

Swisscom Machine-to-Machine (M2M)

Application Enablement Platform

What is Swisscom M2M Application Enablement Platform (AEP)?

- Simplifies the remote management of devices, their configuration and firmware on one central management platform.
- Securely stores of all your sensor and device data in the Swisscom Cloud.
- Monitors sensed data, reporting and alarming based on graphical User Interfaces or API's based on XML, JSON, OPC.
- Intuitive platform that is easily leveraged for proprietary application development as well as existing applications.
- Complementary to the Swisscom M2M Connectivity Platform with gap-free communication at home and abroad (roaming with nearly 700 partners).

How you benefit

- **Simplicity:** You can focus on your core business, your product, while the Swisscom Application Enablement Platform ensures secure and reliable M2M data communication with the server.
- **Costs:** You profit from a Platform as a Service model (PaaS) which scales down your investment in IT infrastructure and operational resources.
- **Security:** Your sensor data is end-to-end secure by AES based encryption technology, from the sensor to the Cloud.
- **Service:** Configure critical business logic into the Application Enablement Platform and let your service, ERP or any other connected system be notified in real-time.
- **Availability:** You can rely on the easily accessed AEP portal while also having the confidence that your critical data is being stored reliably and securely in Switzerland and in the Swisscom Cloud.

Use mobile M2M communication solutions – securely, reliably, globally.



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Facts & Figures

10/2014

Service features

Data Transmission	Encrypted and compressed data transmission based on mobile network bandwidth and availability
Data Security	AES based end-to-end security, from the 'device agent' into the Swisscom Cloud
Data Storage	Encrypted storage in the Swisscom Cloud in Switzerland
Device Management	<p>Display and remote management of single, grouped devices or all devices. Display of data, configuration or firmware details, such as</p> <ul style="list-style-type: none"> - device configuration parameters, device status, device logging information, firmware versions with update history - device templates for simple configuration of identical devices - communication parameters, current signal strength and strength of surrounding antennas, communication history - definable data points (sensor data), actual and historic data consumption for data, SMS, voice - SIM management with activation, deactivation, pause and display of SIM related configuration and data
Firmware Update OTA	Update functionality for the communication device and application software, Firmware versioning and management
Alarming	<p>Alarming profiles with notifications based on availability (email, SMS, voice) and alarm acknowledge, reminder functionality</p> <p>Alarm push functionality with http-post, xml document sending, JSON string sending</p> <p>Automatic monitoring of connections in real-time, alerting in the event of misuse or malfunction</p>
User Interface	<p>Graphical user Interface with multiple customization levels, display of device pictures, maps, data information and device parameters</p> <p>Overview of data consumption of single and grouped devices, transaction details and statistics, access to configurable reports</p> <p>Visualisation of device positions on maps based on OpenStreetMap, zoom functionality, symbols for alarming, direct link to device details</p> <p>Creation of configurable reports, export of reports, periodic sending of reports to subscribed users</p> <p>Visualisation of with active elements, full screen modus for SCADA light applications</p>
User Management	User management with 7 levels to restrict access of different users to data and configuration, user statistics and logging
Pricing models	Flexible pricing models based on 'Pay as you go', 'Monthly Packages', 'Lifecycle Costs', 'Prepaid' or a combination of them
Billing	Automatic activation/deactivation of your SIM cards, billing only from start of effective usage (preliminary tests possible)
Business Logic	Programmable business logic to combine devices and their data
Labeling	Simple adaptation to corporate designs, integration of login screen into customer websites
API	API (Application Programming Interface) for remote access of data and configuration parameters via XML, REST.
Device Integration	Integration into a product based on the 'AEP Agent' (OS) or by connecting preconfigured communication devices

Options

Devices	Various devices or data loggers with the AEP Agent available
Professional services	Professional advice, implementation support through partner network

Application examples

Location/mobility info	Traffic jam information on navigation devices, fleet management, stolen vehicles etc.
Sensor network	Central gathering of sensor data from around the world
Remote Maintenance	Warning and diagnosis systems to deliver efficient and prompt action/notification when critical thresholds have been reached
Connected Cabinets	Information about fill levels, withdrawals and alarms to ensure the efficient management of logistic processes
Smart products	Full integration of Internet technology in devices and machi

Further information can be found at www.swisscom.ch/m2m

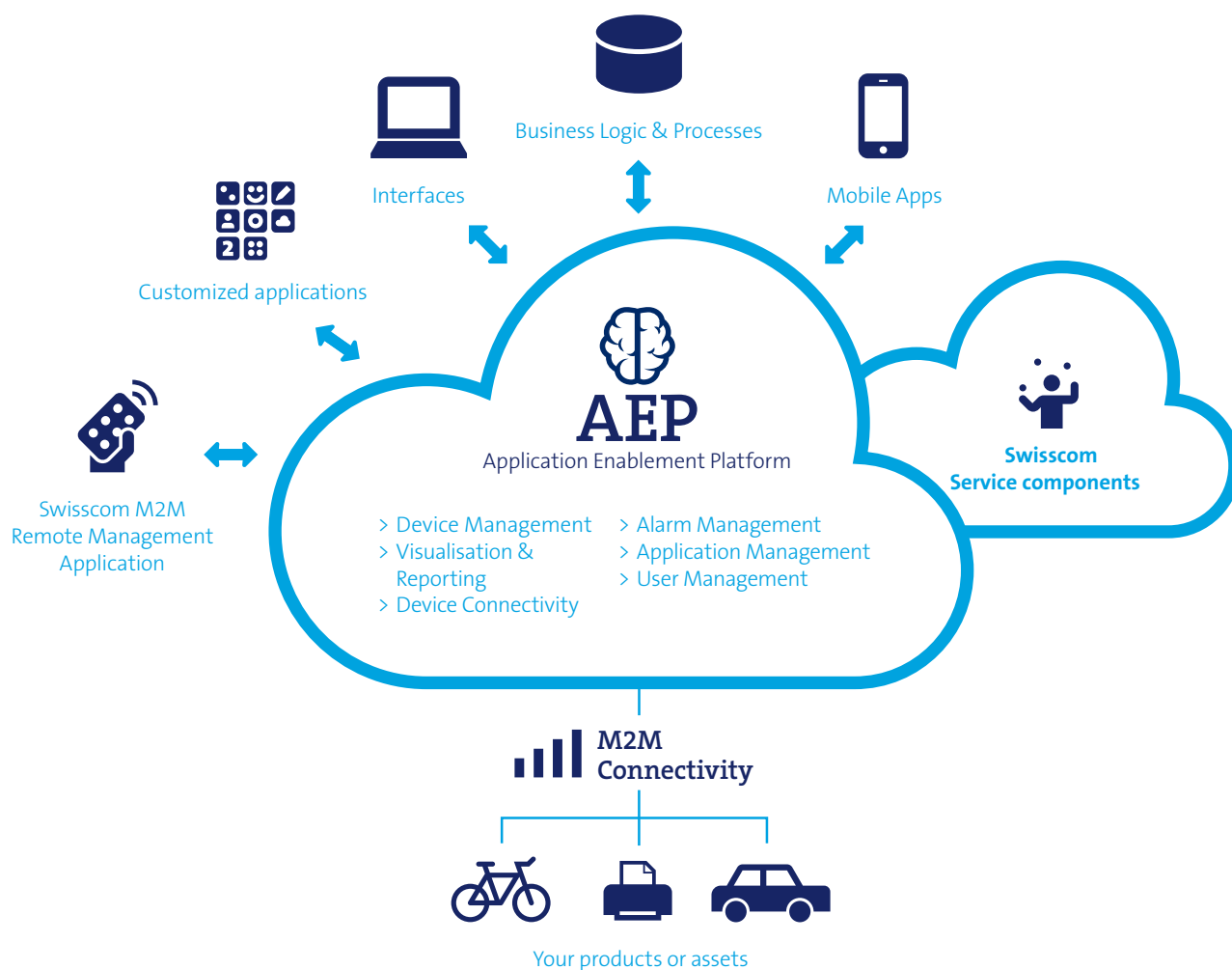
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