheet calendar
Summary	Displays week number only if **Use Week Numbers** setting is set to **ON**	Always displays week number
Expense/Mileage Sheets	Allows swipe to delete an expense or mileage sheet Allows to change the sorting in the list	Does not allow swipe to delete an expense or mileage sheet Does not allow sorting in the list
Find Job – Expense/Mileage	Favorites tab includes all favorites that are accessible for a user even if they are not allowed in expense/mileage registrations	Favorites tab includes only favorites that are accessible for the user and can be used in expense and mileage registration
Number of Decimals	Includes the first 9 significant decimals in the real type fields on the **Expense Sheet Line** and **Mileage Sheet Line** screens For example, Quantity = 555.123456789, Exchange Rate = 111.123456789	Includes all significant decimals in all real type fields For example, Quantity = 555.1234567898765, Exchange Rate = 111.1234567899
Server-Side Settings	Supports all existing settings	Supports existing settings except for the following: ▪ searchtext ▪ Debug ▪ searchMaxRowCount ▪ ExternalCredentialsCharset ▪ ShowMissingTimesheetsDue ▪ MandatoryRejectionRemark ▪ CustomSubmitTimeSheetAction ▪ ShowOnlyPOLinesToApprove

Topic	MScript	REST
		▪ ShowOnlyInvoiceAllocationLinesToApprove ▪ NotificationRecalculationInterval
Client-Side Settings	Supports existing settings except **Show Purchase Orders**, **Show Absence Requests**, and **Show Allowance Requests**	Supports existing settings except for **Show Approvals**
Aggregated Error Messages	Supported in Submit Time/Expense/Mileage Sheets	Not supported
Warning Messages	Limited support	Supported
Timeout	Lifetime timeout of one hour by default	Lifetime timeout of one hour and inactivity timeout of 20 minutes by default
Enhanced Search Functionality	Not supported	Supported
Ability to Record Absence by Hour in REST	Not supported	Supported

Note: Deltek Touch 3.0 does yet support the Approvals functionality in REST. In this version, the Approvals functionality works via MScript.

Time

Timesheet Status

MScript	REST

▪ Possible timesheet status values: New, In Progress, Due, Submitted, Approved, Rejected, Transferred
▪ Approved status means the timesheet header is approved
▪ Rejected status means the timesheet header is rejected
	▪ Possible timesheet status values: Open, Due, Submitted, Approved, Rejected, Fully Approved
	▪ When using approval hierarchies on the timesheet header, the timesheet status is not entirely accurate
	  ▪ Approved status not always accurate.
	  ▪ Submitted status not always accurate.
	  ▪ Fully Approved status not always accurate.
	  ▪ Rejected status not always accurate.
	▪ Rejected status means that the timesheet header and/or line is rejected.

Timesheet Screen

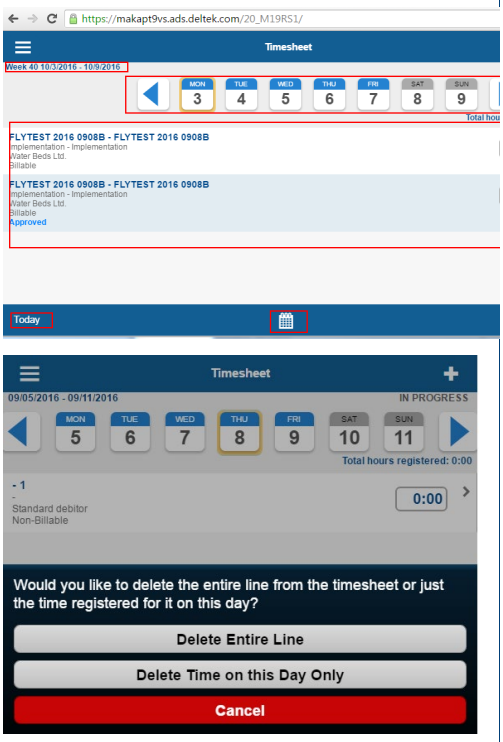
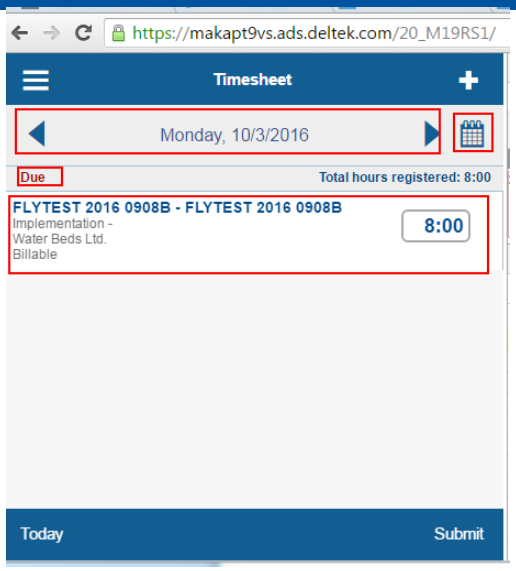
Weekly and Daily Mode

MScript	REST
▪ When adding a new timesheet line to a submitted timesheet, the warning message “The timesheet has been submitted. Continue?” displays if you tap **Done** on the **Add Job** screen. If you cancel the creation of the new line, the timesheet does not reopen. ▪ You cannot change fields (for example, hours) an absence timesheet line if **System Parameter Allow Editing of Absence Timesheet Lines** is disabled.	▪ When adding a new timesheet line to a submitted timesheet, the warning message “The timesheet has been submitted. Continue?” displays if you open the **Add Job** screen. The timesheet reopens even if you cancel the creation of the new line. ▪ You can change fields (for example, hours) an absence timesheet line even if **System Parameter Allow Editing of Absence Timesheet Lines** is disabled. If you try to save your changes, an error message displays, and you are not allowed to save your changes.

Daily Mode

MScript	REST

▪ Displays the entire week in the day carousel, with arrows to get to the previous/next week
▪ Displays part (A/B) and week number in the timesheet period
▪ Calendar icon on the bottom line
▪ Status is on the same line as the timesheet period. Indicates the status for the given day
▪ **Today** switches to the week including today's date
▪ Displays all weekly timesheet lines, not only the lines relevant for the day
For example: In week 3 - 9 October, the same timesheet lines displays on each day (3, 4... 9). If you do not want to register time on the given line, on the given day, simply leave the Hours 0.
▪ Most actions are on weekly timesheet line (except Submit and Reopen):
  ▪ Submit action submits the daily timesheet
  ▪ Reopen action reopens the daily timesheet
  ▪ Copy line action available, creates a copy of the weekly timesheet line
  ▪ Delete action opens another screen and let the user decide whether to delete the entire line (weekly timesheet line) or just reset the hour to 0 on the given line, for the given day
  ▪ Tapping + adds a new weekly timesheet line and, if needed, the corresponding daily timesheet line
	▪ Displays one day at a time, with arrows to get to the previous/next day
	▪ Does not display part (A/B) and week number in the timesheet period
	▪ Displays the current day, and , and under the **Timesheet** header, instead of the calendar carousel
	▪ Status is moved to the line with **Total Hours Registered**. Indicates the status for the given day
	▪ **Today** switches to the day corresponding to today
	▪ Displays only the timesheet lines for the given day, meaning that the lines could be different between the days in the week (timesheet period). Basically, it displays only the lines with hours registered on the given day.
	For example: In week 3 - 9 October, different timesheet lines can be displayed on each day (3, 4... 9). On Monday we could have 1 line, Tuesday no line, Wednesday 3 lines.
	▪ All actions are on the daily timesheet line
	  ▪ Submit action will submit the daily timesheet
	  ▪ Reopen action will reopen the daily timesheet
	  ▪ Copy line action not available
	  ▪ Delete action will delete the daily timesheet line
	  ▪ + will add a new daily timesheet line. If there is no daily timesheet for the given day (see Explicit timesheet creation), before opening the Find Job screen to create a new line, a new daily timesheet will be created behind the scene.

MScript	REST
 ▪ The "Use Daily Timesheets" system parameter must be true regardless if Deltek Touch is in weekly or daily submit mode	 ▪ The "Use Daily Timesheets" system parameter must be true only if Deltek Touch is in Daily submit mode.

Explicit Timesheet Creation

MScript	REST
▪ Does NOT support the new explicit timesheet creation functionality (added in Maconomy 2.3 GA) ▪ Creates weekly and daily timesheets automatically regardless of the settings of the two new system parameters ("Create Timesheets Automatically" and "Create Daily Timesheets for Non-working Days") ▪ Creates a new weekly timesheet behind the scene if you select a period on the **Weeks** screen or by navigating with arrows on the **Timesheet** screen, regardless of the new system parameters	▪ Supports the new explicit timesheet creation functionality (added in Maconomy 2.3 GA) ▪ Creates weekly and daily timesheets if "Create Timesheets Automatically" is enabled and "Create Daily Timesheets for Non-working Days" is enabled ▪ Creates weekly timesheets automatically but not daily timesheets for non-working days if "Create Timesheets Automatically" is enabled and "Create Daily Timesheets for Non-working Days" is disabled ▪ Does not create weekly and daily timesheets automatically if "Create

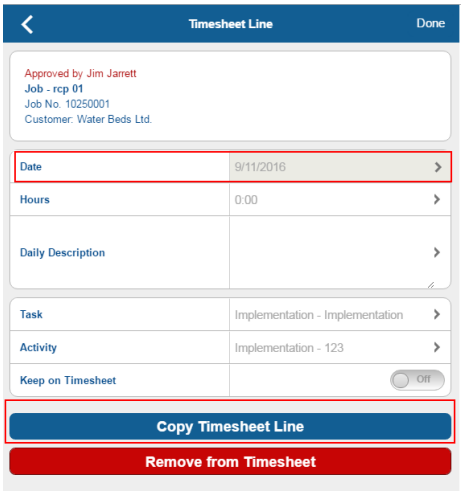
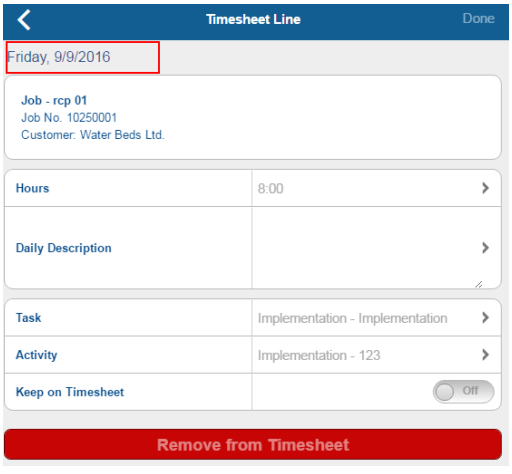
MScript	REST
▪ Creates a new weekly or daily timesheet behind the scene if you select a day on the **Calendar** screen or by navigating with arrows on the **Timesheet** screen, regardless of the new system parameters	Timesheets Automatically" is disabled and regardless of the state of "Create Daily Timesheets for Non-working Days" ▪ This means that if automatic creation of timesheets is disabled, a user may be able to navigate to the **Timesheet** screen in Touch even if the timesheet has not yet been created (that is, there are no lines and the **Submit** button does not display). When clicking “+” in the timesheet, Touch automatically creates the timesheet before opening the **Find Project** screen. ▪ If you select a period on the **Weeks** screen or by navigating with arrows on the **Timesheet** screen and the new system parameters do not allow it, then there are no weekly timesheet created behind the scene. The **Timesheet** screen displays. When clicking “+” in the timesheet, Touch automatically creates the timesheet before opening the **Find Project** screen. ▪ If you select a day on the **Calendar** screen or by navigating with arrows on the **Timesheet** screen and the new system parameters do not allow it, then there are no daily timesheet created behind the scene. The **Timesheet** screen displays but with no timesheet data in it. When clicking “+” in the timesheet, Touch automatically creates the timesheet before opening the **Find Project** screen.

Non-Working Days

MScript	REST
▪ Weekly submit mode: The only change is that in the day carousel, non-working days have a grey header ▪ Daily submit mode: ▪ Calendar: non-working days are color-coded as suggested above, except if the status is Approved,	▪ Weekly submit mode: The only change is that in the day carousel, non-working days have a grey header ▪ Daily submit mode: ▪ Calendar: non-working days are color-coded as suggested above, except if the status is Approved,

MScript	REST
Submitted, or Transferred (in which case they keep the existing color coding) ▪ Timesheet: in the day carousel, non-working days have a grey header ▪ Timesheet: for non-working days, the Due status does not display (but the other statuses are retained)	Submitted, or Fully Approved or Rejected (in which case they keep the existing color coding) ▪ Timesheet: there is no indication if it is a non-working day. ▪ Timesheet: for non-working days, the Due and Open statuses do not display (but the other statuses are retained)

Timesheet Line Screen

MScript	REST
▪ You can copy a timesheet line. ▪ Date is one of the fields in the layout ▪ Task and activity is controlled by layout and some special functionality (if the job does not have a task list, the Task will be hidden). ▪ Does note display the **Purchase Order Number** and **Purchase Order Line** fields 	▪ You cannot copy a timesheet line. ▪ Date is moved up as first thing on the screen ▪ Task and Activity are entirely controlled by the layout. ▪ Open statuses do not display (but the other statuses are retained). ▪ For subcontractors, the **Purchase Order Number** and **Purchase Order Line** fields are available. 

Copy Timesheet Line

MScript	REST
You can copy a timesheet line on the **Timesheet** and **Timesheet Line** screens.	You cannot copy a timesheet line.

Weeks

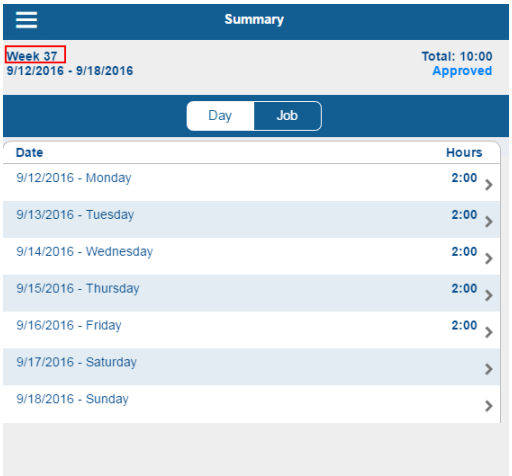
MScript	REST
▪ This screen displays a list of timesheet periods, for a time interval of 7 months (CurrentDate – 3 months; CurrentDate + 4 months). This period is not dynamic. It is possible to change the interval, by a heavy-weight MScript customization. ▪ A timesheet period is typically one week, except when using split weeks, when it could include part A and part B corresponding to a week which includes dates in 2 months. ▪ Possible timesheet status values: New, In Progress, Due, Submitted, Approved, Rejected, Transferred ▪ It is possible to add more information (for example, hours)	▪ Displays only 3 months (CurrentDate – 1 month; CurrentDate + 1 month). This period is dynamic. This screen displays a list of timesheet periods, for a time interval of 3 months (SelectedDate – 1 months; SelectedDate + 1 months). It is NOT possible to change the interval programmatically, but the 3 month period is based on the currently selected (active) timesheet period. For example: Today, 2 February 2016, I launch Touch and open Weeks => ▪ The active timesheet period will be the one for the current week (1 – 7 February 2016). ▪ The periods shown in Weeks will cover January, February and March 2016 Then I tap another period (25 – 31 January 2016) in the Weeks screen => ▪ The active timesheet period will be the one I have selected (25 – 31 January 2016) ▪ The periods shown in Weeks will cover December 2015, January and February 2016 This is how other Maconomy clients (for example, Workspace Client, Java client) work, so we will align to the same functionality.

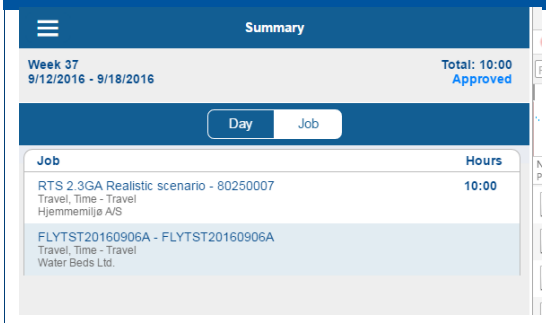
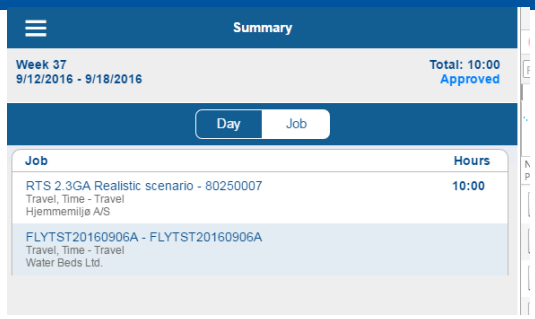
MScript	REST
	▪ Although it is not possible for customers to extend the period, as such (for example, 7 months instead of 3), the period content is dynamic, so users can get to earlier/later timesheets, by navigating in Weeks. ▪ Possible timesheet status values: Open, Due, Submitted, Approved, Rejected, Fully Approved. ▪ You cannot add more information.

Calendar

MScript	REST
Not configurable	Partially configurable (only the status) using a layout

Summary

MScript	REST
▪ Week Number shown only if the **Use Week Numbers** setting in ON ▪ Header area (including week, total, status) is not configurable (protected region in the layout) ▪ Jobs tab: Lists jobs in the same order as they display on timesheet lines 	▪ Week number always displays ▪ Header area (including week, total, status) is now configurable, via the layout. ▪ Jobs tab: Lists jobs in random order 

MScript	REST
	

Expense and Mileage Expense Sheets Screens

MScript	REST
▪ Allows swipe to delete an expense sheet in the list ▪ Allows changing of the order of the expense sheets ▪ Allows changing the conditions (where clause) used to retrieve the data ▪ Does not display the **Purchase Order Number** and **Purchase Order Line** fields for subcontractors ▪ Does not support expense justification	▪ Does not allow swipe to delete an expense sheet in the list ▪ Does not allow changing of the order of the expense sheets. ▪ Does not allow changing the conditions (where clause) used to retrieve the data ▪ Displays the **Purchase Order Number** and **Purchase Order Line** fields for subcontractors ▪ Allows you to enter expense justification (if a selected task requires a justification)

Expense Sheet screen

Find Job

MScript	REST
The Favorites tab includes all favorites accessible for the user even if they are not allowed in expense/mileage registrations.	The Favorites tab includes only favorites accessible for the user and that can be used in expense and mileage registrations.

Document Handling (Uploading o Downloading of Documents)

MScript	REST
MScript is used for document handling in MScript Touch, respectively in REST Touch on Windows devices.	REST is used for document handling on expense sheets,only on iOS and Android devices.

Number of Decimals

MScript	REST
Real type fields on the **Expense Sheet Line** and **Mileage Sheet Line** screens include the first 9 significant decimals decimals (for example, Quantity = 555.123456789, Exchange Rate = 111.123456789). You cannot enter more than two decimals in Touch.	All real type fields include all significant decimals (for example, Quantity = 555.1234567898765, Exchange Rate = 111.1234567899). You cannot enter more than two decimals in Touch.

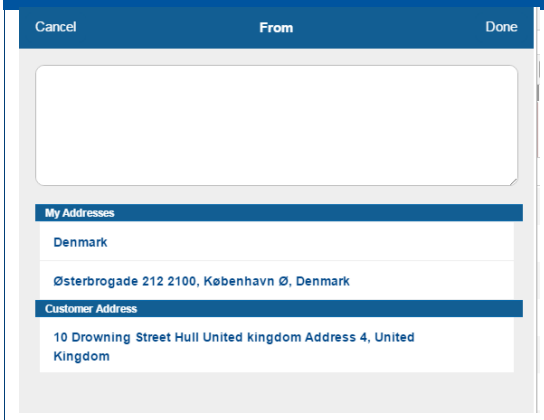
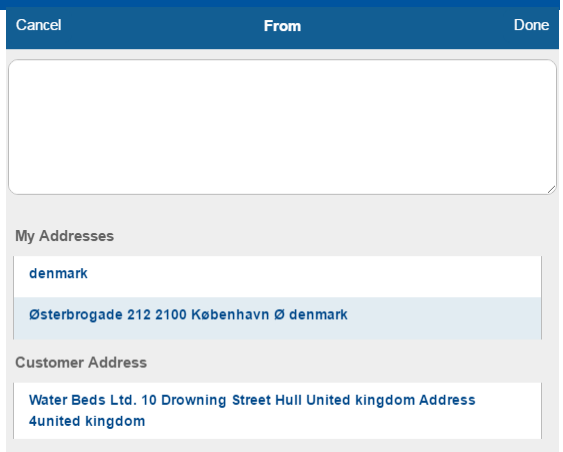
Mileage Sheets Screen

MScript	REST
Allows swipe to delete an expense sheet in the list	Does not allow swipe to delete an expense sheet in the list

Mileage From/ To Screens

MScript	REST

▪ By default includes: My Addresses, Customer Address and Recently Used Addresses.
▪ Controlled by MScript code
▪ This allows you to control both layout and data, by changing the corresponding .ms and .I files
  ▪ Can change addresses
  ▪ If you do not want one of the groups (for example, Customer Address), remove the data (DeltekTouch.1.ms).
  ▪ If you want to add another group, add the data (DeltekTouch.1.ms).
	▪ By default includes: My Addresses, Customer Address and Recently Used Addresses.
	▪ Controlled by layout.
	▪ Easier to compose addresses
	▪ If you don’t want one of the groups (for example, Customer Address) , you can simply remove it from the layout
	▪ Not possible to control the data
	▪ Not possible to add additional group

MScript	REST
	

Password Management

MScript	REST
▪ Does not allow you to change your password	▪ Displays the **Change Password**, **Forgot My Password**, and **Unblock User** options on the login screen to assist you if your password has expired, been forgotten, or been blocked.

Rejected Expense/Mileage Sheet

MScript	REST
▪ Does not display rejected expense and mileage sheets ▪ Does not have the **Show Rejections** toggle switch on the **Settings** screen ▪ Displays the **Approvals** menu on the sliding menu if the **Show Approval** toggle switch is set to **ON** on the **Settings** screen	▪ Displays the **Rejections** sub-menu (with badge that corresponds to the number of available rejected expense or mileage sheets) under the **Todos** menu ▪ Displays the **Show Rejections** toggle switch on the **Settings** screen ▪ Displays the **Todos** menu on the sliding menu if any of the **Show Rejections** and **Show Approvals** toggle switches are set to **ON**

Settings

Server Settings

Server Setting	MScript	REST	Same Functionality
Submit	x	x	Yes
searchtext	x		Not supported in REST
Debug	x		Not supported in REST
IncrementalMinutes	x	x	Yes
searchMaxRowCount	x	x	Yes
UseExternalCredentials	x	x	Yes
ExternalCredentialsCharset	x		Not supported in REST
ShowMissingTimesheetsDue	x		Not supported in REST
WeekStart	x	x	Yes
MandatoryRejectionRemark	x		Not supported in REST
CustomSubmitTimeSheetAction	x		Not supported in REST
ShowZeroHourJobsInSummary	x	x	Yes
AllowNegativeHoursInTimeSheets	x	x	Yes
ShowOnlyPOLinesToApprove	x		Not supported in REST
ShowOnlyInvoiceAllocationLinesToApprove	x		Not supported in REST
NotificationRecalculationInterval	x		Not supported in REST
CopyRemarkFromTimeSheetLineToFavorite	x	x	Yes

Server Setting	MScript	REST	Same Functionality
ExpenseAttachmentType	x	x	Yes
ShowJobsWithEmployeeControl	x	x	Yes
ShowExpense	x	x	Yes
ShowMileage	x	x	Yes
ExternalCredentialsType	x	x	Yes
AzureNativeClientID	x	x	Yes
AzureRedirectURI	x	x	Yes
IncrementalDays		x	Not supported in MScript
AllowNegativeDaysInTimeSheets		x	Not supported in MScript
MaxAttachmentFileSize	x	x	Yes
ShowOnlyFavoritesInJobSearch	x	x	Yes
ShowDefaultExpenseReceiptName	x	x	Yes
AllowMaconomyLoginWhenUsingExternalCredentials			Yes, not supported in both

User Settings

User Setting	MScript	REST	Same functionality
Username	x	x	Yes
Open In	x	x	Yes
Usage Tracking	x	x	Yes
Use Week Numbers	x	x	No (see next section)
Keep on timesheet as default	x	x	Yes
Registration unit	x	x	Yes

User Setting	MScript	REST	Same functionality
Show Expense	x	x	Yes
Show Mileage	x	x	Yes
Show Approvals	x		Not supported in REST
Show Purchase Orders		x	Not supported in MScript
Show Absence Requests		x	Not supported in MScript
Show Allowance Requests		x	Not supported in MScript
Submit mode	x	x	Yes
Privacy Policy	x	x	Yes
About	x	x	Yes

Note: The **Open** In setting is available for both MScript and REST, but the options vary, depending on the Maconomy version:

- 2.2 and 2.1: Timesheet, Items for Approval, Expense Sheet, Quick Capture, Mileage Sheet, and Summary
- 2.0: Timesheet, Expense Sheet, Quick Capture, Mileage Sheet, and Summary
- X1 : Timesheet and Summary

Use Week Numbers

MScript	REST
▪ The **Use Week Numbers** setting is applied on the **Weeks**, **Timesheet** (both weekly and daily) and **Summary** (both weekly and daily) screens ▪ This setting is available on the **Settings** screen, in weekly and daily mode ▪ If it is set to ON, the week number and part display.	▪ The **Use Week Numbers** setting is applied on the **Weeks** and **Timesheet** (only weekly) ▪ The **Use Week Numbers** setting is not applied on the **Summary** (both weekly and daily) screen ▪ This setting is available on the **Settings** screen, in daily mode

MScript	REST
	▪ If it is set to on, the week number and part is display.

Technical

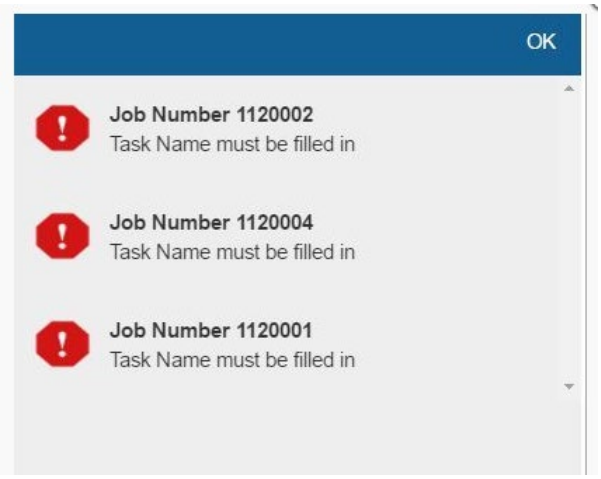
Error Handling

Aggregated Messages

The MScript Web service was aggregating error messages in some cases. To improve the user experience, all frequent error messages for an action were grouped by the Web service and returned in one response to the client. The user saw all error messages on one screen.

This functionality is no longer available in REST. The user needs to deal with one error message at a time, and once this is solved, he/she can move on to the next error message.

Affected Areas: Submitting timesheets or expense/mileage sheets



MScript	REST
Aggregate messages supported for submitting time/expense/mileage sheets .	Aggregate messages not supported.

Message Types

In Maconomy (application code), there are several ways of triggering a message:

- **Check_Fatal** - This is a severe error with a very technical error message. Maconomy only uses in places where an error is not expected to happen.
- **CheckError** – This is a legitimate application error message. An understandable message should be displayed to the user and the execution of the action should be halted. In a Java client, an error, the message, and OK button display. For example: if you submit a timesheet with lines without task/activity, then you get this error message.

- **Check_Warning** - In this case, an error message displays, letting users to decide whether to continue. In a Java client, a warning, the message, and OK and Cancel buttons display. If the user selects OK, the execution of the action continues. Otherwise, it stops. For example, when editing a submitted timesheet, you get the following warning message: "The timesheet has been submitted. Do you want to continue?". If the user selects OK, the timesheet reopens. If the user selects Cancel, the timesheet remains submitted)
- **Check_Notify** - In this case, an informational message displays to the user and the execution of the action continues. In a Java client, a notification, the message, and OK button display. For example, the new explicit timesheet creation: if the period for which the user wants to create the timesheet is not in the open posting period, a notification displays (and no timesheet is created).

MScript	REST
▪ Supports error messages generically. For error messages (Check_Fatal and CheckError), an error message box with the **OK** button display. After the user taps **OK**, the execution of the action does not continue. ▪ Limited support for warning messages (Check_Warning). A message box with the **OK** and **Cancel** buttons display. If the user taps **OK**, the execution of the action continues. Otherwise, it is stopped. ▪ A standard Maconomy warning message displays, such as “The timesheet has been submitted. Do you want to continue?”, when saving timesheet or expense/mileage sheet lines. ▪ A custom warning message for submitting timesheets can be displayed. ▪ Does not support notifications (Check_Notify).	▪ Supports all message types (error, warning, notification) generically ▪ For error messages (Check_Fatal and CheckError): an error message box with the **OK** button display. After the user taps **OK**, the execution of the action does not continue. ▪ For warning messages (Check_Warning), a message box with OK and Cancel buttons display. If the user taps **OK**, the execution of the action should continue. Otherwise, it is stopped. ▪ If an action would trigger several warnings, only the first warning displays to the user. The subsequent warnings are automatically answered with **OK** if the user answered the first warning with **OK**. ▪ For notifications (Check_Notify), a message box with the **OK** button display. After the user taps **OK**, the execution of the action continues.

Timeout

MScript	REST

▪ One timeout is applied:
▪ MScript timeout - This is for lifetime. By default, it is set to one hour.
▪ The MScript timeout is set in the configuration file of the MaconomyTouch CGI program (MaconomyTouch.xxx.l). It
	▪ Two different timeouts are applied:
	  ▪ MScript timeout - This is for lifetime. By default, it is set to one hour.
	  ▪ REST timeout - This is for inactivity. By default, it is set to 20 minutes.
	▪ The REST timeout is applied to all Maconomy clients using the Coupling

MScript	REST
has impact only on Touch, no other Maconomy clients. ▪ If the end user is trying to access Maconomy via MScript (for example, automatic refresh of the rejected timesheets) one hour after login, Touch times out. ▪ If Touch times out, the user is logged out of the Web service (MScript) and is redirected to the PIN screen.	Service (= Workspace Client, Touch, iAccess, PeoplePlanner, TrafficLive). You cannot have a different REST timeout, for example, for Touch and Workspace Client. ▪ If the end user is inactive (= does not access Maconomy via REST) for 20 min, Touch times out. ▪ If the end user is trying to access Maconomy via MScript (for example, automatic refresh of the rejected timesheets) one hour after login, Touch times out. ▪ If Touch times out, the user is logged out of the Web services (REST and MScript) and is redirected to the PIN screen.

Extensibility/Configuration

MScript	REST
▪ Limited support for confirmation messages ▪ Some lookup or search screens are configurable using DeltekTouch.I. You can control the query used to perform the search. There is a limited configuration on which fields should display on the search screen. ▪ You can display a popup field as a search screen. By default, popup fields are display in a dropdown list on the same screen. ▪ Some users prefer to see the popup values on a separate search screen, instead of a dropdown. For example: Swedish customers (iStone and Tengbom) already use such a light-weight customization, which allows them to see a popup field (FinanceVATCode), on a search screen. ▪ Advanced lookups (Find Job, Mileage From/To) are controlled by MScript code.	▪ Generic support for confirmation messages ▪ Lookup or search screens (for example, Find Job) are configurable. New layout files have been added for this purpose (Find_JobHeader.I, Find_TaskListLine.I, Find_LocationFromTo.I, Find_JobFavorite_Timesheet.I, Find_JobHeader_Timesheet.I, Find_Activity.I, FindJobHeader_Expense.I). You can change the fields included on the screen, but you cannot change the queries. These queries are driven by the foreign keys in Maconomy. ▪ You cannot display a popup field as a search screen. Popup fields always displays in a dropdown list on the same screen. ▪ Advanced lookups (Find Job, Mileage From/To) are controlled by layouts. ▪ Protiviti customization not supported: State and County, based on option

MScript	REST
▪ Protiviti customization supported: **State** and **County**, based on option lists, and dependency between **State** and **County**. ▪ You can add the **Proposed Quantity** (NumberProposed) field to the timesheet line layout. If you change both **Hours** and **Proposed Quantity**, an error message displays because you are not allowed to change both fields simultaneously. ▪ Layouts: same as in Touch 1.x (for example, TimesheetLayout.I, TimesheetLogEntryLayout.I). ▪ Layouts: for Timesheet and Timesheet line/Log Entry, the MScript layouts for weekly and daily modes are the same (TimesheetLayout.I and TimesheetLogEntryLayout.I). ▪ Query customization is supported. You can customize queries in DeltekTouch.I. This is related to lists like Expense Sheets, Mileage Sheets, as well as search screens (Task List, Find Job)	lists, and dependency between State and County. ▪ You can add the Proposed Quantity (NumberProposed) field to the timesheet line layout. If you change both Hours and Proposed Quantity, however, it sets both fields to the value you entered in Hours. ▪ Layouts: there is a separate set of layouts for REST Touch. The REST layout files are named similarly as the corresponding MScript layout files. The only difference is the file name; it is appended with REST (for example, TimesheetLayoutREST.I, TimesheetLogEntryLayoutREST.I). If you have custom MScript layouts, make sure you apply the same changes to the corresponding REST layouts before you start using the REST Touch. ▪ Layouts: for Timesheet and Timesheet line/Log Entry, we have different REST layouts for weekly and daily modes (TimesheetLayoutREST.I, TimesheetDaysLayoutREST.I TimesheetLogEntryLayoutREST.I and TimesheetLogEntryDailyLayoutREST.I). ▪ Query customization is not supported. This is related to lists like Expense Sheets, Mileage Sheets, as well as search screens (Task List, Find Job)

Other

MScript	REST

▪ Supported Maconomy versions:
  ▪ X1 Service Pack 25 and higher
  ▪ Service Pack 3 and higher
  ▪ Service Pack 2 and higher
  ▪ GA and higher
	▪ Supported Maconomy versions:
	  ▪ 2.2.4 and higher
	  ▪ 2.3 GA and higher
	  ▪ 2.4 LA and higher

MScript	REST
▪ LA and higher ▪ LA and higher ▪ All popup data load upon login. For example: the currency values (such as DKK and USD) together with all other needed popup values are loaded from Maconomy when the user taps **Login**. ▪ No need for proxy server for REST. ▪ Multi-tenancy is supported on IIS. If you use Apache, you need to have different Touch installations (Touch Servers) to create a multi-tenant setup. ▪ Multi-language is supported on IIS. If you use Apache, you need to have different Touch installations (Touch Servers) to create a multi-language setup. ▪ The configuration.ini file contains only MScript info. ▪ Installer: ▪ New installations on Maconomy < 2.2.4 defaults to MScript. ▪ All upgrades default to MScript. ▪ Upon login, the user needs to be authenticated only against the MScript Web service. ▪ Upon logout, the user needs to be logged out only from the MScript Web service. The user is redirected to the authentication screen once the MScript logout is successfully completed.	▪ Popup data loaded on demand. For example: currency values (such as DKK and USD) are loaded from Maconomy, only when the user taps the **Currency** field on the **Expense Sheet** screen. ▪ Proxy server is needed for REST. Typically, this is the same as the Touch Server. ▪ Multi-tenancy is supported only on IIS. No recommendation for how to set up a multi-tenant Touch on both IIS and Apache. ▪ Multi-language is supported only on IIS. No recommendation for how to set up a multi-language Touch on both IIS and Apache. ▪ Configuration.ini contains MScript and REST info. ▪ Installer: ▪ New installations on Maconomy 2.2.4/2.3 GA or higher defaults to REST. ▪ On Maconomy 2.2.4/2.3 GA or higher, upgrades have an option between MScript and REST. ▪ Upon login, the user needs to be authenticated against both Web services (MScript and REST). ▪ Upon logout, the user needs to be logged out from both Web services. For performance reasons, users are redirected to the authentication screen once the MScript logout is successfully completed. Touch does not wait for the REST logout to complete.

Appendix A: 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 Deltek Support Center.
- Phone and email support from Customer Care analysts
- Technical services
- Consulting services
- Custom programming
- Classroom, on-site, and Web-based training

Attention: Find out more about these and other services from the Deltek Support Center.

Deltek Support Center

The Deltek Support Center 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 Deltek Support Center 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 Support Center Community
- 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
- Initiate a Chat to submit a question to a Customer Care analyst online

Attention: For more information regarding Deltek Support Center, refer to the online help available from the Web site.

Access Deltek Support Center

To access the Deltek Support Center:

1. Go to https://deltek.custhelp.com.
2. Enter your Deltek Support Center **Username** and **Password**.
3. Click **Login**.

Note: If you forget your username or password, you can click the **Need Help?** button on the login screen for help.

Additional Documentation

The following table lists the 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 Support Center.

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 Installation Guide	This document provides instructions for the installation and configuration 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 Layout Customization Guide	*This document is only intended for Technical Consultants.* It describes tasks necessary for the customization of layouts of the Deltek Touch for Maconomy application.
Deltek Touch for Maconomy Upgrade Guide	*This document is only intended for Technical Consultants.* It describes necessary steps to upgrade to the latest Touch system.
Deltek Touch for Maconomy MScript and RESTful Web Services Comparison Guide	This document describes the differences between MScript and Representational State Transfer (REST) Web services to help technical consultants prepare for implementing Deltek Touch for new users or migrate their current Touch installation to REST.

About Deltek

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