

**IoT (Internet of Things) Connectivity** C

**Description**

**General IoT Overview** C

IoT is about collecting data and using it to make meaningful decisions. Connectivity, devices, applications, and data integration are the foundational elements that work together to deliver a successful IoT solution. IoT consists of using a device (e.g. sensor, metre, etc.) to capture an “event” (e.g. temperature, inventory level, location, environmental status, etc.), relayed through a network to an application, translating the event into meaningful information by an application (i.e. fleet management, tank level is low, etc.). C

This document only applies to IoT Connectivity customers using SaskTel’s Wireless Management Portal. N

**Service Description**

**SaskTel Wireless Management Portal** C

The SaskTel Wireless Management Portal is a self-serve web application portal. The Wireless Management Portal allows Customers to install, manage and control Subscriber Identity Modules (SIMs) provided by SaskTel for their wireless data devices. Functionality includes access to monitor operational status, support management and access statistics. C

Access to the SaskTel Wireless Management Portal is provided through an Internet URL address, and provides the following: C

- SIM Management (e.g.)
  - Order SIMs
  - Activate SIM pricing plans (subscriptions) C
  - Pause/terminate SIM pricing plans (subscriptions)
  - Change SIM pricing plans (subscriptions)
  - Data pooling
  - View service contracts/product offerings and pricing plans (subscriptions)
- Reports and Statistics (e.g.)
  - View usage information of devices D C
- Manage Account Profile (e.g.)
  - Change password
  - View account information C

**IoT (Internet of Things) Connectivity – continued**

C

**Subscriber Identity Modules (SIMs)**

A SIM card will be used in a data device (e.g. a wireless modem, module, etc.). IoT accesses provisioned through the SaskTel Wireless Management Portal are meant to be used to establish wireless connections between data devices in IoT solution environments. The Rugged SIM Cards for use with the SaskTel Wireless Management Portal are available in “standard” and “micro” form factors. The Non-Rugged SIM Card option is available in a “triple” punch form factor that can accommodate “standard”, “micro” and “nano” devices.

C

|  
|  
|  
|  
N  
|

Customers have two (2) delivery options when ordering SIM cards: Active or unactive.

C

Active SIM cards are shipped in Test Ready Mode. The SIM cards are provisioned on the rate plan selected during order and are ready to be used on the SaskTel network. Billing will not start until one of the Test Ready Mode thresholds have been reached.

N

|  
|

Deactivated SIM cards are shipped with all services blocked. The SIM state must be switched to active in the Wireless Management Portal in order to connect to the SaskTel network. Billing will not start until one of the Test Ready Mode thresholds have been reached.

C

|  
|

**Test Ready Mode Thresholds**

Data: 100 KB

N

D

|

SMS: 1 SMS

N

|

N

|

**Devices**

For a device to work on SaskTel’s network, the following minimum criteria must be met:

- Device must work on SaskTel’s supported frequency bands
- Device must have national and industry certification from:
  - PTCRB (PCS Test and Certification Review Board)
  - ISED (Innovation, Science and Economic Development Canada)

C

**IoT (Internet of Things) Connectivity** – *continued*

C

**Wireless Access Options**

<b>Option</b>	<b>Description</b>
IoT Connectivity	The base IoT Connectivity Service architecture leverages the SaskTel mobile network and public internet for transport of non-sensitive data from IoT terminals. Device addresses are assigned dynamically. Data communications is one-way from the devices to the internet (i.e. exchange of data traffic must be initiated by the IoT terminal).
IoT Connectivity with Static IP	If a customer requires two-way communication with IoT terminals, a static IP address provides direct access to the internet.
IoT Connectivity with Secure Wireless Connect – VPN Access	For applications where the IoT data is of a sensitive nature, or the devices need to communicate with internal endpoints located within the Customer's private network, the connection between the IoT terminal and Customer network can be encrypted through the use of a Secure Wireless Connect VPN riding over the public internet connection.
IoT Connectivity with Secure Wireless Connect – <i>LANSpan IP</i> <sup>TM</sup> Access	For applications requiring highly reliable communications, where delivery of the IoT data in a consistent and reliable manner is critical enough to warrant a dedicated connection between the terminal and Customer network, a private, dedicated, point-to-point connection (e.g. <i>LANSpan IP</i> ) can be created between the mobile IoT environment and the Customer's network.
Fully Customized IoT Implementation	For applications with special requirements which do not directly fit into the above models, a professional services design engagement can be used to assist the Customer in determining the ideal network architecture and customized solution to meet their specific requirement set. This option requires a Professional Services Design engagement and is subject to additional charges.

C

C

C

|

|

C

|

|

|

|

|

|

|

|

|

|

|

C

|

C

|

|

|

|

|

|

|

D

|

**IoT (Internet of Things) Connectivity – continued**

C

**Additional Features and Functionality**

**Data Pooling**

Data pooling is when each device within a Customer’s network has its own data plan but can share the total amount of data with all the devices on the same plan. All current SaskTel IoT Connectivity Price Plans are data pooled.

C

**Roaming**

The SaskTel IoT solution allows devices to communicate using the SaskTel wireless network. Devices may be used in Canada where SaskTel has partnered with compatible network providers.

C

**Short Message Service (SMS)**

***SMS Message Origination***

SMS Message Origination refers to the ability for an IoT terminal device to initiate a text message at any time.

C

***SMS Message Termination***

SMS Message Termination refers to the ability for an IoT terminal device to receive text messages.

C

Data Pooling and roaming within Canada are included in the charges for SaskTel IoT Connectivity (the “Service”).

C

If data usage in any month for a SIM activated by the Customer exceeds the data pool specified in a Service plan the Customer has chosen for that particular SIM, then excess usage charges will apply.

C

**IoT Free Trial Period**

The IoT Free Trial Period allows three free SIMs for two months to gain quick access to the Wireless Management Portal and cellular network in order to test the Customer’s IoT solution with the Service.

N M<sup>1</sup> D  
C	

**Terms and Conditions**

1. Customers must have a SaskTel Wireless Account in place, for monthly billing of IoT Connectivity service.
2. Standard IoT rate plans will be available and provisioned on the Wireless Management Portal and SaskTel’s billing system for Customers to choose from.

*M<sup>1</sup>-Moved from page 295*

**IoT (Internet of Things) Connectivity – continued**M<sup>1</sup> D**Terms and conditions – continued**

3. Customers must have a prime contact to manage their solution and be the single point of contact for SaskTel.
4. If the Customer decides not to continue with the IoT Connectivity service, they can cancel any time prior to the end of the two-month free trial otherwise billing will start on the rate plan they have chosen when the two-month trial date has been passed.

C

**SaskTel Wireless Management Portal & IoT Connectivity Service Terms & Conditions**M<sup>2</sup>**1. DEFAULT**

SaskTel has the right to suspend Customer's access to the Service to all users upon thirty (30) days prior notice to the Customer. The decision to suspend access to the Service is at SaskTel's complete discretion. If SaskTel has suspended access to the Service and Customer cures the default to SaskTel's satisfaction and SaskTel restores access to the Service Customer's administrator, Customer shall pay reconnect charges if any, as determined by SaskTel and Customer shall be solely responsible for re-establishing access to the Service for all Customer users. During any period of suspension of the Customer's access to the Service, Customer shall pay to SaskTel a fee of one dollar (\$1) per SIM per month for all of Customer's SIMs associated with the Customer's subscription to the Service.

**2. CUSTOMER PRIVACY**

SaskTel protects Customer's personal information in accordance with the SaskTel Customer Privacy Policy.

Customer consents to the sharing of account and profile information held about Customer by SaskTel with other SaskTel companies to help SaskTel better identify Customer's communication and entertainment needs, and to provide Customer with relevant information, advice and solutions.

Customer also consents to (i) SaskTel collecting information about Customer's credit history from another SaskTel company or a credit reporting agency, and maintaining and using information about Customer's credit history, to activate Customer's Service and assist in collecting amounts owed by Customer, and disclosing Customer's SaskTel credit history to other credit grantors and credit reporting agencies, and (ii) if Customer is a customer of another of the SaskTel companies, to receiving one bill for the Service and the services of the other SaskTel companies if and when such billing consolidation is available.

M<sup>1</sup> – Moved from 295  
M<sup>2</sup> – Moved from page 296

C

**IoT (Internet of Things) Connectivity – continued**M<sup>1</sup> D**SaskTel Wireless Management Portal & IoT Connectivity Service Terms & Conditions****1. DEFAULT**

SaskTel has the right to suspend Customer's access to the Service to all users upon thirty (30) days prior notice to the Customer. The decision to suspend access to the Service is at SaskTel's complete discretion. If SaskTel has suspended access to the Service and Customer cures the default to SaskTel's satisfaction and SaskTel restores access to the Service Customer's administrator, Customer shall pay reconnect charges if any, as determined by SaskTel and Customer shall be solely responsible for re-establishing access to the Service for all Customer users. During any period of suspension of the Customer's access to the Service, Customer shall pay to SaskTel a fee of one dollar (\$1) per SIM per month for all of Customer's SIMs associated with the Customer's subscription to the Service.

**2. CUSTOMER PRIVACY**

SaskTel also protects Customer's personal information in accordance with the SaskTel Customer Privacy Policy.

Customer consents to the sharing of account and profile information held about Customer by SaskTel with other SaskTel companies to help SaskTel better identify Customer's communication and entertainment needs, and to provide Customer with relevant information, advice and solutions.

Customer also consents to (i) SaskTel collecting information about Customer's credit history from another SaskTel company or a credit reporting agency, and maintaining and using information about Customer's credit history, to activate Customer's Service and assist in collecting amounts owed by Customer, and disclosing Customer's SaskTel credit history to other credit grantors and credit reporting agencies, and (ii) if Customer is a customer of another of the SaskTel companies, to receiving one bill for the Service and the services of the other SaskTel companies if and when such billing consolidation is available.

*M<sup>1</sup>-Moved from page 296*

*M<sup>2</sup>- Moved to page 293*

C

C

M<sup>2</sup>

**IoT (Internet of Things) Connectivity – continued**

C

**SaskTel Wireless Management Portal & IoT Connectivity Service Terms & Conditions – continued**

C

## 3. NOTICES

M<sup>1</sup>

SaskTel may use e-mail, text messages, telemarketing, phone, direct mail, voice mail or any other method which provides reasonable notice to Customer, to send Customer notices and changes under these terms and to inform Customer about products and services from SaskTel and related SaskTel companies that SaskTel thinks will interest Customer. Customer agrees to give SaskTel prompt notice of any change of name, address or telephone number.

## 4. ROAMING

If Customer roams on any other wireless carrier's network, Customer:

- a) Understands and agrees that it has no contractual relationship with the carrier whose network Customer is roaming on, and that Customer is not a third party beneficiary of any agreement between SaskTel and such carrier. Customer understands that the carrier has no obligation of any kind to Customer, and is not responsible for any problems Customer might experience while roaming on their network;
- b) Agrees that since the carrier upon whose network Customer is roaming has no responsibility to Customer, Customer cannot make any kind of claim against them, its officers, employees and agents, including without limitation claims for libel, slander, infringement of copyright, or personal injury or death arising in any way directly or indirectly in connection with these terms. This commitment survives the cancellation of the Service; and
- c) Understands and agrees that the services of the carrier upon which Customer roams are provided on an as is/as available basis and the carrier does not guarantee or warranty the performance, availability, coverage, uninterrupted use, security or operation of such services.

By using such other carrier systems, you agree to the provisions in subsections (a) to (c) of this Section. The services available for Customer's use while roaming on any other wireless carrier system are dependent on the services made available by any such other carrier on their network and the specific terms of the roaming agreement in place between SaskTel and any such carrier.

**IoT (Internet of Things) Connectivity – continued****SaskTel Wireless Management Portal - Terms of Use**

You understand and agree that your use of the SaskTel Wireless Management Portal (the “Service”) is your acceptance of and agreement to the terms of this Terms of Use. If you do not agree to such terms, then you should not use this Management PortalCentre.

**Changes to this Agreement and Terms of Use**

SaskTel reserves the right to make changes to the SaskTel Wireless Management Portal and these Terms of Use from time to time, as well as to discontinue the Service or a portion or attribute thereof offered through this Management Portal. SaskTel will communicate changes to this Management Portal, the Services it offers and/or to this Term of Use at IoT Connectivity Terms of Service. ([www.sasktel.com/iotterms](http://www.sasktel.com/iotterms)). You consent to SaskTel notifying you of any such changes (including terms of this Terms of Use) by email. If a change to this Management Portal, the Service or any feature thereof, or to these Terms of Use is unacceptable to you, you may discontinue your use of the Service. Your use of the Service after any such change, means you have accepted and agreed to such change.

**Access**

The Service is only available to users who have registered for use. You agree that the information you supply during the registration process is accurate and complete and you will update that information if it changes. You are responsible for any and all persons that use your access to the Service.

**Personal Information**

You represent to SaskTel that you have all consents and permissions that are required by applicable privacy law to provide to SaskTel any and all personal information that you provide as part of registration for access to this Management Portal and that may be used in conjunction with providing the Service to you.

*M<sup>1</sup>-Moved from page 298*

M<sup>1</sup>

C

C

C

C

C

C

C



**IoT (Internet of Things) Connectivity – continued****SaskTel Wireless Management Portal - Terms of Use – continued****Ownership**

The SaskTel Wireless Management Portal and the data accessed through it is the property of SaskTel. If you have been provided a user-name and a password by SaskTel you are granted a limited, non-sub-licensable and non-transferable right to access the Service and the data provided through it for your informational purposes only. You agree to keep your user credentials confidential and not to share them with any third party. This license is limited to your organization only. Any other party or entity or person must subscribe for separate access to the Service. You may not sell, lease, share, transfer, or sublicense your Service access, the access codes assigned to you or the data accessed through the Service to any third party, whether for direct commercial or monetary gain or otherwise, without SaskTel prior written permission.

**Use of the Service**

You may not use the Service in any manner or for any purpose that violates any law or regulation, any right of any person, including, but not limited to, intellectual property rights, rights of privacy, or rights of personality, in any manner that is harmful to SaskTel or in any manner inconsistent with these Terms of Use. You may not otherwise reproduce, modify, distribute, decompile, disassemble or reverse engineer any portion of the Service or any data provided by SaskTel or which you can access on the Service or create any derivative works from the Service.

**Service Limits**

You acknowledge and agree that SaskTel may impose or adjust the limit on the number of requests and transactions you may send or receive through the Service, at any time, in SaskTel's discretion.

*M<sup>1</sup>-Moved from page 299*

C  
M<sup>1</sup>  
C  
C  
D

**IoT (Internet of Things) Connectivity – continued**

C

**SaskTel Wireless Management Portal - Terms of Use – continued**M<sup>1</sup>

C

**Data**

You may not present data accessed through the Service so that it appears to be available from a third party.

**Term and Termination**

Your right to use the Service is on a month to month basis and may be terminated by you at anytime upon notice to SaskTel. SaskTel may immediately suspend or terminate your use of the Service without notice to you, if you fail to comply with these Terms of Use and/or any SaskTel policies that apply to use of the Service.

**No Warranty**

The SaskTel Wireless Management Portal, and the data accessed through it, are provided on an “as is” basis without warranties of any kind, either express or implied. You expressly agree that your use of the Service, including all data distributed, downloaded or accessed through the Service is at your sole risk. SaskTel does not represent or warrant that materials accessed through this Management Portal are accurate, complete, reliable, current or error-free.

C

C

**Limitation of Liability**

Under no circumstances will SaskTel be liable to you or any third party for any direct or indirect, incidental, special or consequential damages, expenses, costs, or losses, whatsoever (including, lost profits, lost revenue, loss of data, loss of use of any information system, failure to realize expected savings or any other commercial or economic loss), whether arising in negligence, tort, statute, equity, contract, common law, or any other cause of action or legal theory and even if SaskTel has been advised of the possibility of such losses or damages. You agree, acknowledge and confirm that the limitations of liability set out in this Section are fair and reasonable in the commercial circumstances of the Service and that SaskTel would not have provided the Service to you but for your agreement to limit the liability of SaskTel in the manner, and to the extent, provided for. SaskTel assumes no liability arising from your use of the Service in combination with any service, products, equipment or application provided by any third party other than SaskTel.

**IoT (Internet of Things) Connectivity – continued****SaskTel Wireless Management Portal - Terms of Use – continued****Waiver**

You agree that any claim or dispute you may have relating to or arising out of these Terms of Use or your use of the Service will be conducted individually and you will not commence or participate in any proceedings under class action proceedings legislation against SaskTel and you waive and abandon any right to do so as a condition of receiving the Service.

**Severability**

If any provision in these terms is determined to be void, invalid or otherwise unenforceable, such determination shall not affect the remainder of these Terms of Use .

**Governing Law**

These Terms of Use are governed exclusively by the law of the Province of Saskatchewan and the laws of Canada applicable in Saskatchewan without giving effect to Saskatchewan conflict of law principles.

**Entire Agreement**

These Terms of Use and any policy or document referenced herein or available at any site for which a link has been provided to you, constitutes the entire agreement between SaskTel and you regarding your access to and use of the Service.

**Rates**

IoT Connectivity Price Plans are highly competitive and subject to change. Please contact SaskTel for current rates.

*M<sup>1</sup>-Moved from page 301*

*End*

C

C

M<sup>1</sup>

C

(Reserved for future use)

N