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# Summary

This document explains the installation and use of package ims\_jwt\_encode\_pkg, which is created to facilitate the secure integration with CIMS web app.

The package is a Oracle PLSQL implementation of JSON Web Tokens (JWT) as defined in [https://tools.ietf.org/html/rfc7519[RFC7519]](https://tools.ietf.org/html/rfc7519%5BRFC7519%5D)

# Pre-requisites

In the Oracle database schema where the app that integrates with CIMS web app is installed,

The following privileges are needed:

1. Create database package
2. Execute DBMS\_CRYPTO package (provided by Oracle starting from the version 10gR1)

# Installation

1. Open SQL\*Plus
2. Log in as SYS, and grant execute on dbms\_crypto to the schema

e.g.

SQL>  grant execute on sys.dbms\_crypto to **XXXX**;  
  
Grant succeeded.

1. Log in as schema user
2. Execute ims\_jwt\_encode\_pkg.pls
3. Execute ims\_jwt\_encode\_pkg.plb

# How to Use this Package

1. Execute the following sql, replace parameter values with runtime values

e.g.

select ims\_jwt\_encode\_pkg.get\_cims\_url\_with\_token(

p\_url => 'http://brisbane.ims.com.au:8080/ords/f?p=100:6',

p\_mrn => 'TESTING',

p\_os\_user => 'FZHANG',

p\_user => 'Frank'

)

from dual;

Graphical user interface, text, application

Description automatically generated

1. The sql generates an URL, open the URL from calling app.