



Setup and Operations Guide for SAP Digital Manufacturing

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SAP Digital Manufacturing | latest

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Prepare for API Integration

Before you make API calls on SAP Digital Manufacturing, you need to complete some preparations. These preparations are required for third-party development and some system integration scenarios.

You need to prepare for integration in the following scenarios:

- Developing extensions for SAP Digital Manufacturing based on APIs published on the SAP Business Accelerator Hub
- Connecting to SAP Digital Manufacturing from another system (such as SAP S/4HANA) for inbound calls
- Running cloud processes you create in the [Design Production Processes](#) app
- Calling SAP Digital Manufacturing services (for example, [SFC Start](#) service) in cloud-based production processes

i Note

Hover over each step for a short summary. Click a step to navigate to a more detailed description; or right-click the step to open in a different window or tab.



Please note that image maps are not interactive in PDF outputs.

Related Information

[SAP Digital Manufacturing APIs](#) 

Rate Limits on API Calls

Understand why SAP Digital Manufacturing enforces rate limits on API calls and how to handle rate limit errors.

Why Rate Limits Are Enforced

SAP Digital Manufacturing enforces rate limits on API calls for these reasons:

- To safeguard performance and keep cloud infrastructure stability, ensuring you get consistent service.
- To prevent overload in backend systems. API rate limits, quotas, and concurrency controls manage the number and frequency of requests from each client, which protects backend services and maintains consistent response times for all

Rate Limit Details

- For all calls to the public APIs provided by SAP Digital Manufacturing, you can trigger up to 1,000 requests per second per tenant.
- For cloud processes in the Production Process Designer, you can trigger approximately 200 production processes per second per tenant. This limit applies to both standard production processes and processes published to the service registry that are executed by various triggers.

Consequences of Exceeding the Limit

If you sustain high traffic that exceeds the rate limit, you might experience performance degradation or unexpected errors. When the limit is significantly exceeded, you will receive the HTTP error code **429 Too Many Requests** as the response.

How to Handle Rate Limit Errors

If you get an HTTP 429 error, try again after a brief wait. You can also add retries with exponential backoff and handle errors gracefully to manage rate-limit exceptions. You can manually configure automatic retry settings or rely on the system's automatic retry for objects in the production processes. For details, see [Create and Define a Production Process](#). It's a good idea to apply resilient design principles when you develop extensions that call SAP Digital Manufacturing public APIs. For more information, see the [SAP BTP Developer's Guide](#).