



OnTime

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Fingerprint Process Speed and Match Rate

Fingerprint Process Speed and Fingerprint Match Rate

Biometrics is a probabilistic science. There is a fingerprint match rate threshold value set by the system Super-Admin within the OnTime app, if the percentage match crosses that value it is called a 'match', and if it does not it is a fail or non-match.

Fingerprint Match Rate	<input type="text" value="70"/>	SUBMIT
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Capture and extraction also change with every presentation (presentation means every time a finger is placed on the fingerprint scanner). A user may place their fingerprint differently. Also, with seasons (wet in summers, dry in winters) the capture may be of different quality. Each fingerprint capture results in a different template, variation may be small, but it is there. Hence, it is not necessarily true that you will get a match every time.

There can be a multitude of reasons why you are not getting a match but if the fingerprint quality is not inherently bad, try reregistering as a first process in resolution.

Fingerprint Process Speed

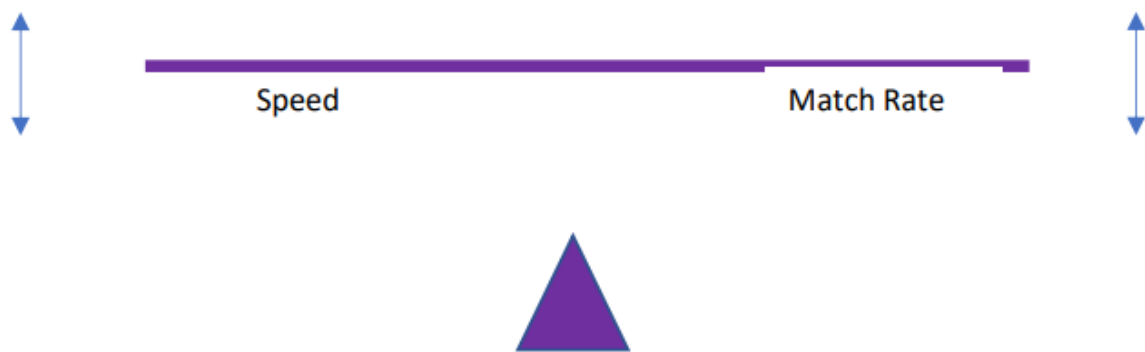
The OnTime software will in most circumstances complete the fingerprint matching process in less than 2 seconds, often under 1 second. This depends on the size of the user fingerprint digital template database within the OnTime app. The bigger the database the slower the matching rate.

End-to-End process, including the required actions by the user and OnTime app notifications will take 4-8 seconds per user event.

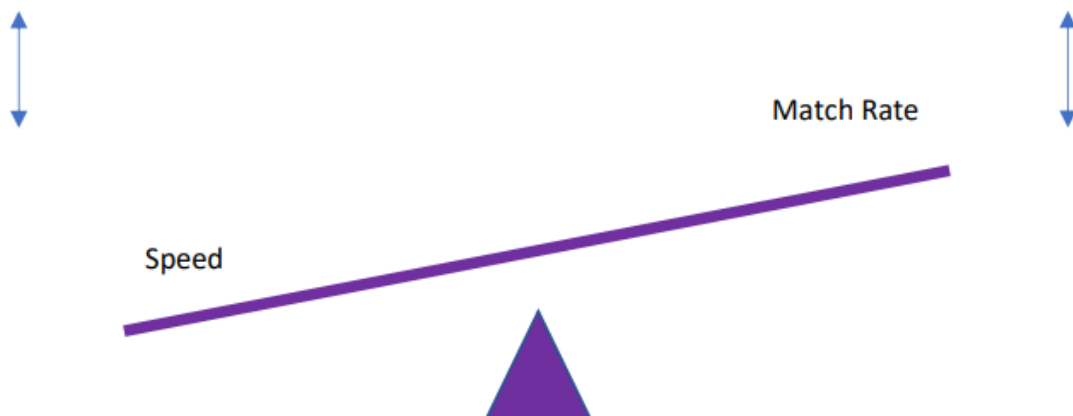
Fingerprint Match Rate

The OnTime software has a variable match rate that can be set within the Super Admin settings of the OnTime app. It is recommended that this is set to a minimum of 70%.

Speed Vs Match Rate



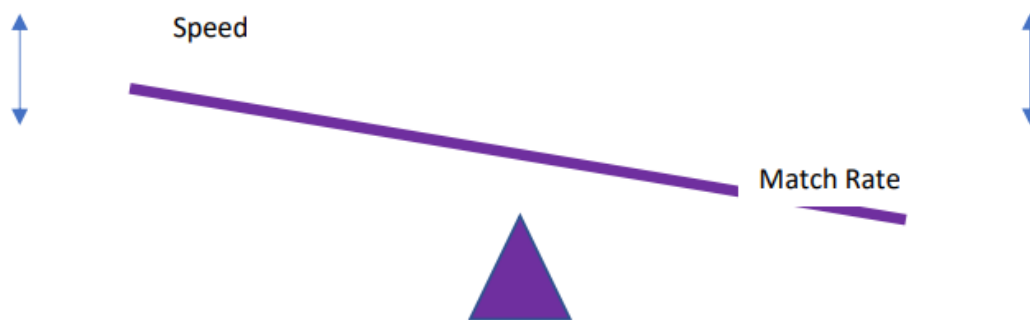
Should the requirement be more accuracy of fingerprint match or less chance of a mismatch then the match rate be increased in the Super Admin settings within the OnTime app



Consequences of Change:

- More chance of failed reads or non-matches
- Less change of mismatches
- Require the users to more diligent in placing their finger on the reader
- Slower Fingerprint Process Speed
- User will need to reregister the fingerprint when they encounter multiple fail reads

Should the requirements be quicker Fingerprint Process Speed over accuracy of Match Rate then the Match Rate should be decreased.



Consequences of Change:

- Quicker Fingerprint Process Speed
- The change of a failed of non-match will be decreased.
- The change of a user mismatch will be increased

Note: The OnTime app will process 4-7 users per minute depending on configuration and location.

For more advice, please contact Allocate/RLDatix Support Team or the Cube Purple Support Team.