

Matrix Technical Support Mailer – 66

Importance and necessity of multi palm templates in PVR

Dear Friends,

This mailer will guide for enrolment of palm template in PVR

Introduction:

- ❖ COSEC PVR is Palm Vein Reader which uses vein pattern of palm as biometric credentials
- ❖ Vein pattern are very complex and internal to the body so such kind of biometric technology provides high security to the organization
- ❖ COSEC Palm vein reader uses IR sensor to capture the image of vein pattern
- ❖ Palm veins technology is contactless technology which consists of image sensing and software technology



- ❖ The palm vein sensor captures the infrared ray image of user's palm. The lighting of the infrared ray is controlled depending on the illumination around sensor and the sensor is able to capture the palm image



- ❖ Generally user can register both palms' images on the system
- ❖ As it is contactless and depending on the palm placement, false rejection ratio may increase
- ❖ To reduce this rate COSEC provides multiple palm templates (maximum 10 templates) support

Requirement:

- ❖ Generally, user can register single position for single palm
- ❖ In this contactless technology due to single position rejection ratio will be higher
- ❖ So to reduce this ratio, we can register multiple positions of a palm
- ❖ So whenever user shows his palm with different position, system will compare image with all referenced template so chances of palm rejection will be reduced

Method of enrolment in multi palm:

- ❖ In this method at first enrolment, user enrolls both the palms single time. Ensure that this first enrolment should be of good quality
- ❖ Now if user finds problem of rejection, again he should enrol both the palms one time without deleting existing palms (System will allow to do this)
- ❖ Repeat this method two or three times if user reports the problem and this will result in improvement

Advantages:

- ❖ Using multiple templates, user can reduce rejection ratio in contactless technology
- ❖ User can register 5 different positions for single palm in COSEC
- ❖ User can enrol 10 different positions of palm in COSEC which leads to minimum rejection ratio
- ❖ Reduce delay in verification and authentication

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