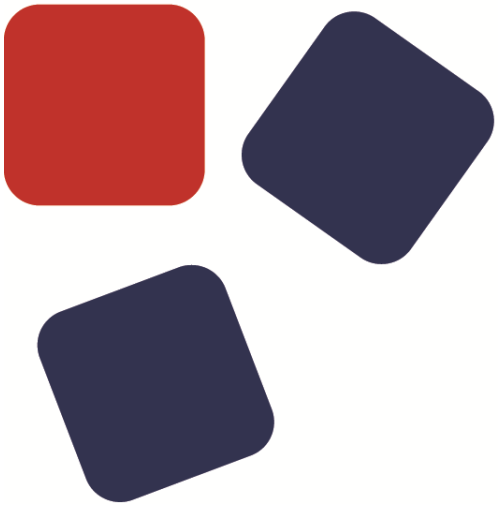
8.4 Mobile Platform Release Notes

WEB RATIO®



RELEASE NOTES

WEBRATIO MOBILE PLATFORM 8.4

Copyright © 2015 WebRatio s.r.l – All rights reserved.

This document is protected by copyright and distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this document may be reproduced in any form by any means without prior written authorization of WebRatio and its licensors, if any.

WebRatio, the WebRatio logo, are trademarks or registered trademarks of WebRatio in Italy and other countries.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

THIS MANUAL IS DESIGNED TO SUPPORT AN INSTRUCTOR-LED TRAINING (ILT) COURSE AND IS INTENDED TO BE USED FOR REFERENCE PURPOSES IN CONJUNCTION WITH THE ILT COURSE. THE MANUAL IS NOT A STANDALONE TRAINING TOOL. USE OF THE MANUAL FOR SELF-STUDY WITHOUT CLASS ATTENDANCE IS NOT RECOMMENDED.

Ce document est protégé par un copyright et distribuéavecdeslicences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucunepartie de ce documentnepeutêtrereproduitesousaucune forme, par quelquemoyenque ce soit, sans l'autorisationpréalable et écrite de WebRatiosrl.

LA DOCUMENTATION EST FOURNIE "EN L'ETAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.

CE MANUEL DE RÉFÉRENCE DOIT ÊTRE UTILISÉ DANS LE CADRE D'UN COURS DE FORMATION DIRIGÉ PAR UN INSTRUCTEUR (ILT).IL NE S'AGIT PAS D'UN OUTIL DE FORMATION INDÉPENDANT. NOUS VOUS DÉCONSEILLONS DE L'UTILISER DANS LE CADRE D'UNE AUTO-FORMATION.

WebRatio srl

P.le Cadorna, 10 – 20123 Milano ITALY

Tel. +39 02 3671 4280 – Fax +39 02 3671 4291

www.webratio.com – contact@webratio.com –webratio@pec.webratio.com

TABLE OF CONTENTS

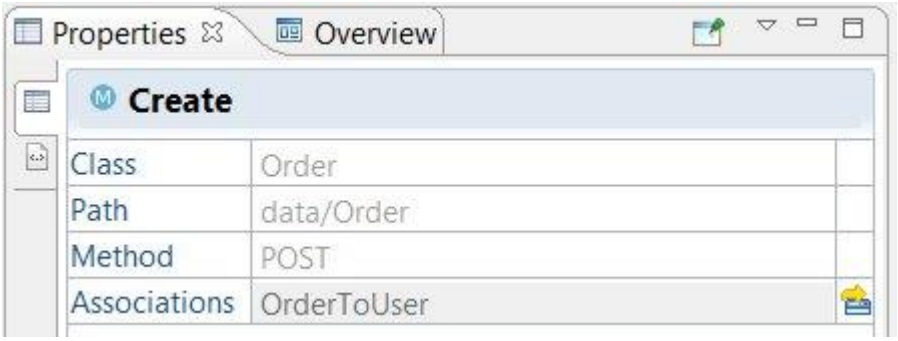
Table of Contents 3
Introduction 4
Data Service Improvements 5
Action Definition Modeling Improvements 6
Additional Mobile Application Settings 8
Moving from version 8.3 9
Fixed in 8.4.5 11
Fixed in 8.4.4 13
Fixed in 8.4.3 14
Fixed in 8.4.2 15
Fixed in 8.4.1 15
Fixed in 8.4.0 16
Older Releases 16
System Requirements 17
- WebRatio Development Platform 17
  - Operating System 17
  - Java 17
- WebRatio Generated Server Applications 17
  - Java 17
- WebRatio Generated Mobile Applications 17

INTRODUCTION

WebRatio Mobile Platform is a powerful development environment that supports business users and IT developers in building mobile applications that can be installed on mobile phones and tablets. Your mobile applications can work both offline, without the use of an internet connection; or online, synchronizing the information with an external system, which also can be developed with WebRatio Mobile Platform.
Let's review the main functionalities of this product release.

DATA SERVICE IMPROVEMENTS

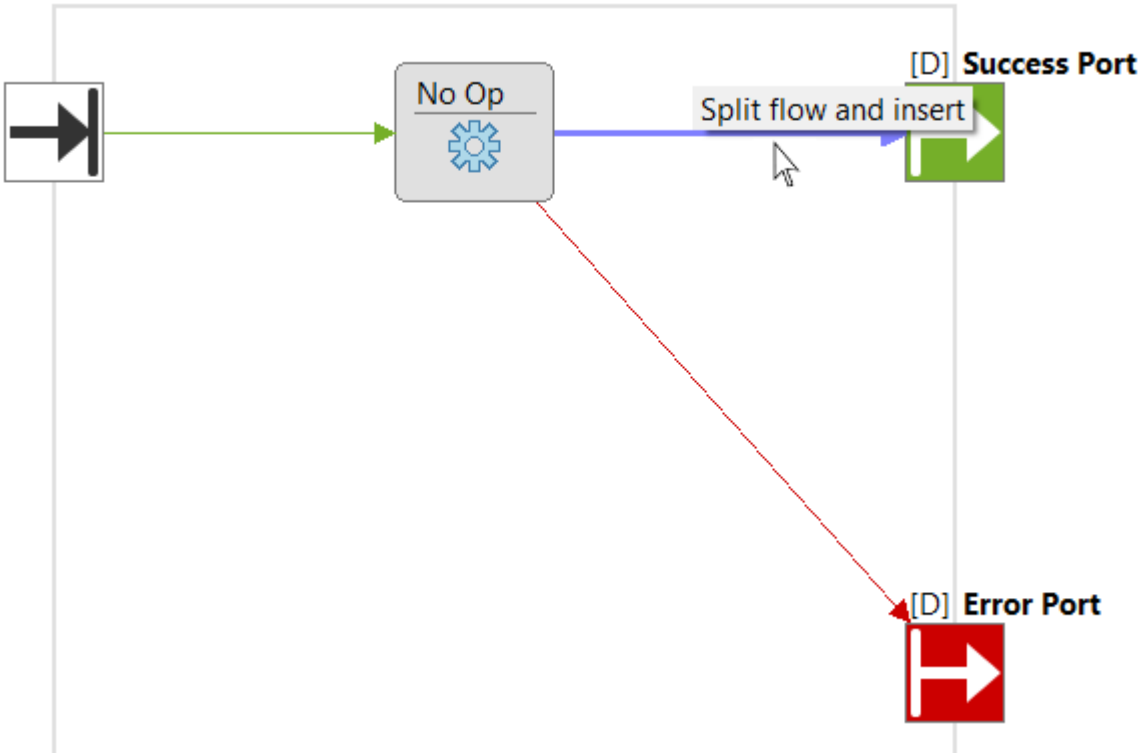
You can now configure a "Create" data service of a specific class so that the association of that class, with the class representing the user, is automatically filled in by the back-end application. The back-end application uses the current user making the requests as the value for all these associations. You just have to publish the "Create" method for the selected class and choose one or more associations in the "Associations" property, which is available in the Properties View. Refer to the following image for an example of the new Properties View.



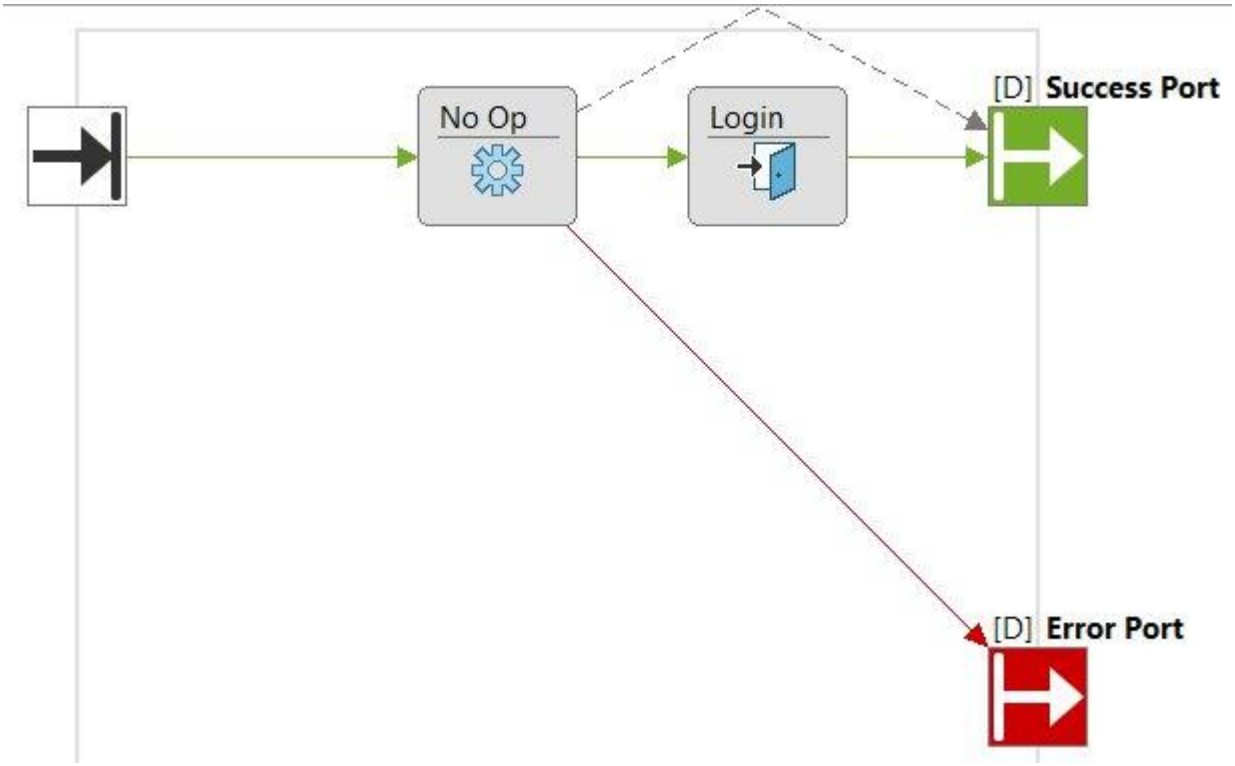
ACTION DEFINITION MODELING IMPROVEMENTS

You can now model the action definitions faster thanks to a couple of improvements. The first operation added to the action definition is now placed in the definition and automatically connected to all the default port configurations with a single click. You can then define the required parameters and binding on each flow.

You can also model your operation chain faster inside the action definition. In fact, you can now add an operation in the middle of an existing operation chain by clicking near the success or error you want to split in order to add the operation . The editor indicates this with a dedicated tooltip. You can refer to the following image as an example.

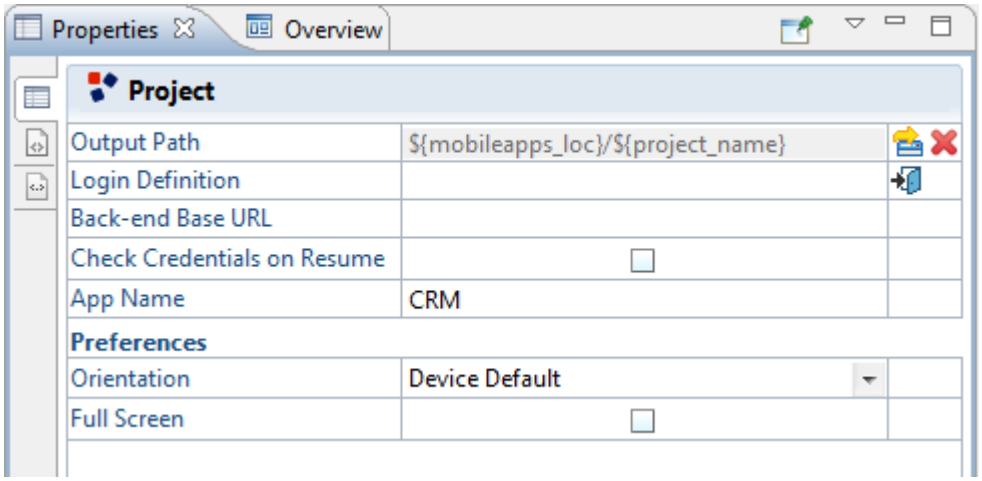


The operation is inserted in the operation chain at the specific point. WebRatio creates all the necessary flows to connect the new operation to the existing ones and to preserve the modeled bindings. Here is an example of the resulting model.



ADDITIONAL MOBILE APPLICATION SETTINGS

You can now set an orientation for the mobile application. In particular, you can decide whether the mobile application must apply the device settings or must follow the orientation of the device. You can also set the mobile application so that it works only with a specific orientation (Landscape or Portrait). You can also specify whether the mobile application must be opened in full-screen mode, using a dedicated property.



MOVING FROM VERSION 8.3

This section aims to help you to migrate your project from version 8.3 to version 8.4. You must read this section if you have a custom mobile style project in your workspace. You should change your custom field template, if you have one, by following these guidelines:

- Remove the code fragment that manages the error message by using the "hasValidation" flag. This is necessary due to inserting the implicit validations for the integer, float and decimal fields.

```
def hasValidation = field.selectSingleNode("VRules/*")
```

- For the management, see the old syntax and the new one.

OLD CODE

```
  <[%= type == "blob" ? "div" : "label" %] class="[%=
classes.join(" ") %][%= styleClass ? " ${styleClass}" : ""
%]"[% if (hasValidation) { %] ng-class="{ 'has-errors' :
view.formState.[%= field["id"] %].invalid }"[% } %]>
    [% if (!isField || labelStyle != "placeholder") {
      printFieldMode("label")
    } %]
    [% if (hasValidation) { %]
      <div class="wr-input-wrapper">
    [% } %]
    [% printFieldMode("value") %]
    [% if (hasValidation) { %]
      [% printFieldMode("error") %]
      </div>
    [% } %]

  </[%= type == "blob" ? "div" : "label" %]>

[% } else if (mode == "label") { %]
  <span class="input-label[%= styleClass ? " ${styleClass}" :
"" %]"[% if (hasValidation) { %] ng-class="{ 'has-errors' :
view.formState.[%= field["id"] %].invalid }"[% } %]>
    <wr:Label context="field"/>
  </span>
[% } else if (mode == "error") { %]
```

NEW CODE

```
  <[%= type == "blob" ? "div" : "label" %] class="[%= clas-
ses.join(" ") %][%= styleClass ? " ${styleClass}" : "" %]" ng-
class="{ 'has-errors' : view.formState.[%= field["id"]
%].invalid }">
    [% if (!isField || labelStyle != "placeholder") {
      printFieldMode("label")
    } %]
    <div class="wr-input-wrapper">
      [% printFieldMode("value") %]
      [% printFieldMode("error") %]
    </div>
  </[%= type == "blob" ? "div" : "label" %]>

[% } else if (mode == "label") { %]
  <span class="input-label[%= styleClass ? " ${styleClass}" :
"" %]" ng-class="{ 'has-errors' : view.formState.[%=
field["id"] %].invalid }">
    <wr:Label context="field"/>
  </span>
[% } else if (mode == "error") { %]
```

- You can check the new key for the new implicit validations in the "Localize" dialog: typeValidation.float, typeValidation.integer, typeValidation.decimal, typeValidation.date, typeValidation.time, typeValidation.timestamp.

FIXED IN 8.4.5

- Solved a problem regarding the output of the JSON I/O when having child Nodes. Now the returned JSON file contains the complete information about all the elements.
- Fixed the runtime behavior for the Form component in mobile projects. When you press on the Back Event to go back to a screen that contains a form, this component now correctly preserves the last values inserted in the fields.
- The fake error "Invalid Attributes references(s)" is not reported anymore by the Find Model Problems command when a Restriction Expression with imported attributes is defined on a Service Class.
- Fixed an issue regarding the list of available associations for the "Associations" property of the Update User method in a DataService project. Now the Association Selection dialog shows all the associations involving the selected User Class even if the selected class is a generalization of "User".
- Fixed the issue about the Providers tab in the Build Configuration dialog for mobile projects. Now the information about the Service/Data Providers defined in the projects is properly shown in the dedicated tab.
- Fixed the runtime behavior for the Back Event in a mobile project so that now the application eventually uses the custom behavior defined in the Mobile Project.
- Fixed the runtime behavior for the Map component showing more than one location, when running on an iOS device. All the locations are now properly shown.
- Solved an issue regarding the runtime behavior of the Map component in mobile apps when running on the PC emulator. Now the location provided as input to the component properly centered in the displayed map.
- Solved an issue regarding the runtime behavior of the Mail component when attempting to send mail with attachments.
- Fixed the runtime behavior for List components having an Attribute Condition in mobile apps. Now if the list has more than one incoming flow passing a filter value for the Attribute Condition, the list is always properly filtered.

- Solved a problem occurring during the Android build procedure. Now no error is returned in the Console View when attempting to build the app.
- Fixed a problem related to the properties of the List component. Now when you clear the "Data Binding" associated to the List component, all properties of the component are correctly emptied (i.e. Display Attributes, Sort Attributes etc..).
- In addition to all the other information, the Database JDBC URL string is now available in the Properties tab containing the Free Space Cloud Account information.

FIXED IN 8.4.4

- Solved problems that occur during the Build procedure. Now no error is returned in the Console View when attempting to build the app.
- Fixed the runtime behavior for the Maps component that shows more than one location. This component now properly shows the locations using an Android device.
- Solved a problem that did not correctly show a map in a mobile application on an iOS device. Now a location in a map is properly shown every time it is called.
- Fixed the behavior for an attribute mapped on the back-end in a mobile project. Now when you copy a mapped attribute, it is correctly pasted in an unmapped Class by removing the reference to the back-end.
- Fixed the runtime behavior for a screen that contains a map and has a Top Bar with a popover menu. Now the menu entries work properly.
- Fixed the issue regarding the "Search in Project" command. Now when double-clicking on a "Styles" search result, the layout view is properly displayed with all its content.
- Fixed the behavior for the WebRatio Mobile Platform model editor. Now no error is returned when right-clicking on the database node in the Outline View after the deletion of a Service View.
- Improved the behavior regarding layout errors returned by the Find Model Problem command. Now when double-clicking on an error, the focus is moved to the element causing the problem.

FIXED IN 8.4.3

- Solved a problem in DataService projects causing the emptying of the "Associations" property for the Create method on a published class after the adding of an attribute on another class in the Domain Model.
- Improved the editor behavior when modeling Action Definitions. When an Action item is placed in the work area as a first operation, it is now automatically connected to the Input Port Definition with a Success Flow.
- Fixed the runtime behavior of mobile apps localized with more than one language. Now if the device language is not provided by the app localization settings, the "$$LANGUAGE_ISO_CODE$$" variable refers to the language set as default in the localize panel.
- Solved a problem regarding the screen layout in mobile projects. No error is now returned by the "Find Layout Problem" command when the grid layout contains a cell containing two or more cells.
- Improved the "Find Model Problem" command on mobile projects. Now the "Unnecessary attribute mapping" warning message is returned when in the Domain Model there is an attribute mapped to the back-end that belongs to a class not mapped to any class in the back-end. The "Quick Fix" option is available to unmap the attribute.
- Fixed the runtime issue for mobile apps when showing fields having the ' character in the name. Now in this case, fields are properly displayed.
- Fixed the runtime behavior for mobile app synchronization. Now the synchronization process is successfully completed if a synchronized class is related to a non-synchronized one.
- The "Task" tab is now available in the Build Configurations of a mobile project.

FIXED IN 8.4.2

FIXED IN 8.4.2

- Improved the REST Summary page for DataService projects. Now a sample value is also provided for published attributes mapped on XSD resources and defined as “short” simple type in the source XSD schema.
- Fixed the issue regarding mobile apps running on iOS devices. If the app is set in full-screen mode, now it is properly rendered at runtime.

FIXED IN 8.4.1

- Solved a problem related to the “Parameter Binding” dialog of a flow that did not show the input parameters related to a complex parameter when the target of the flow is a Restful Request Response operation.
- Solved a problem related to the “Parameter Binding” dialog of a flow that did not show the input parameter when the target of the flow is a list component with an attribute condition based on an imported attribute.
- Solved a problem for a checkable list with “IonList” template applied to it that caused the checkboxes in the list to not be rendered.
- Fixed the generation process of mobile projects so that it completes successfully if the project contains a List Component with an attribute condition based on an imported attribute.
- Fixed the runtime behavior of the synchronization algorithm in a mobile application with the back end . When a class in a mobile project is not synchronized with the back-end application (unmapped), the data of this class now will be restored to their initial state every time a new user accesses the Mobile App.

FIXED IN 8.4.0

- Improved the visualization of a "Singleton" class in the domain model of a mobile project. Now the "<<Singleton>>" string is visible at the top of the class name, as you can see for the "App User" Class.
- Fixed the Find Model Problem command that caused the retrieval of false warnings in Data Service project when synchronized with a PostgreSQL database.
- Added an automatic validation on the integer fields in mobile apps that prevents the user from providing an invalid value (e.g. 1.35 /).
- Added an automatic on the integer fields in mobile apps that prevents the user from providing a value that is too long (with more than 15 digits, e.g., "456987123654987120335487984351322156465432134").
- Improved the validation of integer fields in mobile apps. Now, when the user provides an invalid value (e.g., "5-" or "5*"), the application shows the proper validation error message.
- Added an automatic validation on decimal fields in mobile apps that prevents the user from providing an invalid decimal.
- Fixed the runtime behavior that caused a synchronization issue when attempting to synchronize a mobile app with its back-end application. Now, when a large number of objects are involved in the synchronization, the process is completed successfully.
- Resolved the runtime behavior for "Date" and/or "Time" fields selected simultaneously in mobile apps when attempting to enter some value in them. Now if two or more fields are tapped at the same time, the corresponding input popups will be opened one at once.

OLDER RELEASES

Here you can find the release notes of previous WebRatio Mobile Platform releases:

- WebRatio Mobile Platform 8.3 Release Notes
- WebRatio Mobile Platform 8.2 Release Notes
- WebRatio Mobile Platform 8.1 Release Notes
- WebRatio Mobile Platform 8.0 Release Notes

SYSTEM REQUIREMENTS

WebRatio Development Platform

Operating System

- Microsoft Windows Vista or higher, 64 bit
- Linux, 64 bit
- Mac OSX 10.7 (Lion) or higher, 64 bit

Installing WebRatio Development Platform also requires:

- Disk Space: 600 MB
- RAM: 4 GB minimum, suggested is 8 GB

Java

When running WebRatio Development Platform on a computer you will need the Java Runtime Environment (JRE) 1.7 or higher.
You can download JDKs here:
http://www.oracle.com/technetwork/java/javase/downloads/index.html

WebRatio Generated Server Applications

Application Server

When running WebRatio Generated Server Applications on a server you will need a Java Application Server compatible with Servlet 3.0 and JSP 2.2.

Java

When running WebRatio Generated Server Applications on a server you will need the Java Runtime Environment (JRE) 1.6 or higher.

You can download JDKs here:
http://www.oracle.com/technetwork/java/javase/downloads/index.html

WebRatio Generated Mobile Applications

The Mobile Apps generated with WebRatio Mobile Platform are compatible with:

- Android 4.0.3 or higher
- iOS 7 or higher

WEB RATIO®

2015 © 180–JA

learn.webratio.com

WebRatio srl
@ Como NExT
Science and Technology Park
Via Cavour, 2 – Lomazzo (Como) – ITALY
www.webratio.com