

TID Rollover

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What is the TID Rollover?

The Token Identifier is a 24 bit field, contained in STS compliant tokens, that identifies the date and time of the token generation. It is used to determine if a token has already been used in a payment meter. The TID represents the minutes elapsed since the 1st January 1993. The incrementing of the 24 bit field means that at some point in time, the TID value will roll over to a zero value.

All STS prepayment meters will be affected by TID roll over on the 24/11/2024. Any tokens generated after this date and utilizing the 24bit TID will be rejected by the meters as being old tokens as the TID value embedded in the token will have reset back to 0.

In order to overcome this problem all meters will require key change tokens with the roll over bit set. In addition to this, the base date of 01/01/1993 will be required to be changed to a later date. This process will force the meters to reset the TID stack to 0. To avoid previously played tokens from being accepted by the meter due to the TID stack reset, the key change process must introduce into the meter a new decoder key.

What is STS6 / STS Edition 2?

The STS Association has developed a new vending algorithm that introduces a better vending key security. A new base date has been introduced (2014) to allow vending to take place after 2024 via the new vending keys. However, in order for meters out in the field to work with this new key (and TID starting point), it is necessary to change each meter key and to clear the TID memory in each meter. STS6 / STS Edition 2 compatible devices will function on Key Revision Number 2

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What is our solution?

The new GeniSys CRM System caters for KRN 2 tokens and will be able to handle the TID rollover.

All properties will be moved to our new CRM system. We will then decide on the way to display the tokens to the end user.

- **Via Mobi App**
 - Once the property has been moved to the new CRM system, a functionality will be activated where it will be seen as a new TID rollover site. When the end user purchases via the mobi app, they will receive 3 tokens. The first 2 tokens will be Key change tokens which will move the meter from KRN 1 to KRN 2. The third token will be the credit token to load the purchased units onto the meter. The tokens key change tokens will remain available to end user on the app under the TID / KCT icon
- **Via Bulk Upload**
 - Once the property has been moved to the new CRM system, a functionality will be activated where it will be seen as a new TID rollover site. Our admin team will generate a bulk sheet with the key change tokens for each unit on the property. The sheet will be shared with the property manager / landlord / estate manager who will facilitate inserting the tokens into the meter.
- **Via Webpage**
 - Once the property has been moved to the new CRM system, a functionality will be activated where it will be seen as a new TID rollover site. A link to a webpage will be available on our website where the end user can go and type in their meter number. If the property is KRN2 ready, the 2 x 20-digit tokens will display along with a test token to enter once the key change tokens are done.

In these scenarios, our help desk team, technical team and commercial team will be involved to ensure the transition process is smooth and that all meters are key changed to KRN 2

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Important items to note

- Some older STS prepayment meters may not accept the TID Rollover key change tokens and will need to be replaced.
- All prepayment meters need to be key changed before November 2024 in order to ensure that tokens are accepted in the meters.

Please visit www.sts.org.za/tid-rollover for more information on the TID Rollover.