Text Encoding Customization

Customization Guide

Customer Support

MT6000

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Document Revision History

Revision	Date	Author	Description
V1.0	2010-04-07	Baosheng Wang	Initial Release
V2.0	2016-12-24	Shan Zhang	Browser function update

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1 Introduction

1.1 Browser Settings

Menu / Settings / Advanced / Text encoding
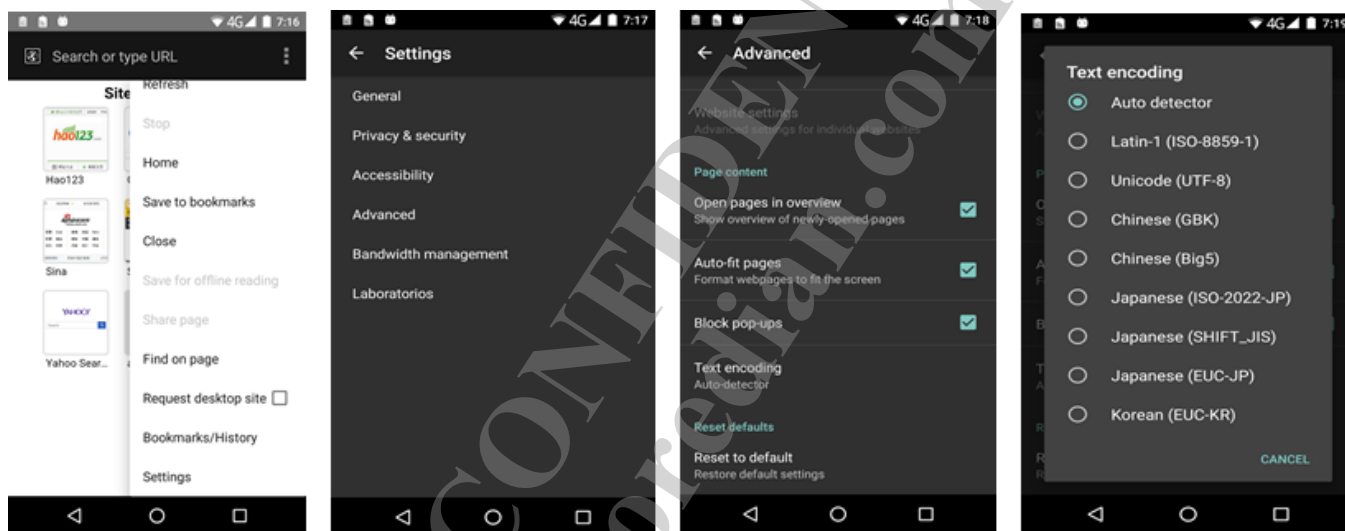
Figure 1-1.Browser Settings

1.2 Text Encoding

Browser text encoding is used for decoding web document encoded with different character-sets ex: Latin-1, UTF-8, GBK.

Android browser use ICU (International Components for Unicode) to decode web document, so it can support most text encoding.

1.   Android2.2 use ICU4.2

2.   Android2.3 use ICU4.3

The default text encoding in browser settings are:

·   Latin-1 (ISO-8859-1)

·   Unicode (UTF-8)

·   Chinese (GBK)

·   Chinese (Big5)

·   Japanese (ISO-2022-JP)

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- Japanese (SHIFT_JIS)

- Japanese (EUC-JP)

- Turkish (ISO)

- Turkish (Windows)

- Thai (Windows)

But customer can add and delete special text encoding in browser settings.

1.3　How to Use This Manual

This segment explains how information is distributed in this document, and presents some cues and examples to simplify finding and understanding information in this document. **Error! Reference source not found.** presents an overview of the chapters and appendices in this document.

Table 1-1. Chapter Overview

#	Chapter	Contents
1	Introduction	Describes the scope and layout of this document.

1.3.1　Terms and Conventions

This document uses special terms and typographical conventions to help you easily identify various information types in this document. These cues are designed to simply finding and understanding the information this document contains.

Table 1-2. Conventions

Convention	Usage	Example
[1]	Serial number of a document in the order of appearance in the References topic	Look up Chapter 2: System Architecture in [1]
void xx(zz)	Source code	static int __stdcall cb_download_bloader_init(void *usr_arg){}
☞	Important	

2   Customization items list

Customization items list is as follows:

1.   Add Text Encoding

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3   Abbreviations

Please note the abbreviations and their explanations provided in **Error! Reference source not found.**. They are used in many fundamental definitions and explanations in this document and are specific to the information that this document contains.
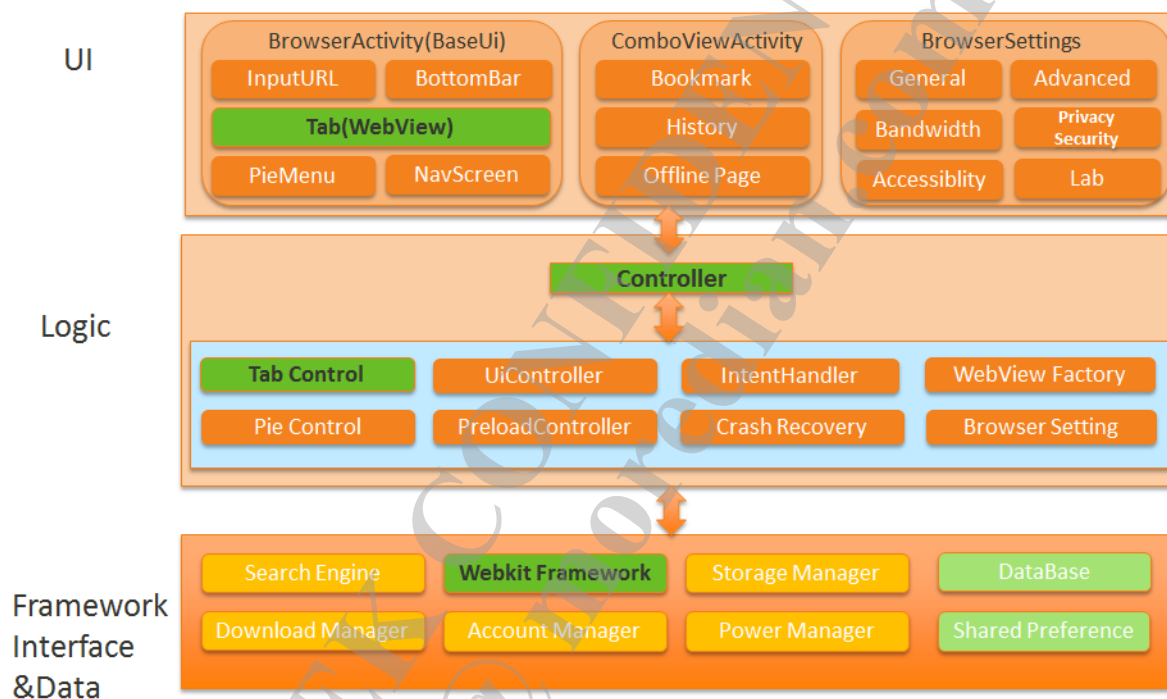
Table 3-1. Abbreviations

Abbreviations	Explanation
MTK	MediaTek, Asia's largest fabless IC design company.

4 Overview

This chapter first gives a brief description of the modules of the system and the relationship of the modules.

4.1 Architecture

Figure 4-1. Browser Architecture

The description of the directories and their subdirectories is given below:

res/values/   Contains the top-level source directory

res/values/strings.xml   Contains the strings entity

5   Detailed Customization Procedure

5.1   Add Text Encoding

Adding text encoding is very simple only needs three steps.

Firstly, check text encoding ICU supported. You can check if the text encoding is supported by ICU from ICU official website or other customer document.

Secondly, modify `//android/packages/apps/Browser/res/values/strings.xml`. This file defines text encoding choices and values following this syntax:

```xml
<!-- Options in the Default encoding dialog box -->
<string-array name="pref_default_text_encoding_choices">
    <item>Auto detector</item>
    <item>Latin-1 (ISO-8859-1)</item>
    <item>Unicode (UTF-8)</item>
    <item>Chinese (GBK)</item>
    <item>Chinese (Big5)</item>
    <item>Japanese (ISO-2022-JP)</item>
    <item>Japanese (SHIFT_JIS)</item>
    <item>Japanese (EUC-JP)</item>
    <!-- No need to translate a EUC-KR part, and there is no string length limits. -->
    <item>Korean (EUC-KR)</item>
    <!-- TODO: We should add a lot more encodings. -->
</string-array>
```

```xml
<string-array name="pref_default_text_encoding_values" translatable="false">
    <item>auto-detector</item>
    <item>Latin-1</item>
    <item>UTF-8</item>
    <item>GBK</item>
    <item>Big5</item>
    <item>ISO-2022-JP</item>
    <item>SHIFT_JIS</item>
    <item>EUC-JP</item>
    <item>EUC-KR</item>
</string-array>
```

There are two string arrays:

➢ *pref_default_text_encoding_choices* defines text encoding display name in browser setting, e.g. Latin-1, UTF-8. So add your text encoding display name to this string array.

➢ *pref_default_text_encoding_values* defines text encoding values passed to webkit. So add your text encoding value to this string array.

Thirdly, modify other `//android/packages/apps/Browser/res/values-*/strings.xml` ex: values-zh-rCN. Modify *pref_default_text_encoding_choices* following the second step. Because *pref_default_text_encoding_values*'s translatable="false", there isn't text encoding values in values-*/strings.xml. Text encoding values string array isn't needed modified

5.2　　　Reference

http://site.icu-project.org/

http://wiki.whatwg.org/wiki/Web_Encodings#Safari

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