# Atbash Octopus JWT Support

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### **Release Notes**

#### 0.5.0

1. First separate release from Octopus repository.

## Introduction

A first attempt for converting Java beans to and from a JWT. The code will be improved when Atbash Octopus has full support for MP JWT Auth spec and OAuth2/OpenId Connect.

In a second version, a better support for Cryptographic keys is planned. There is no support for JWE yet.

## Standard usage

Convert the Object data to JSON and Base64 encoded format.

Use the Object *data* as JWT payload, signed with a HMAC (Warning HMAC support will be changed in next release)

In the above example, the JWT has a custom header.

Instead of injecting the Encoder, it is also possible to instantiate the encoder directly.

```
JWTEncoder jwtEncoder = new JWTEncoder();
```

Converting the JWT (or Base64 encoded JSON) to an Object instance.

The following example converts a signed JWT.

```
@Inject
private JWTDecoder jwtDecoder;

@Inject
private JWKManagerKeySelector keySelector;

@Inject
private MPBearerTokenVerifier verifier;

JWTData<MPJWTToken> data = jwtDecoder.decode(token, MPJWTToken.class, keySelector, verifier);
MPJWTToken token = data.getData();
```

JWKManagerKeySelector → Selector of the key based on the id found in the header. In a next release, selector will work on multiple sources (JWK, PEM files and Java Key Stores)

MPBearerTokenVerifier → Optional verifier for validating the JWT.

TODO: Describe the default verifications.