SIEMENS

SIWA Blockage Predictor Package
Product Sheet

SIWA Blockage Predictor is an Insights Hub application which identifies sewer blockages. Artificial Intelligence is applied to level data for a Combined Sewer Overflow (CSO) or Manhole, providing advanced warning of abnormal behavior indicative of a blockage or forming blockage.
The SIWA Blockage Predictor Package consists of the Insights Hub application SIWA Blockage Predictor and selected Industrial IOT Resources which are required to access the Platform and to utilize the application.

Prerequisites	
Level data & connectivity	SIWA Blockage Predictor requires 15-minute resolution level readings from each Site. These data must be uploaded to an Account (Base Environment or Insights Hub Capability Package Account) using either a direct connectivity solution (e.g. a MindConnect IoT2040), or via a cloud-to-cloud transfer (e.g. MindConnect API's). Support with deployment of level sensors and Industrial IOT connectivity are not part of SIWA Blockage Predictor Package Base. These can be ordered from Siemens under separate terms and conditions.
Historical data	Configuration of SIWA Blockage Predictor requires unrestricted access to 15-minute resolution level readings for each Site. In some instances, historical data covering a minimum period of 6 months prior to the application installation date may be required for analytics configuration.
Asset location	SIWA Blockage Predictor requires location data for each Site either as Latitude and Longitude or as Easting and Northing coordinates.
Asset spill level	SIWA Blockage Predictor requires the level at which water reaches the overflow point and the asset begins to spill. This value can be estimated by SIWA Blockage Predictor; however, this may reduce the accuracy of analytics events and spill event monitoring.
Asset baseline level	SIWA Blockage Predictor requires the minimum level at which the asset operates under normal operating conditions. This value can be estimated by SIWA Blockage Predictor; however, this may reduce the accuracy of analytics events and spill event monitoring.
Local rainfall data	SIWA Blockage Predictor requires rainfall radar data to calculate analytics. For UK based Sites, Siemens uses an external provider for this information. Please contact the product team using the email address support.lighthouse.gb@siemens.com to discuss the provisioning of this data if: • You are not based in the UK, • You wish to use your own data source, such as an internal database.

Web browser	An up-to-date Chrome Internet browser with a screen resolution of 1920x1080 is required.
Configuration	SIWA Blockage Predictor application requires onboarding and configuration activities to ensure proper functionality. These are not part of SIWA Blockage Predictor Package and can be ordered from Siemens under separate terms and conditions.
Data access	To access and use the application, data stored in your existing Account (e.g. Base Environment or Insights Hub Capability Package Account) may be accessed by the application.

Description of SIWA Blockage Predictor Application

General	SIWA Blockage Predictor provides insight into spillages and potential blockages in CSO and Manhole assets in the form of events. These events are only provided as recommendations. Any decision, action or inaction taken as a result of these notifications is solely your responsibility.

Description of SIWA Blockage Predictor Application

Depending on your subscription (please see SIWA Blockage Predictor Package Overview), the following Industrial IOT resources are included in the SIWA Blockage Predictor Package and its extensions. These have been selected to ensure proper operation of SIWA Blockage Predictor application.

Base Environment	The Base Environment provides you with a dedicated Account (also referred to as "Environment") on Insights Hub. It enables you to login to your Account via the respective URL provided by us and is required for use of the application and Industrial IOT Resources. The Base Environment includes 1 000 Users and 25 Event Types and provides you with the following administration tools available on the Insights Hub Launchpad: • Usage Transparency: provides information regarding your consumption of Industrial IOT Resources. • Agent Diagnostic: allows you to activate and deactivate agent logfiles and to access them. • Settings: allow managing Users, permissions, rights, roles, groups, Collaborations and environment provider information. For every User, an individual login is required. Access policies are available only upon request. Insights Hub sales representative or Insights Hub Support to be contacted to enable use of access policies. Asset Manager: allows to onboard & offboard agents to your Account; to configure assets, asset types and aspect types; to manage the Sharing of assets under a Collaboration between Accounts using Cross-Tenancy. Upgrade: can be used to order available upgrades (incl. add-ons) to already subscribed. • Offerings; to get an overview of your requested and completed upgrades; to manage pending upgrade requests (authorized Users only).
Asset Attributes	For description of Asset Attributes resource please check our Glossary.
Time Series Data Ingest Rate	For description of Time Series Data Ingest Rate resource please check our Glossary.
Time Series Data Storage	For description of Time Series Data Storage resource please check our Glossary.
Events	For description of Event resource please check our Glossary.
File Storage	For description of File Storage resource please check our Glossary.
Notifications Email	For description of Notifications Email resource please check our Glossary.

SIWA Blockage Predictor Package Overview			
Application subscription	**SIWA Blockage Predictor Package Base**		
SIWA Blockage Predictor application	✓		
Base Environment[1]	✓		
Asset Attributes	20		
Events	1000		
File Storage	0.5 GB		
Time Series Data Ingest Rate[2]	0.001 KB/s		
Time Series Data Storage[5]	0.5 GB		
Asset subscriptions	**SIWA Blockage Predictor Package Asset extension**		
Asset subscription sizes	**5 Assets**	**25 Assets**	**100 Assets**
Asset Attributes	100	500	2000
Events	1 000	6 000	24 000
File Storage	0.5 GB	0.5 GB	0.5 GB
Time Series Data Ingest Rate[2]	0.01 KB/s	0.01 KB/s	0.04 KB/s
Time Series Data Storage[3]	0.5 GB	0.5 GB	2 GB
Notifications Email	1000	1000	1000

[1)] You can decide if a Base Environment shall be created and provisioned to you as part of your SIWA Blockage Predictor Package Base subscription or if the SIWA Blockage Predictor Package Base (without a Base Environment) shall be added to an existing Account (Base Environment or Insights Hub Capability Package Account). A Package can only be added to an existing Account if the Account and Package are hosted in the same data center location. If you decide to add various Packages to one existing Account, please note the following: The Industrial IOT Resources included in the various Packages will be combined under one Account; it is your responsibility to allocate the Industrial IOT Resources to the various Packages according to your needs. [2)] Data ingest rates are provided for 15 min resolution data. Higher data resolutions may require the purchasing of additional Industrial IOT resources; [3)] Time Series Data Storage capacity displayed above will suffice for data collected in the 1st year. Accumulating data beyond 1 year will require purchasing of additional Industrial IOT resources.

General	
Subscription Term	The Subscription Term for the SIWA Blockage Predictor Package Base is generally either 12 or 36 months. The Subscription Term for the extensions is 12 months. The Subscription Term shall automatically renew if set forth in the Order.
Co-term (renewal and termination)	The Subscription Term for any extensions will be co-termed with the Subscription Term of the SIWA Blockage Predictor Package Base and can therefore be shorter than the above mentioned standard Subscription Term. If a subscription of the SIWA Blockage Predictor Package Base is terminated, the associated extensions will also be terminated at the same time.
Payment terms	The subscription fee for SIWA Blockage Predictor Package is charged yearly in advance.
Service Level Agreement	The Monthly Availability for this application is 99.5%. Monthly Availability is defined in the Cloud Services Support and Service Level Framework available on https://www.siemens.com/sw-terms/sla.
Confidential Information	For the avoidance of doubt, the data provided by Siemens or generated as part of this Service constitutes our Confidential Information as this term is defined in the MMA. This includes, but is not limited to: • Rainfall data, • Neural network models, • Events generated by the application.
Third-Party Terms	The application contains third party services, including open source software, commercial software, or software related managed services, which are subject to additional or different terms, license rights, or require certain notices by their licensors, which we are obliged to pass on to you as your licensor and to which you agree to abide ("Third-Party Terms"). The Third-Party Terms are made

	available on https://www.sw.siemens.com/en-US/sw-terms/mindsphere-third-party-terms/ .
Support	The primary support channel is to e-mail support.lighthouse.gb@siemens.com with responses offered within business operating hours from Monday to Friday (8:00 am to 5:00 pm GMT) – excluding national and local holidays. The priority and escalation levels set out in 2.4 of the Cloud Support and Service Level Framework available on https://www.sw.siemens.com/en-US/sw-terms/sla/ also apply for this application.

Export Control Regulations

Applicable for SIWA Blockage Predictor application and Industrial IOT Resources.	
AL	N
ECCN	N

Security Information

General	In order to protect plants, systems, machines and networks against cyber threats, it is necessary that you implement and continuously maintain a holistic, state-of-the-art industrial security concept.

Definitions

CSO	Combined Sewer Overflow is a point in the sewage network where sewage and storm drainage systems are combined with an overflow to allow water to leave the sewage system in the event of a storm. This prevents overflows in other areas of the sewer network or damage to water treatment plants.
Manhole	In the context of the SIWA Blockage Predictor application, a Manhole refers to an access point into the sewer system with bifurcation. This is sometimes also known as a 'dual manhole'.
Site	In the context of the SIWA Blockage Predictor application, a Site is defined as an overflow point within a sewage network equipped with a level sensor, such as a CSO or Manhole.
General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this document or elsewhere in the Agreement. You may also want to check our Glossary.