

Featuring the Chayn M2M Platform

With M2M and the Internet of Things becoming a mandatory part of any industrial manufacturer's growth strategy, everyone are looking for a means to enter the market. NeoConsult now offers the operators a state-of-the-art cost-effective M2M/IoT Platform, which cuts through the entry barriers, allowing operators to shift from connectivity providers to solution providers.

Introduction

With the transition to M2M, operators face new business models, especially within the Business to Business to Consumer pattern. Here industrial customers need, not only, connectivity but also a complete management platform with relevant supply chain functionality, automated provisioning, deep insight and advanced billing capabilities.

Due to the volume of M2M enabled devices shipped to customers over the coming years, M2M inherently sets a demand for automation in order to ensure firm quality standards and the lowest possible amount of handling and support costs. With Chayn M2M, automation is the core of the architecture using workflows to ensure a 100% degree of automation.



With M2M, devices are traditionally installed with mobile connectivity. However, in the IoT space, devices are more widespread in their means of communication, with fixed line communications being natural carriers. Chayn M2M supports both mobile and fixed communication networks in a clean homogenic and extensible architecture. In the following, we present some of the key concepts included in the Chayn M2M platform:

- Modular designed all-in-one multi tenancy platform
- Tenant hierarchies with automated replenishment via supply chain
- Sharing of integration points, resources pools and workflow packages between tenants
- One screen multi lingual GUI for all users
- M2M Gateway, establishing unified and secure networks between devices across all technologies.
- Ties together all IoT elements devices, applications, connectivity devices using standard protocols, leaving only extended configuration and monitoring to proprietary systems.
- Device management and monitoring
- Package based prepaid/postpaid billing
- Inter tenant invoicing
- Real time rating via Diameter feed
- Flexible solution with strong integration capabilities

In Chayn M2M large business customers get access to own tenants which enables management, provisioning, monitoring and invoicing of own customer base

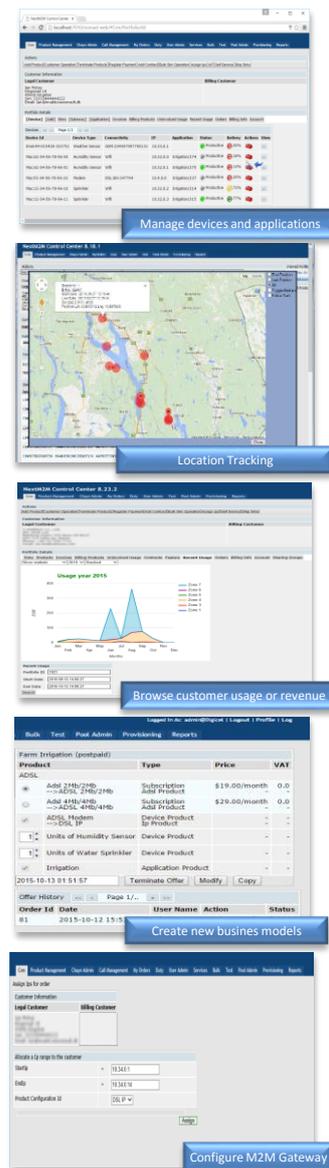
The CRM tab enables fast searching for customers, selecting one displays the customer portfolio as shown to the top right. Different tabs comprise the portfolio and its associated information. As default we show a converged view of all devices and applications including operating status, battery levels and connectivity information. An action menu offers deeper insights and various interactions including suspension of service or as shown below real time location tracking.

Real time location information is supplied directly via Diameter feed. Chayn M2M maintains a location cache including associated session information. Chayn M2M supports Geo-Fencing and is configured to automatically suspend devices moving out of geographical bounds. The accuracy of location information depends on the diameter data. Chayn M2M displays either an area or an exact location depending on the level of accuracy.

Chayn M2M includes data warehousing and offers BI insights directly from the CRM portal. A CSR can chose between different graphs, for example customer usage across Zones and customer revenue pr. month. Reports are generated per portfolio or per device and can be copied directly into a power point presentation.

The product management module allows the user to create new business models. Due to Chayn M2Ms unique architecture, services can be banded into offers and provisioning configured. Applications can also become part of an offer, enabling Chayn to register devices with their corresponding application, including handshaking IP addresses, as assigned by the M2M Gateway module.

Chayns M2M Gateway module facilitates unified communication between devices on any type of network. A crucial part of this responsibility is to manage the IP topology and create secured tunnels for data traffic.



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