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3M IoT Platform Documentation

IoT is driving new opportunities across all industries. The **3M IoT Platform on Azure** accelerates innovation by providing reusable services essential to every IoT solution. The platform's code name is **Serenity**. It's enterprise ready and built to scale.

Serenity's battle-tested services standardize administrative, operations, and support services. It extends Microsoft's [Remote Monitoring Accelerator](#) by adding robust CI/CD, multi-tenancy, threat protection, and many key features necessary for enterprise adoption.

To learn more about how it's being used at 3M, check out the [Use Cases](#).

3M IoT Platform on Azure

Conceptual Architecture



[Download Documentation](#)

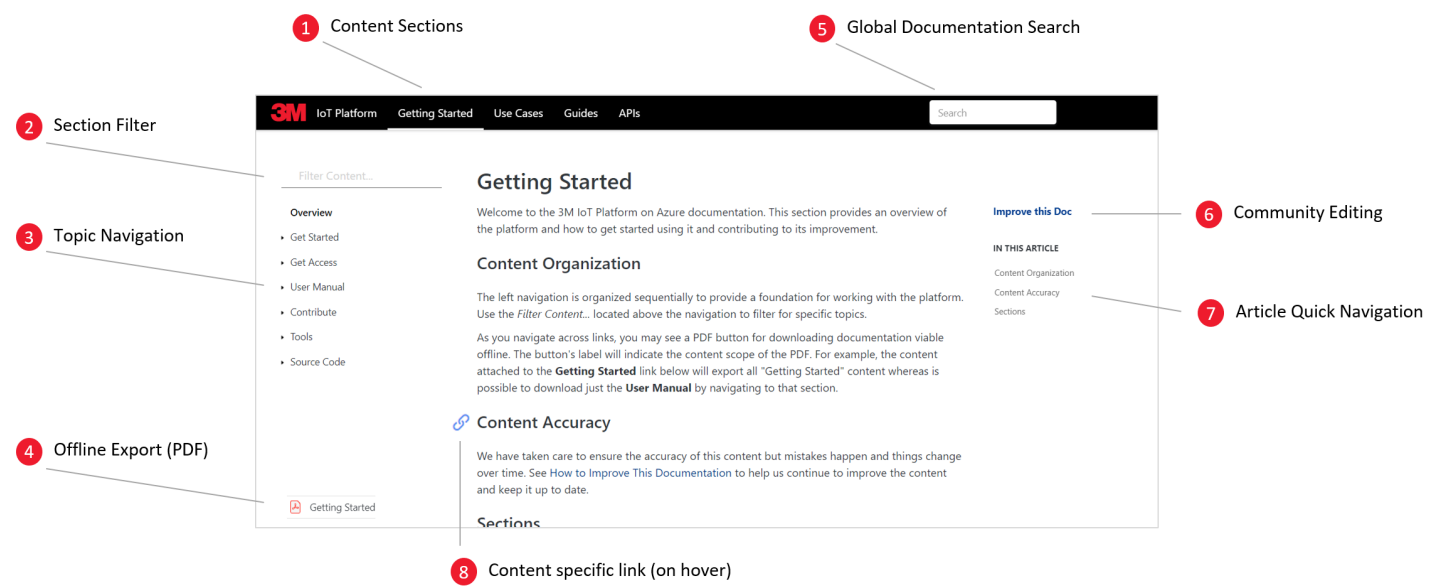


Getting Started

Welcome to the 3M IoT Platform on Azure documentation. This section provides an overview of the platform and how to get started using it and contributing to its improvement.

Layout

The left navigation is organized sequentially to provide a foundation for working with the platform. Use the *Filter Content...* located above the navigation to filter for specific topics.



Highlights

| | |
|--------------------|--|
| 1Content Sections | Documentation organized by purpose./td> |
| 2Search | Search across all documentation. |
| 3Filter | Search within section. |
| 4Topic Navigation | Navigate section topics. |
| 5Download PDF | Export content. Description specifies scope. |
| 6Community Editing | Help make improvements. |
| 7Quick Links | Navigate in current document. |
| 8Header Link | Bookmark link. Helpful when sharing. |

Download PDF Details

As you navigate across links, you may see a PDF button for downloading documentation viable offline. The button's label will indicate the content scope of the PDF. For example, the content attached to the **Getting Started** link below will export all "Getting Started" documentation. It is also possible to download just the **User Manual** by navigating to that to that topic [here](#), which changes to download scope to just the User Manual. In this case, the button's lable says User Manual to imply the change in scope.

Accuracy

We have taken care to ensure the accuracy of this content but mistakes happen and things change over time. See [How to Improve This Documentation](#) to help us continue to improve the content and keep it up to date.

Content Sections

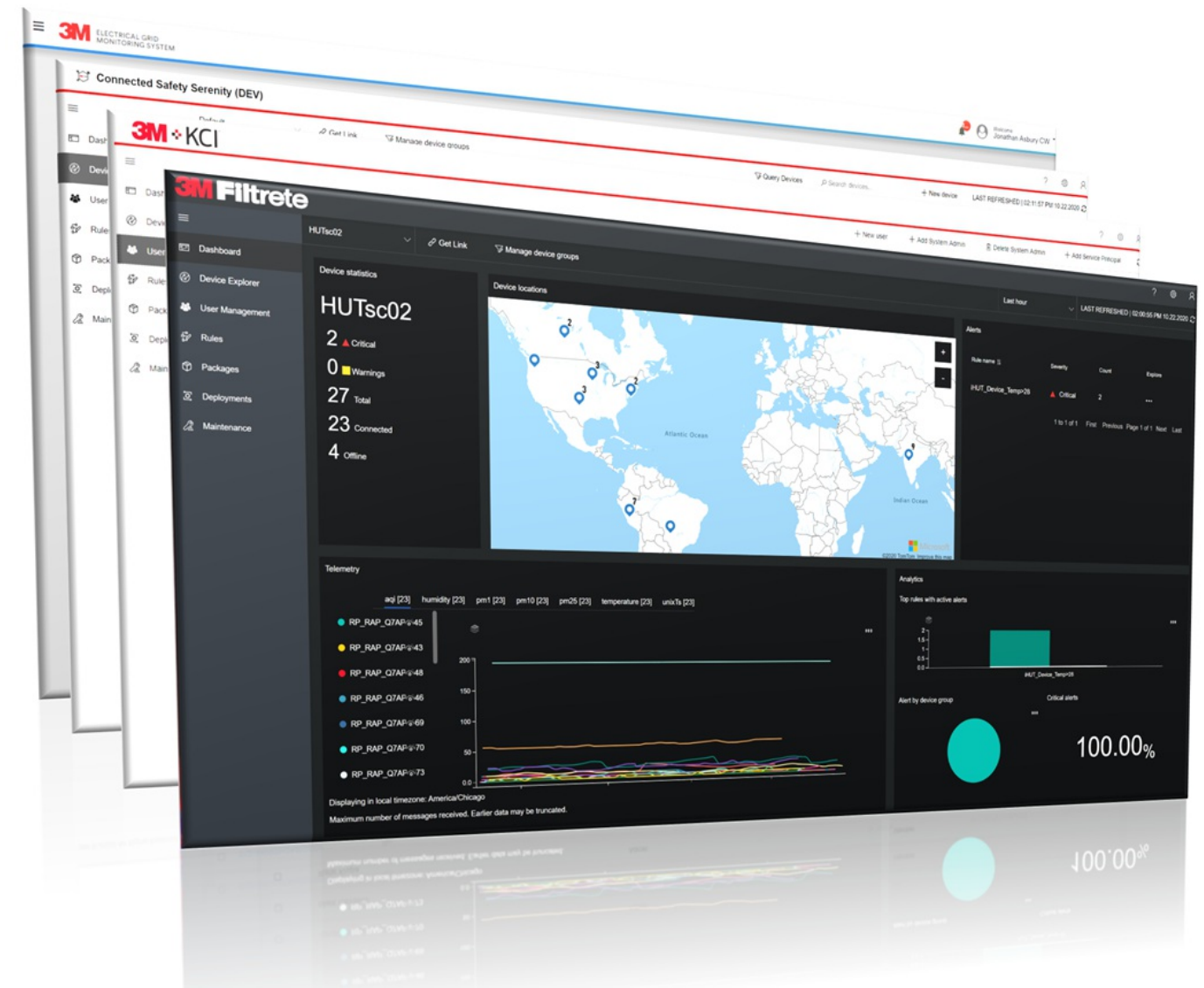
The top navigation organizes content into the following sections:

| SECTION | DESCRIPTION |
|-----------------|---|
| Getting Started | Introductory resources for those new to the platform |
| Use Cases | Examples of how the platform is being used at 3M. |
| Guides | Topics related to common questions and activities like how to manage devices. |
| APIs | Information about integrating the common services into custom solutions. |



TODO

- Provide a high-level overview of how 3M is using the IoT Platform
- Note: This is public content. InnerSource will have more specifics





3M IoT Platform Guides

Welcome to the public documentation on guides that cover common activities of working with the platform.

Here are shortcuts to commonly accessed documentation:

Device Management

[Add Device](#) [Organize Devices](#)

Users Management

[Add User](#) [Roles and Permissions](#)



Serenity Services and APIs: Overview

There are many services that expose [APIs](#) across the Serenity IoT Platform. This section describes the services, APIs, and how to use them.

Platform Services

This section provides reference information for the Serenity APIs. They conform to the [OpenAPI Specification](#). These services are exposed and can be used for system integration.

| | |
|----------------------------------|--|
| | |
| Identity Gateway | Authorization gateway service |
| IoTHub Manager | Manage Azure IoT Hub and devices |
| Tenant Manager | Tenant management and alerting services |
| Device Telemetry | Manage Alarms, Rules, Messages and Device Files |
| Config | Manage Packages, Device groups, Configuration types and Settings |
| Diagnostics | Logs the information |

To learn how to use the [Swagger UI](#) to interact with these services. [click here](#). To learn how to work with these services using other techniques, [click here](#).

Application Services

These services are are only accessible from within the platform. It's possible to contribute to directly to the platform and use these services from within. But these services are not available for external consumption and don't have swagger references.

| | |
|---------------------------------|-------------------------|
| | |
| ASA Manager | Data formatting service |
| Storage Adapter | Storage service |

Azure Services

The Serenity IoT Platform uses several Azure Services. Here is documentation about the services and their APIs.

| API DOCUMENTATION | PRODUCT DOCUMENTATION |
|---|--------------------------------|
| IoT Hub API | IoT Hub Docs |
| IoT Hub Device Provisioning | DPS Docs |
| Data Lake Storage API | Data Lake Docs |

| API DOCUMENTATION | PRODUCT DOCUMENTATION |
|-------------------------------|---|
| Cosmos DB API | Cosmos DB Docs |
| Key Vault API | Key Vault API |
| Stream Analytics API | Stream Analytics Docs |
| Time Series Insights API | Time Series Insights Docs |
| Identity Management (B2C) API | B2C Docs |
| Blob Storage API | Blob Storage Docs |
| Table Storage API | Table Storage Docs |