



MHP, Multimedia Home Platform 1.1.2 Course

code4tv is pleased to offer the following Multimedia Home Platform Training program. We provide a extensive and intensive material, with the aim to effectively give the alumns a deep and practical view of MHP, so that alumns can achieve MHP projects with a solid and confidence background

Courses for Companies

Courses are for public/private entities. The client can also contract a course for a third-party.

Courses are performed at client's offices. We are open to travel anywhere in the world.

Each alumn will work in an **independent Course-Station that consists on a MHP 1.1.2 Set-Top-Box interactive profile with ethernet and smartcard support**, a workstation where to code the exercises and a USB 2.0 TV Viewer. (Check out code4tv website for environment requirements at client offices)

The maximum number of alumns per course is 6. In our experience this is the limit to be able to provide an excellent attention to all alumns.

Courses ad-hoc

If the client has a specific course content need we can build it specifically to satisfy it. Check ahead all the material available.

Material

Each alumn will receive the course content in digital format

A private Diploma in digital format is given to each alumn

Target audience

Anybody who needs to learn MHP from scratch, or knows a bit theoretically and definitively wants to learn deeply the technology

Methodology

All courses are **presential**.

The methodology is the following, applied for each chapter:

We go over the theory understanding it and applying it in exercises during the process. Generally, depends on the chapter, we do not wait to see it all to start practicing.

In the exercises: each alum will solve the problem alone, while the teacher walks around solving the doubts. Finally we all share the results, the problems, the solutions...

**INTERACTIVE CONTENT FOR TV MAKES THE DIFFERENCE
GO FOR IT!**



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Requirements

Mid-level of the Java Language. It is not necessary any special knowledge of any concrete API.

We will work with a special Java version derived from JSDK 1.4.2. There will be Threads, Interfaces, call-backs...nothing strange.

Development Environment

The Development Environment is Eclipse Europa and we shall use the basic Java Projects Functionalities

Content

The full content consists of **32 Chapters** with **more than 80 practices**.

MHP is a complex piece of technology working in a completely different scenario from the PC one: TV Broadcast.

It is important to understand clearly the context to be able to assimilate properly how Multimedia Home Platform works, and more important: to be effective and error-free when building MHP solutions, therefore the course has been designed assuming those facts.

At the same time we have tried to be as much didactic as possible putting ourselves in the alumn place during the course development process.

The courses offered are 2: types A and B, with the ad-hoc course option. In the following pages you can see the complete content detail.

Prices

MHP 1.1.2 Course A

This course covers the full content.
It's duration is **72h (9 days)**, containing **more than 80 practices**.
Price per course for Companies: 2850 € (Taxes not included)

MHP 1.1.2 Course B

This course covers the most commonly used APIs.
It's duration is **40h (5 days)**, containing **more than 50 practices**.
Price per course for Companies: 2000 € (Taxes not included)

AD-HOC MHP 1.1.2 Course

The client chooses the content. Price will depend on time.

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course content. 1 / 2

Chapter	Description	Practical	B	A	Chapter	Description	Practical	B	A
INTRODUCTION	History of DTV Middleware: Let's put ourselves in situation MPEG-2 signal transmission: Let's have a base of digital Broadcasting. Information in the Stream: Descriptors & DSMCC		X	X	GRAPHICS II WIDGETS	Graphics II: Havi, User Input, Transparencies...	X	X	X
WHAT IS MHP	What is it: APIs, profiles, versions, restrictions...		X	X	EXPENSIVE RESOURCES	A competitive execution environment		X	X
STUBS 112	MHP 1.1.2 libraries. The stubs to compile against MHP 1.1.2 specs. Its definition, configuration and packages		X	X	SI-DVB	DVB System Information. Accessing to the System Information	X	X	X
JAVA MEDIA	Presenting content with JMF...is there any other way ?	X	X	X	SECURITY	Signed vs Unsigned Apps. The permissions model.		X	X
PERSISTENT STORAGE	A small "shared" Hard Drive in your STB	X	X	X	DSMCC FILES & DIRECTORIES	DSMCC Object Carousels, Domains....	X	X	X
PRIVILEGED PERMISSIONS	Really useful. We'll see and use a code4tv "remote xlets HTTP download framework"	X	X	X	SERVICE CTX JAVATV SELECTION	The Service Context and JavaTV Selection API. Broadcast & interactive. Making HTTP/SSL/HTTPS calls not so straight forward with https...	X	X	X
RC CONN	Let's connect to internet using a Modem!	X	X	X	PROTOCOLS		X		X
INTER-XLET	Inter-Xlet Communication. Xlets accessing to other Xlets	X	X	X	XML PROCESSING	XML Parsing in MHP	X		X
1.1.3 vs 1.1.2	What's coming....		X	X	PLUG-INS	Why are them necessities. How they work			X
XLETS LIFE- CYCLE	Xlets. Life cycle	X	X	X	TUNING	Tuning to other Transport Streams...	X		X
FORMATS	What kind of data MHP supports ?		X	X	USER PREFS	Managing the User Preferences	X		X
GRAPHICS I: DEVICES & SCENES	Graphics I: understanding the architecture, the Devices and Scenes	X	X	X	DSMCC STREAM EVENTS & NPT	Synchronizing Content with Applications: GOAL !!!! Do you want a Pizza ?			X



Chapter	Description	Practical	B	A
STORED SERVICES & CACHED APPS	Application Channels coming from.....your own STB!. Apps get cached	X		X
SI-SECTION FILTERING	Accessing MPEG-2 Sections bytes. No classes, just bytes!	X		X
NON CA SMARTCARD. SATSA	Current situation regarding SATSA: MHP 1.1, 1.1.2, 1.1.3... In the practice we shall make the connection to the smartcard using MHP 1.1.3 new APIs	X		X
APP LISTING & LAUNCHING	Managing other applications life cycle.	X		X
INTERNET CLIENTS	Email, Usenet, Web Browser...			X
SI-JAVATV	JAVATV System Information. Accessing to the System Information in a different way.	X		X
APP SIGNALLING	Lets see in detail how the applications are downloaded	X		X
INTERACTION CHANNELS	Application Channels coming from the net!! We will test if our STB supports this functionality			X

the Company

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