

BSA Technical Presentation

Technical presentation for CI/CD

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The general components for BSA Passwordless Integration

- 1. Customer's Application Web or/and Mobile
- 2. BSA Authenticator BSA App or Customer White Label with BSA service
- 3. Integration development BSA Web SDK or/and BSA Mobile SDK
- 4. User Onboarding Register User, Register Device and Site Link on Mobile App (BSA App or White Label

with BSA Service)





TREESE LINES.



1. USER ONBOARDING

Register New User for BSA:

System Integration

- 1. User to download BSA App or Customer Mobile App(@BSA Auth) for User and Device information registration.
- 2. Users to Site Link Web Applications in Authenticator App BSA App or Customer Mobile App(@BSA Auth)
- (User to approve Login request when prompted in User Mobile Device)

2. SYSTEM ONBOARDING

- 1. Customer Web Application development to integrate with BSA Web SDK for Passwordless login.
- 2. Customer Mobile Application development to integration with BSA Mobile SDK for BSA Onboarding, Passwordless Login, Authentication Approval / Reject)





Digital Banking X

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(Mobile Application with BSA Mobile SDK)

A. Pre-requisites:

- 1. Client Key: Key to be used for integration between Customer Web Application and BSA Web SDK
- 2. BSA Web SDK: To implement BSA by using JavaScript based BSA Web SDK into CI/CD environment

B. BSA Integration with Customer application

- 1. Customer Web Application needs to integrate with BSA Web SDK for Passwordless Login
- 2. The integration with BSA Web SDK (libraries, API, services) plus the Client Key assigned; will enable the Customer Web Application(s) to use BSA passwordless Authentication Service.
- 3. User registration: User require to download and register with BSA Authentication App, Site Link to Customer Web Application integrated with BSA for passwordless login

C. Authentication Methods:

- 1. Passwordless login:
 - a. Normal Authentication : Username authentication by keying in username only and then authenticate using BSA Authenticator App
 - b. QR Authentication: BSA QR code authentication by scanning the QR using BSA Authenticator
 - c. OTP Authentication: BSA in-app OTP authentication
 - d. TOTP Authentication: Offline authentication in a case where mobile phone does not have any internet connectivity



A. Pre-requisites:

- 1. Client Key: Key to be used for integration between Customer Web Application and BSA Web SDK
- 2. BSA Web SDK: To implement BSA by using JavaScript based BSA Web SDK into Customer Web Application
- 3. BSA Mobile SDK : To implement BSA by using iOS and aOS SDK into Customer Mobile App

B. BSA Integration with Customer application

- 1. Customer Web Application needs to integrate with BSA Web SDK for **Passwordless Login**
- 2. Customer Mobile Application need to integrate with BSA Mobile SDK for **BSA Onboarding and Passwordless Login**
- 3. The integration with BSA Web SDK and Mobile SDK (libraries, API, services) plus the Client Key assigned; will enable the Customer Web and Mobile Application to use BSA passwordless Authentication Service.
- 4. User registration: Customer is required to upload the Customer Mobile App (@BSA Authenticator) to respective App Store Providers. Users are required to download and register with Customer Mobile App (@BSA Authenticator) to onboard BSA Services. (Site Link can be optional in this case)

D. Authentication Methods:

- 1. Web Application and Mobile Application Passwordless login:
 - a) Normal Authentication : Username authentication by keying in username only and then authenticate using Customer Mobile App(@BSA Authenticator)
 - b) QR Authentication: BSA QR code authentication by scanning the QR using BSA Authenticator
 - c) OTP Authentication: BSA in-app OTP authentication
 - d) TOTP Authentication: Offline authentication in a case where mobile phone does not have any internet connectivity



A. Pre-requisites:

- 1. Client Key: Key to be used for integration between Customer Web Application and BSA Web SDK
- 2. BSA Mobile SDK : To implement BSA by using iOS and aOS SDK into Customer Mobile App

B. BSA Integration with Customer application

- 1. Customer Mobile Application need to integrate with BSA Mobile SDK for **BSA Onboarding and Passwordless Login**
- 2. The integration with BSA Mobile SDK (libraries, API, services) plus the Client Key assigned; will enable the Customer Mobile Application to use BSA passwordless Authentication Service.
- 3. User registration: Customer is required to upload the Customer Mobile App (@BSA Authenticator) to respective App Store Providers. Users are required to download and register with Customer Mobile App (@BSA Authenticator) to onboard BSA Services. (No Site Link for Mobile Application only installation)

D. Authentication Methods:

- 1. Mobile Application Passwordless login:
 - a) Normal Authentication : Username authentication by keying in username only and then authenticate using Customer Mobile App(@BSA Authenticator)









TRACTER LINES.















BSA Web Admin Portal (Browser)





- 1. BSA Web Admin Portal: https://web.fnsmalaysia.com/login
- 2. BSA aOS Mobile App (Authenticator): https://play.google.com/store/apps/details?id=com.fnsm.bsa&pli=1
- 3. BSA iOS Mobile App (Authenticator): <u>https://apps.apple.com/gy/app/bsa-authenticator/id6462007090</u>
- 4. BSA Web SDK Guide: <u>https://resource.fnsbsa.com/resource/BSA-Web-SDK.pdf</u>
- 5. BSA aOS SDK Guide: <u>https://resource.fnsbsa.com/resource/BSA-aOS-SDK-Guide.pdf</u>
- 6. BSA iOS SDK Guide: https://resource.fnsbsa.com/resource/BSA-iOS-SDK-Guide.pdf



CI/CD		
No	Description	Info
1	System and/or application Custodian	
2	List of IP addresses with hostname	
3	Current user use CI/CD service	
4	Potential number of users for the Pilot test	
5	Web application technology used	
6	List of OS	
7	List of API and/or system integration	
8	DB type and version	
9	System hosted (Location)	
10	API Gateway	
11	Directory Services Authentication (LDAP/ADFS)	
12	Current Deployment Environment	
13	Network Port	
14	Web Server	



Thank you!