

Token Activation in the Mobile Application

The application should support a deeplink configured in MDES. The deeplink should contain a `serialNumber` parameter in the query string.

Based on this value, the application should find the matching PassKit item using the `serialNumber` property. Then, it should call the TMP API endpoint:

```
POST /issuer/push-provisioning/tokens/activations
```

The request should contain the token identifier. If the response field `issuerMobileAppAuthResponse` is `APPROVED`, the card has been successfully activated. For `DECLINED` or `FAILED`, the activation was not completed successfully.

Process Overview

1. Receive the deeplink from MDES.
2. Extract `serialNumber` from the query string.
3. Find the matching PassKit item by `serialNumber`.
4. Read its `deviceAccountIdentifier`.
5. Send it to TMP API as `tokenUniqueReference`.
6. Handle the activation response.

Swift Example

```
import Foundation
import PassKit

enum ActivationStatus: String, Decodable {
    case approved = "APPROVED"
    case declined = "DECLINED"
    case failed = "FAILED"
}

struct TokenActivationRequest: Encodable {
    let tokenUniqueReference: String
}
```

```

struct TokenActivationResponse: Decodable {
    let tokenUniqueReference: String?
    let cardLast4Digits: String?
    let issuerMobileAppAuthResponse: ActivationStatus
    let comment: String?
}

func handleActivationDeepLink(_ url: URL) async throws {
    guard
        let components = URLComponents(url: url, resolvingAgainstBaseURL: false),
        let serialNumber = components.queryItems?.first(where: { $0.name == "serialNumber"
    })?.value
    else {
        throw URLError(.badURL)
    }

    let passLibrary = PKPassLibrary()

    guard let pass = passLibrary.passes().first(where: {
        $0.serialNumber == serialNumber
    }),
        let tokenUniqueReference = pass.secureElementPass?.deviceAccountIdentifier
    else {
        throw URLError(.cannotFindHost)
    }

    let requestBody = TokenActivationRequest(
        tokenUniqueReference: tokenUniqueReference
    )

    let url = URL(string: "<https://your-tmp-api-base-url/issuer/push-
provisioning/tokens/activations>")!
    var request = URLRequest(url: url)
    request.httpMethod = "POST"
    request.setValue("application/json", forHTTPHeaderField: "Content-Type")
    request.httpBody = try JSONEncoder().encode(requestBody)

    let (data, response) = try await URLSession.shared.data(for: request)

    guard let httpResponse = response as? HTTPURLResponse,

```

```
        httpResponse.statusCode == 200 else {
        throw URLError(.badServerResponse)
    }

    let activationResponse = try JSONDecoder().decode(
        TokenActivationResponse.self,
        from: data
    )

    switch activationResponse.issuerMobileAppAuthResponse {
    case .approved:
        // Card has been successfully activated.
        break

    case .declined, .failed:
        // Card activation failed.
        break
    }
}
```

Notes

- The deeplink format must match the configuration provided in MDES.
- The `serialNumber` value is used only to find the correct PassKit item.
- The activation request uses the token identifier obtained from the matching pass item.

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