

**VIRDI** + **NITGEN**

# UBio Alpeta Training





# 1. UBio Alpeta Introduction

# Background

Biometric Access control market is changing.

Now  
Future

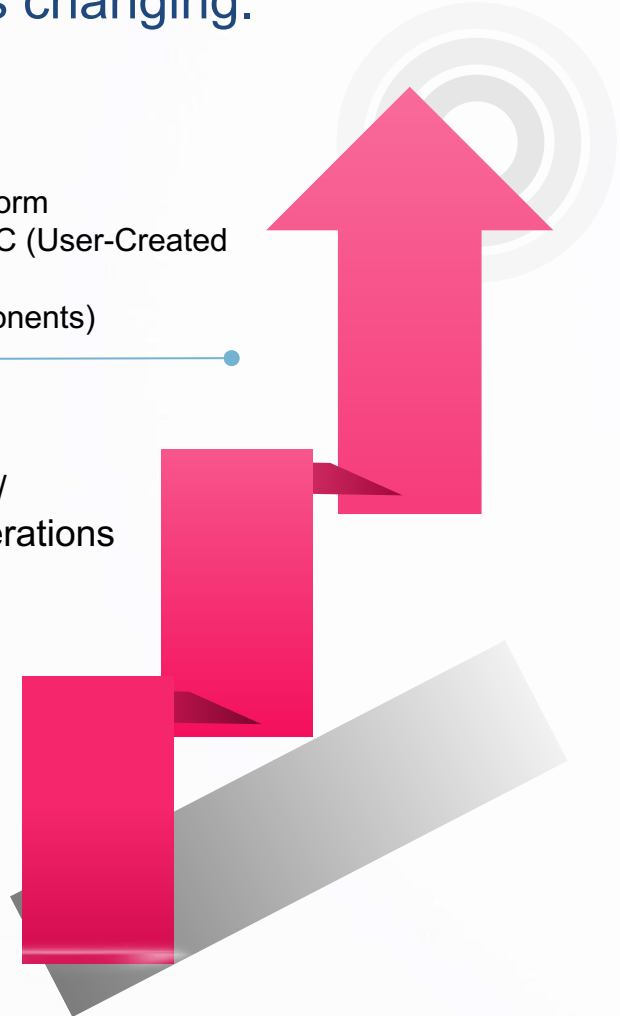
S/W based ecosystem/ Shared Platform  
Design / Authentication Speed + UCC (User-Created  
Contents/Components)  
UDC (User-Defined Contents/Components)

Now

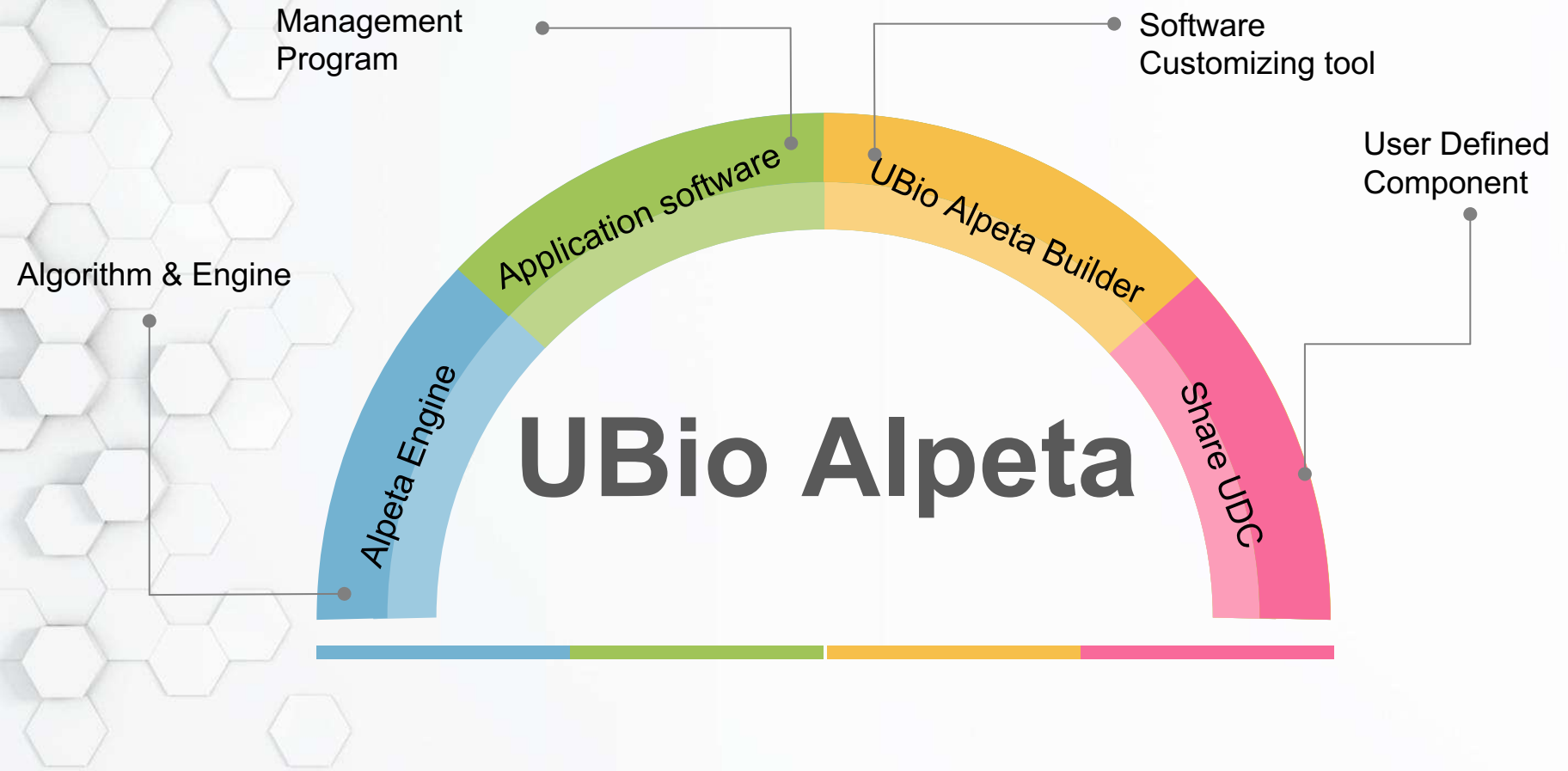
Design / Authentication Speed /  
Integrated services / User-Centric operations

Past

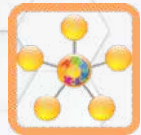
Competing with low cost Chinese brands and  
hardware prices



# UBio Alpeta Solution Summary 1.



# UBio Alpeta Solution Summary 2.



Required features only selected Plug-in



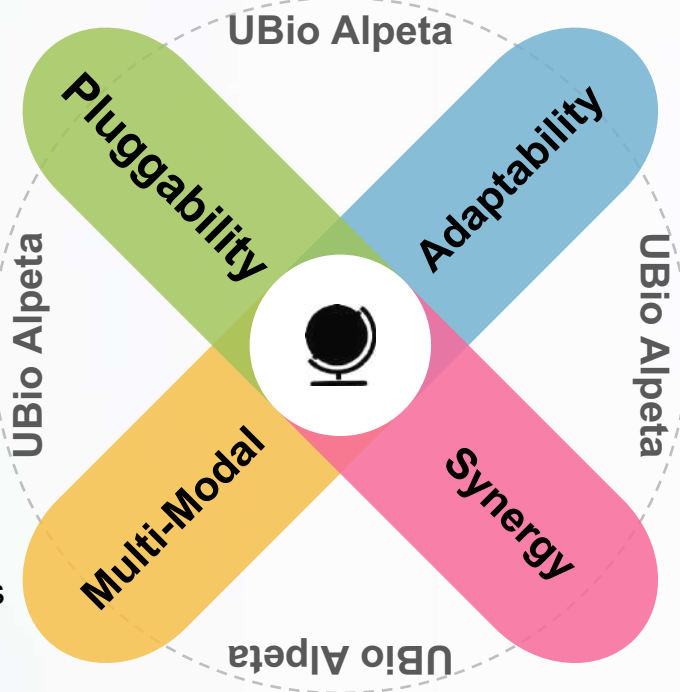
Optimized UI for client



Powerful features and compatibility



Multiple Biometrics Service provision



# Function Upgrade

<Before>



Installation Inconvenience  
Per user PC Must be installed



Limited number of connections  
Administrator access restriction



Limited Capacity  
Limited Terminal connection /  
Limited number of users/  
slow authentication



Source coding only No  
alternatives

What's different?

<After>



No installation required  
Regardless of PC  
environment



Unlimited access  
regardless of  
work place



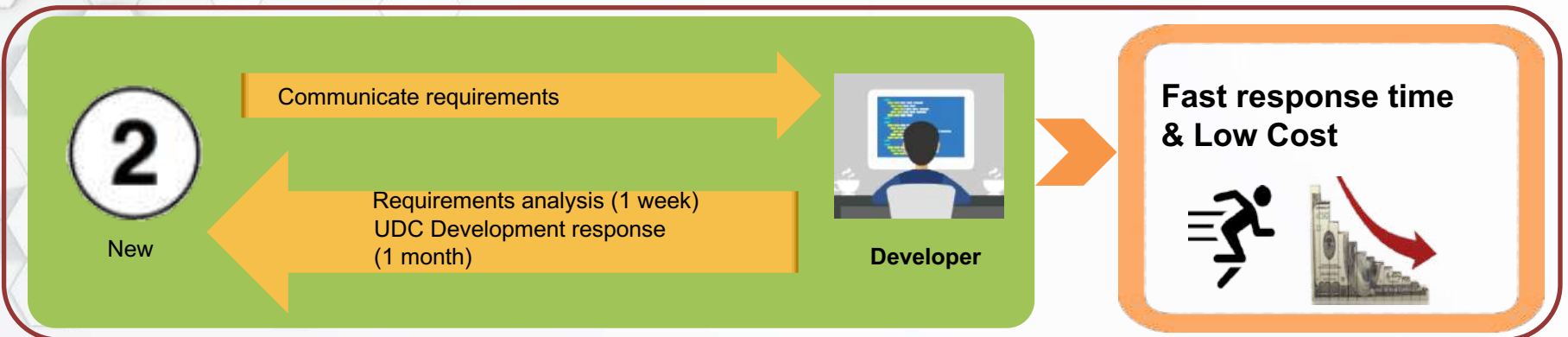
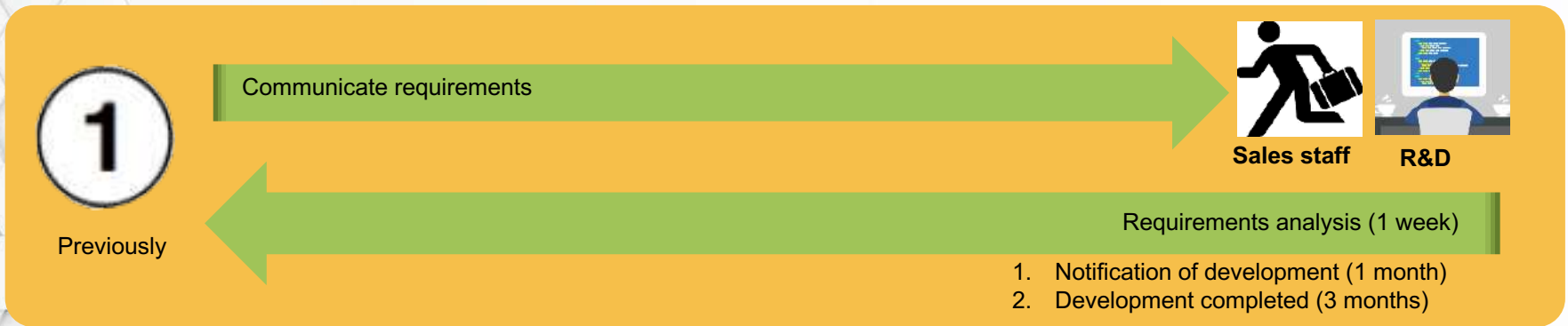
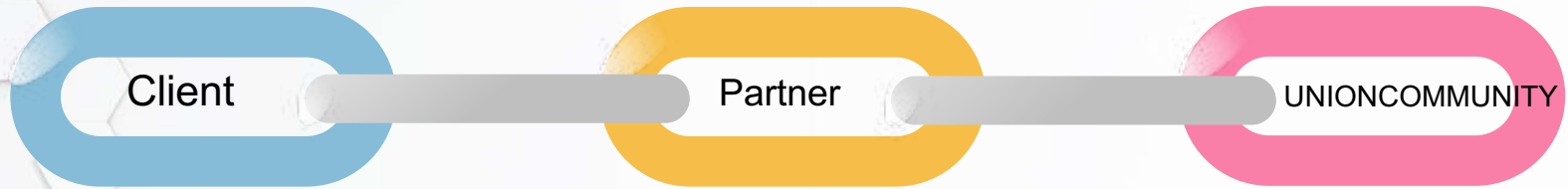
High capacity  
2,000 Terminal /  
100K users /  
High-speed server  
authentication



UDC Feature / UI module  
deployment UDC  
shared system

# UBio Alpeta Builder Solution

## ❖ Business workflow comparison



# Solution Comparison

	UBio Alpeta	BioStar2	UNIS	ACM Pro	Description
<b>OS</b>	Windows/Linux	Windows	Windows	Windows	Independent from OS
<b>Solution</b>	Web Base	Web Base	C/S, Web Base	C/S	
<b>Program</b>	Web Browser (Chrome recommend)	Web Browser (Chrome)	Windows Base, Web Browser	Windows Base	
<b>Client SDK</b>	Web API	Web API	None	Windows COM	Web API Support (OS Independent development)
<b>Database</b>	MSSQL, Maria	MSSQL, Maria	ODBC Connection	MSSQL	
<b>Max Terminal</b>	2,000	1,000	1,000	2,000	Server concurrent access Maximum number of terminals
<b>Max Users</b>	No Limitation	No Limitation	100,000	100,000	Server concurrent access Maximum number of terminals
<b>UDC</b>	O	X	X	X	Customization, UI Superior performance / Over 3 years of technology with competitors

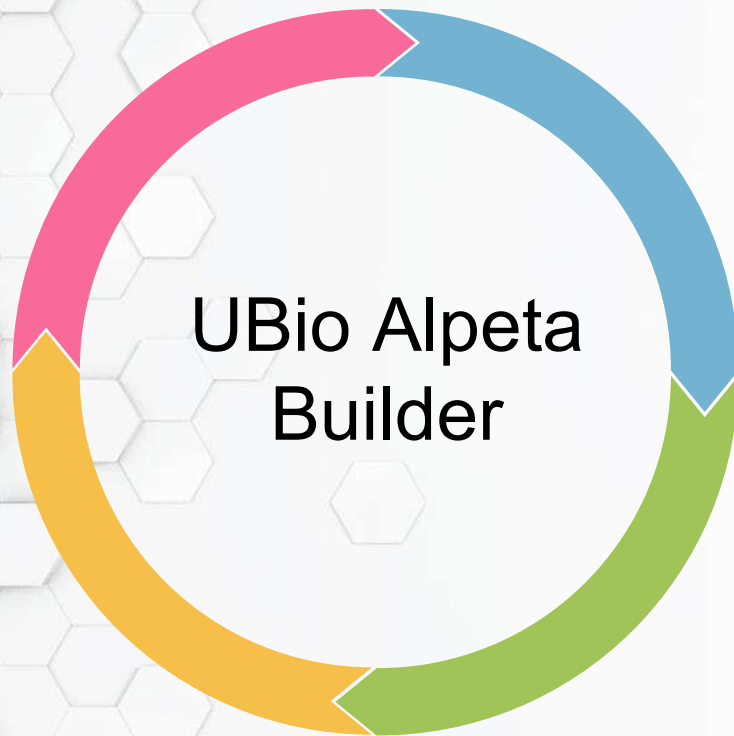






## 2. UBio Alpeta Builder

# UBio-Alpeta Builder


IDE fully integrated into Eclipse, special content to understand and provide developers intent Assisted, responsive web & N Screen support for high performance, creative and creative features.


**HTML**  
HTML5, ECMA Script Base  
UI-UX Platform



Support All Major  
Browser  
\*MS IE 10 or above



Eclipse Base  
Development Tool



A complete  
component type  
Providing UDC function

# ❖ Development environment

## The “Go” Programming Language



Go  
Go

A new programming language that Google created in 2009

Robert Griesemer, who contributed to the V8 JavaScript engine, Rob Pike, who created UTF-8, and Ken Thompson, who designed the early Unix operating system and developed the B language (the C language predecessor).

**The Go language** Supports concurrency well. Developed using a lightweight (about 2K Byte) thread called go routine. It is easy to use concurrency program by using channels that send and receive messages between routines to minimize system burden on many high routines.

Easily create applications for MSA (Micro Service Architecture) and REST (Representational State Transfer) models. For Ruby / python, you have to choose between various web frameworks. The Go language is sufficient as a basic net / http package.

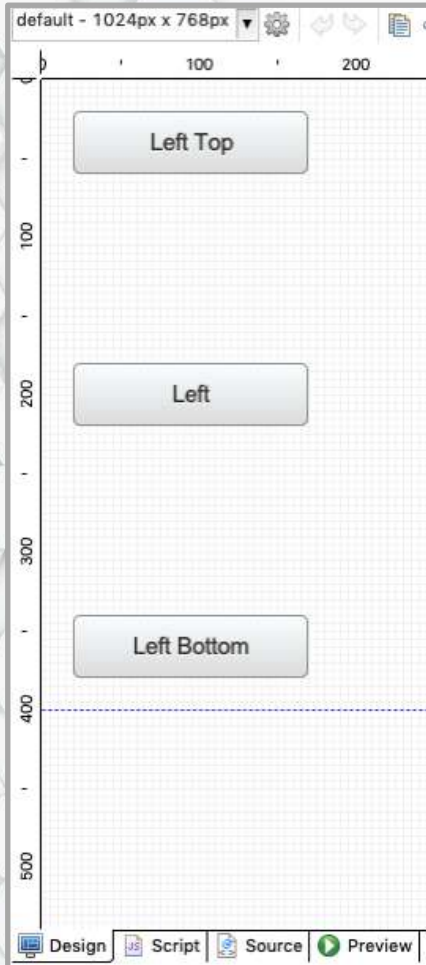
# UBio-Alpeta Builder

The screenshot shows the UBio-Alpeta Builder interface with the following components highlighted by numbered callouts:

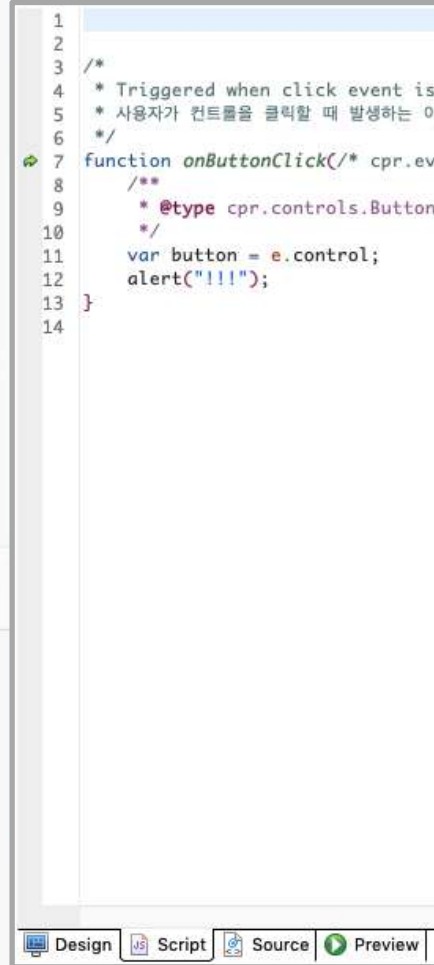
- 1 UDC SECTION (PROJECT)**: Points to the Project Explorer on the left side of the interface.
- 2 FUNCTION COMPONENT**: Points to the Palette on the left side of the interface.
- 3 PROJECT TAB**: Points to the top of the main workspace area.
- 4 PROJECT VIEW**: Points to the central workspace area where the project is visualized.
- 5 FUNCTION LAYER**: Points to the Outline panel on the right side of the interface.
- 6 VIEW TAB**: Points to the bottom of the main workspace area, specifically the Design, Script, Source, and Preview tabs.
- 7 ASSISTANT**: Points to the Assistant panel at the bottom of the interface.

# UBio-Alpeta Builder

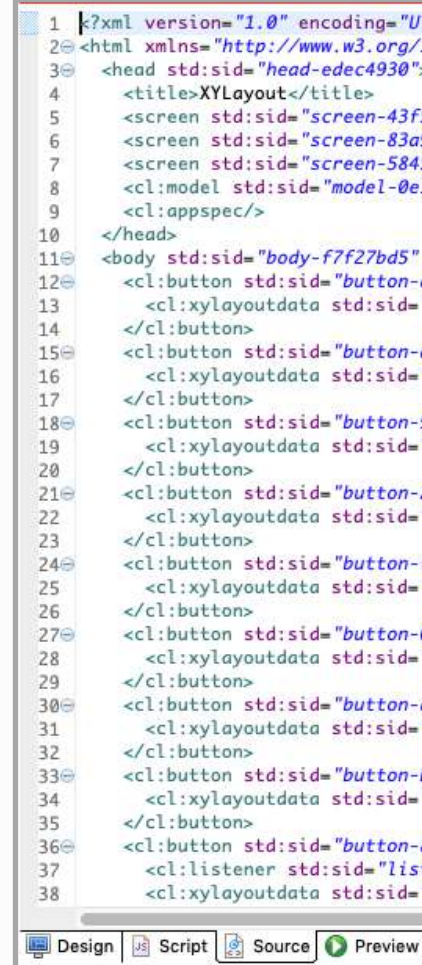
Automatically convert into java script based on design



DESIGN



JAVA  
SCRIPT



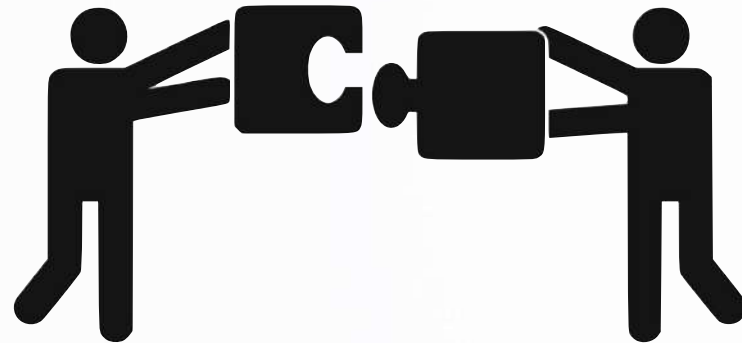
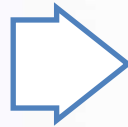
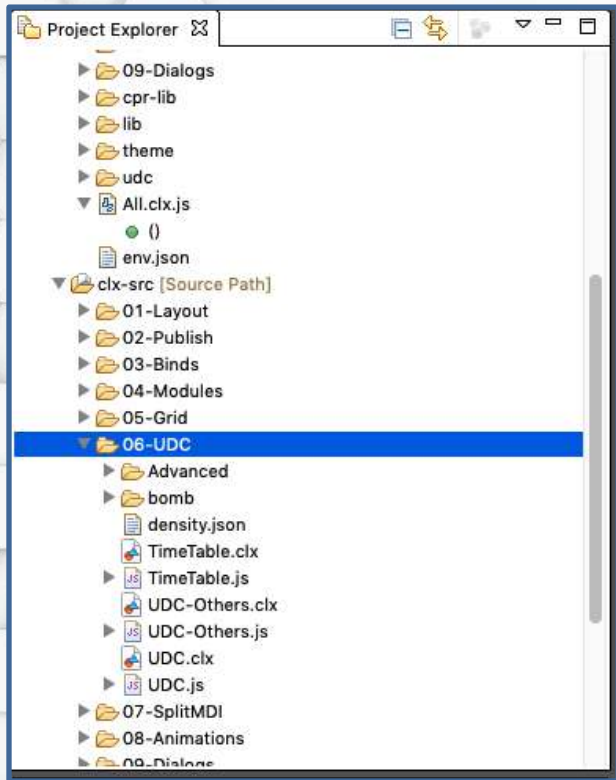
SOURCE



PREVIEW

# UBio-Alpeta Builder

UDC = Sharing with partners



UNOINCOMMUNITY

+

PARTNE  
RS

+

CLIENT  
S



# UBIO ALPETA BUILDER DEMO



### 3. UBio Alpeta Main Feature



# 1. Main Feature / Configuration



## 2. Main Feature

01



- Developed as OS independent platform (Windows, Linux, Max OS)

02



- Support Major PC and Mobile browser
- Using https protocol to support packet encryption with SSL for security of communication section
- No installation required
- Unlimited simultaneous connections

03



### HTML5 Key Features

- Supports Video and Audio functions on it's own
- Supports various 2D and 3D graphics functions
- Directly control the H/W functions such as camera, motion sensor, etc. from the Web
- Client / Server bidirectional communication possible
- Various styles and effects such as font, color, background, etc.

## 2. Main Feature

04



- Fast installation speed
- Full MySQL compatibility
- High engine compression
- Windows/Linux/Unix can be installed in various OS
- Free distribution version
- Used primarily by small businesses

05



- Faster than MySQL
- Provides various procedures to increase processing speed (Light engine, speed acceleration)
- Can be installed on Windows OS
- Used mainly by midsize companies

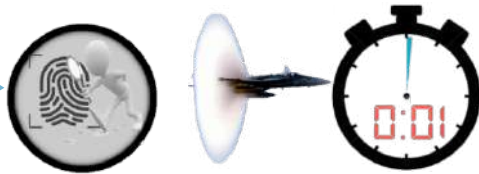
06



- First in the world management performance**
- 200,000 users
- Maximum terminal management: 2,000 units

## 2. Main Feature

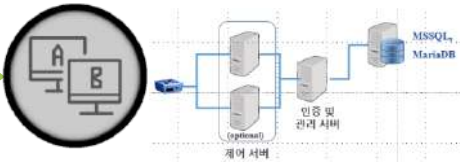
07



### First in World Performance

- Search 1,000,000 Fingerprint Templates within 1 second

08



System redundancy, load balancing, uninterruptible server operation  
Server redundancy structure design, system management, authentication request, etc. by distributing traffic in a distributed manner. Provide 365 days of continuous service at the same time

09



- Mobile remote time and attendance management through pre-authentication Service provision

10



- The server periodically monitors the device default information to set up automatic recovery so that there are no operational errors.

## 2. Main Feature

11



Toolkit for powerful SI in order to make it easy to integrate with clients' intranet, internal business system and other security solutions provide standardized Web API

### Powerful SDK

Using UDC, which is based on JASON format (international standard), various UI, function, application of specific process, etc. Support independent of source code

### Strong paradigm

Adopted new concept UDC (User Defined Contents) technology that overcomes the disadvantages of source code based solution from beginning to end (relocation of functions and UI change according to user's intention)

12

Fingerprint authentication  
PC Login Management



- Manage individual PCs according to policies established by the administrator
- Manage departmental and individual access rights
- Time control function
- Import / export function
- File / folder encryption function using fingerprint- Automatic Patch Server function
- Watch dog function to prevent client policy change



# UBIO ALPETA SERVER DEMO



## 4. UBio Alpeta Operational Scenario

# Summary

01

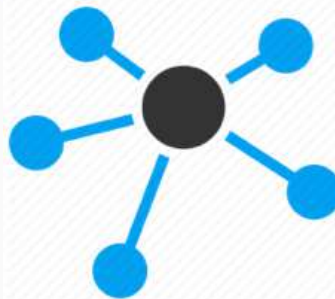
Cloud server  
method



Cloud Server

02

Distribution  
server  
method



Distribution Server

03

Local  
operation  
method

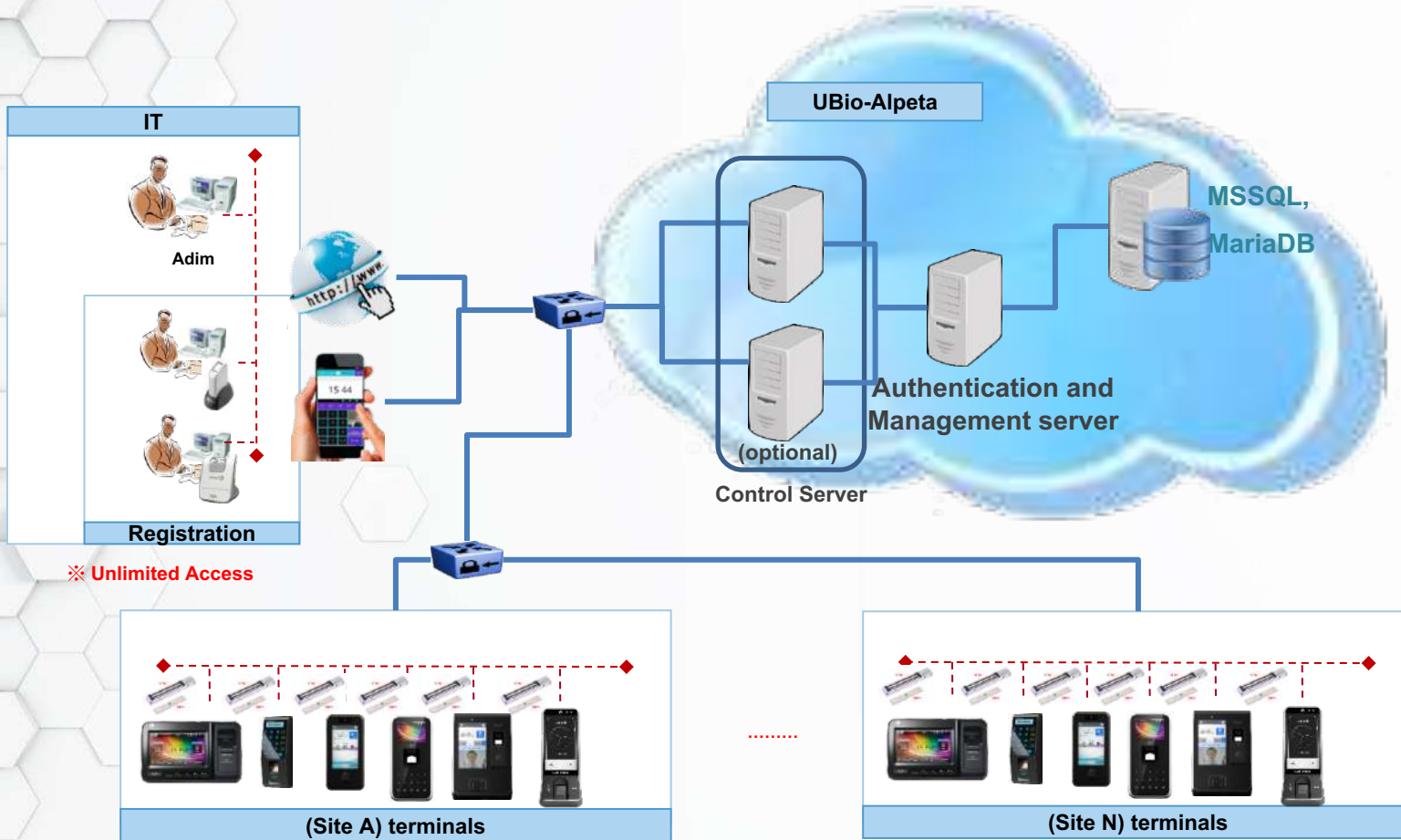


Local Server



# 1. Cloud server method

Customer operates Cloud server directly/ Main target: SI

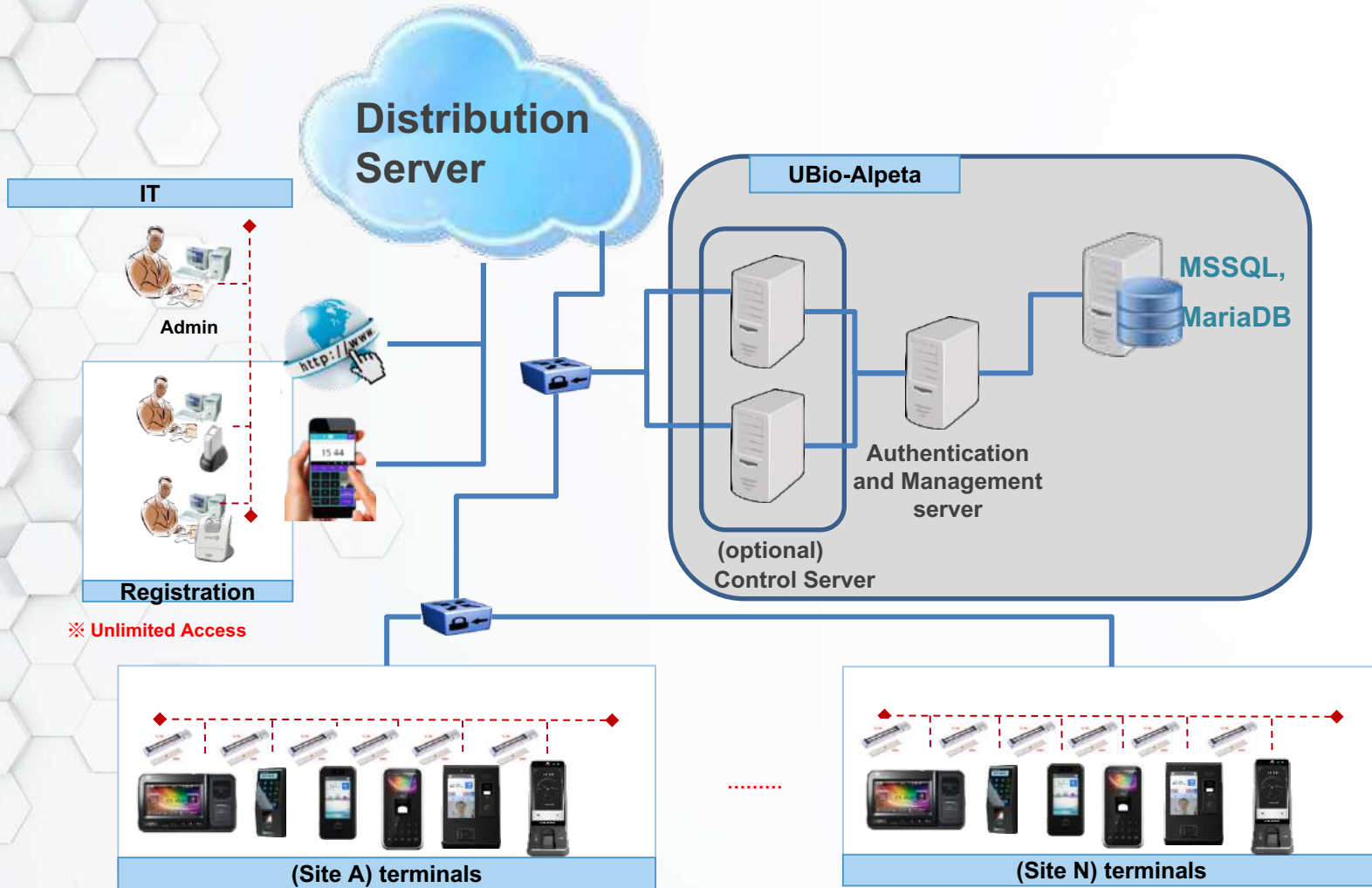


※ Unlimited Access

※ Max 2,000 Terminal

# 2. Distribution server method

Customer operates server directly

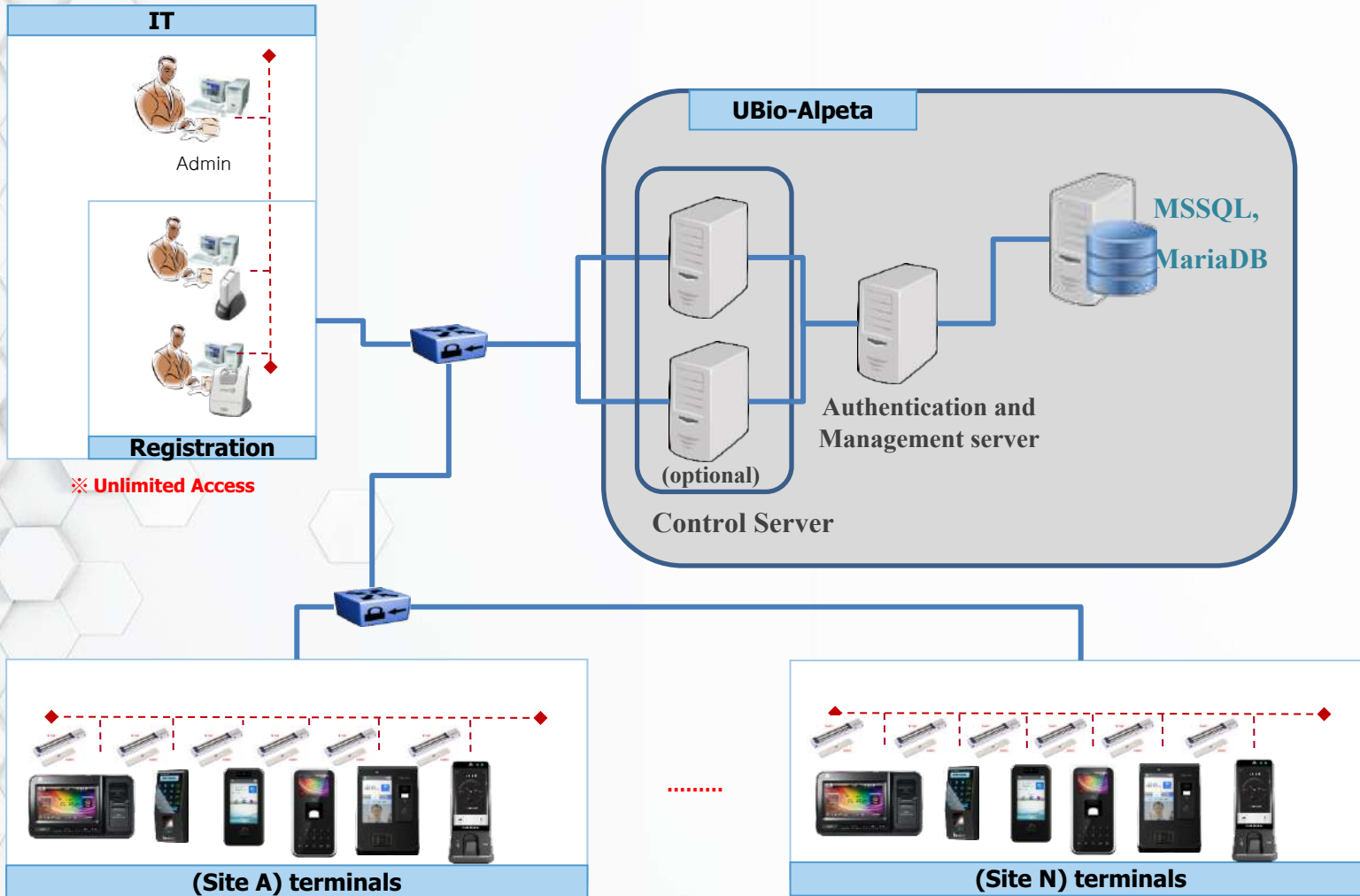


※ Unlimited Access

※ Max 2,000 Terminal

# 3. Local operation method

Main target: Small business



※ Unlimited Access

※ Max 2,000 Terminal



## 5. UBio Alpeta License Policy

# UBio Alpeta Licensing 1.

Alpeta Lite	Alpeta Standard	Alpeta Premium	Alpeta Enterprise
Access Control	Access Control	Access Control	Access Control
Free	Time and attendance management	Time and attendance management	Time and attendance management
	Meal Management	Meal Management	Meal Management
	Visitor Management	Visitor Management	E-mail Push (Notification)
	Price Level 1	E-mail Push (Notification)	Visitor Management
		Dash Board	Dash Board
		Relay server	Relay server
		E MAP	E MAP
		Integrated report	Integrated report
		Card Printing	Card Printing
		Price Level 2	VMS Integration
			LPR System
			Elevator Control
			Server Redundancy
			consultation

※ Additional development and interworking costs are separate

# UBio Alpeta Licensing 2.

## ※ Alpeta package classification

1. Customer complaints about complex package policies, including competitors' devices, users, and access group restrictions

2. More than 70% of product use is anticipated to be Alpeta Lite / Standard, more than 70% of our sales are expected to be customers of Alpeta Premium / Enterprise, thus providing management and tailor-made solutions

## UBio Alpeta

3. Compared with 8 kinds of competitor packages (T & A / Video Log), four types of Alpeta packages are required to select and concentrate system

4. Easy and easy upgrade of Alpeta (no S / W reinstallation)  
- Alpeta Lite / Standard Supports system upgrades due to S / N changes when license is changed to Alpeta Premium / Enterprise for the purpose of customers to use additional functions

# ✘ Competitor Comparison

Item		Starter	Basic	Standard	Advance	Professional	Enterprise
ACCESS	Number of Door	5	20	50	100	300	1,000
	Number of Terminal	1,000	1,000	1,000	1,000	1,000	1,000
	Max Access Authority <sup>1)</sup>	2,048	2,048	2,048	2,048	2,048	2,048
	Max Access group <sup>1)</sup>	2,048	2,048	2,048	2,048	2,048	2,048
	Max Access Group per User	16	16	16	16	16	16
	Maximum number of doors per entry level	128	128	128	128	128	128
	Automatic access group synchronization	v	v	v	v	v	v
USER	Maximum number of cards per user	8	8	8	8	8	8
	Maximum number of fingerprints per user	10	10	10	10	10	10
	User Auto Sync	v	v	v	v	v	v
	Access-on-card	v	v	v	v	v	v
	Security Credential Card	v	v	v	v	v	v
	iCLASS Seos Card	v	v	v	v	v	v
	Inactive user report	v	v	v	v	v	v
Custom field	v	v	v	v	v	v	
Elevator	Maximum number of elevators	-	-	-	1,000	1,000	1,000
	Maximum number per elevator	-	-	-	192	192	192
	Maximum total ratings	128	128	128	128	128	128
Sector	<del>Anti Pass back</del>	<del>△(Door)</del>	<del>△(Door)</del>	<del>v</del>	<del>v</del>	<del>v</del>	<del>v</del>
	Fire Alarm	-	-	v	v	v	v
	Schedule lock / unlock	-	-	v	v	v	v
	Security area	-	-	v	v	v	v
	Interlock zone	-	-	v	v	v	v
	Area of call	-	-	v	v	v	v
Advance	Dashboard	v	v	v	v	v	v
	cloud	-	-	v	v	v	v
	Server Matching	-	-	-	-	v	v
	Audit Trail	v	v	v	v	v	v
	Daylight Saving Time	v	v	v	v	v	v
	2 factor authentication	v	v	v	v	v	v
Monitoring	Number of mobile cards	-	-	250	500	1,000	1,000
	Graphic map	-	-	-	v	v	v

# ❖ Competitor Comparison

## Time Attendance License

Item	Basic (Free)	Time Attendance License
Number of working rules	unlimited	unlimited
Number of schedule	1	unlimited
Number of users per schedule	99	unlimited
Working rule type	Fixed work, flexible work	Fixed work, flexible work

## Video Log Licensing

Item	Basic (free)	Video Licensing
Video Log	-	v





## 6. Training

✂ Effect

How will partners benefit?

[Partner]

1. Less manpower input.  
(Labor cost reduction)
2. Competitive advantage over competitors  
Appeal to clients.
3. SI business participation Increase  
opportunities.(Profit increase)
4. Shortened development period.  
( cut down the money )

<UNIONCOMMUNITY>

Developer training Provide  
approval process.

# ✂ Training Time Module

Required Materials				
PC	Eclipse : Mars2			
OS	Windows 7 or above / MacOS / Linux			
Java	1.8 or above 64bit			
Server	Tomcat 6.0 or above (Tomcat 8.0 recommended)			
ALPETA BUILDER DEVELOPMENT TRAINING				
TIME DURATION	2 HOURS			
REQUIREMENT	JAVA, JAVA SCRIPT PROGRAMING DEVELOPER			
SAMPLE	ALEPTA BUILDER SAMPLE CODE WILL BE PROVIDED			
TRAINING SESION	ALPETA BUILDER 101			
	BASIC CONTROL INTRODUCTION & TRAINING			
	MAIN FEATURE INTRODUCTION & TRAINING			
	ALPETA BUILDER UI DEVELOPMENT TRAINING			
SESSION 1	SESSION 2	SESSION 3	SESSION 4	SESSION 5
Creating Builder	Using Builder	Builder 101	Training	Alpeta Server
Creating UI Project	Perspective	UI Control	Grid Feature / Data Search	UI Control
Web Project Environment	Creating Control and Layout	Data Component	Grid Control & Feature Training	Q & A
			User Component & Common Module	
			Dialogue	
			Embedded App	



Thank you.

