

# Developer Guides

The developer guides show you how to use the public APIs, developer tools, and other developer features of the Frosmo Platform. These allow you to go beyond the Frosmo Control Panel when developing your Frosmo-enabled site, and to create your own client applications for interacting with the Frosmo Platform.

- [APIs](#) for interacting with the Frosmo Platform:
  - [Graniitti API](#) provides access to the data in the Frosmo back end. You can use the API to retrieve, create, update, and delete data for your company.
  - [Product API](#) allows you to retrieve product data from the Frosmo back end.
  - [Recommendations API](#) allows you to retrieve recommendation data from the Frosmo back end.
- [Connectors](#) for integrating with the Frosmo Platform:
  - [React Connector](#) allows you to integrate your React application with the Frosmo Platform, after which you can manage the display rules and content for your components from the Frosmo Control Panel.
- [Data tracking](#) solutions for your site:
  - [Custom event tracking](#) extends the basic tracking functionality of the Frosmo Platform by allowing you to track modifications beyond clicks, displays, and true displays.
  - [Frosmo data layer](#) is a global JavaScript array that allows you to send data from a web page to the Frosmo back end. Use the data layer to collect product and visitor data by tracking conversions and transactions, custom actions, and products.
- [Tools](#) for developing in the Frosmo Platform:
  - [FProxy](#) is a desktop application and a web proxy that allows you to develop and test modification content locally on your computer, outside the Frosmo Control Panel.

## Version history

Version	Publication date	Description
7.1	2020-04-01	Removed <b>Frosmo Debugger</b> . The tool continues its life as <a href="#">Frosmo Preview</a> .  Updated the FProxy guide to reference Frosmo Preview: <ul style="list-style-type: none"><li>• <a href="#">Introduction to modification development</a></li><li>• <a href="#">Starting and stopping the FProxy server</a></li><li>• <a href="#">Developing modification content</a></li><li>• <a href="#">Example: Creating a simple site banner</a></li><li>• <a href="#">Troubleshooting</a></li></ul>
7.0	2020-03-31	Added <a href="#">Shared code</a> .
6.17	2020-03-16	Updated the <a href="#">Graniitti API changelog</a> for API version 0.46.0.
6.16	2020-03-02	Updated the <a href="#">Graniitti API changelog</a> for API version 0.45.2.  Removed entries for Frosmo-internal releases from the <a href="#">Graniitti API changelog</a> .
6.15	2020-02-18	Updated the <a href="#">Graniitti API changelog</a> for API version 0.45.1.
6.14	2020-02-17	Updated the <a href="#">Graniitti API changelog</a> for API version 0.45.0.
6.13	2020-02-07	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.10.
6.12	2020-01-27	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.8.
6.11	2019-12-09	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.5.
6.10	2019-12-03	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.4.
6.9	2019-11-26	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.3.
6.8	2019-11-20	Updated modification-related documentation to conform to the new modification UI introduced in the <a href="#">Happy Valley</a> release.
6.7	2019-11-15	Updated the <a href="#">Graniitti API changelog</a> for API version 0.44.1.
6.6	2019-11-08	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.21.
6.5	2019-11-01	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.20.
6.4	2019-10-25	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.19.

6.3	2019-10-11	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.18.
6.2	2019-10-04	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.17.
6.1	2019-09-20	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.16.
6.0	2019-09-16	Added the <a href="#">React Connector guide</a> .
5.19	2019-09-11	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.15.
5.18	2019-09-06	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.14.
5.17	2019-09-04	Updated the FProxy guide: <ul style="list-style-type: none"> <li>• <a href="#">FProxy</a></li> <li>• <a href="#">Configuration</a></li> </ul>
5.16	2019-08-29	Updated the Frosmo Recommendations documentation: <ul style="list-style-type: none"> <li>• <a href="#">Recommendations</a></li> <li>• <a href="#">Recommendations API v2</a></li> </ul> Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.13.
5.15	2019-07-31	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.12.
5.14	2019-06-28	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.10.
5.13	2019-06-14	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.8.
5.12	2019-06-03	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.5.
5.11	2019-05-17	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.2.
5.10	2019-05-06	Moved the <b>Recommendations</b> guide to <a href="#">User Guides</a> .
5.9	2019-05-02	Updated the <a href="#">Graniitti API changelog</a> for API version 0.43.0.
5.8	2019-04-05	Updated the Frosmo Recommendations documentation for Recommendations API v2: <ul style="list-style-type: none"> <li>• <a href="#">Recommendations API</a></li> <li>• <a href="#">Recommendations API v2</a></li> <li>• <a href="#">Migrating to a new Recommendations API version</a></li> <li>• <a href="#">Creating recommendations</a></li> <li>• <a href="#">Retrieving recommendation data</a></li> </ul> Updated <a href="#">Collecting data with the data layer</a> . Updated the <a href="#">Graniitti API changelog</a> for API version 0.42.3.
5.7	2019-03-11	Updated the FProxy guide: <ul style="list-style-type: none"> <li>• <a href="#">FProxy</a></li> <li>• <a href="#">Introduction to modification development</a></li> <li>• <a href="#">Installation</a></li> <li>• <a href="#">Configuration</a></li> <li>• <a href="#">Starting and stopping the FProxy server</a></li> <li>• <a href="#">Developing modification content</a></li> <li>• <a href="#">FProxy CLI commands and parameters</a></li> </ul>
5.6	2019-03-08	Restructured and updated the data layer guide: <ul style="list-style-type: none"> <li>• <a href="#">Frosmo data layer</a></li> <li>• <a href="#">Collecting data with the data layer</a></li> <li>• <a href="#">Tracking conversions and transactions with the data layer</a></li> <li>• <a href="#">Tracking custom actions with the data layer</a></li> <li>• <a href="#">Tracking products with the data layer</a></li> </ul> Updated the <a href="#">Graniitti API changelog</a> for API version 0.42.2.

5.5	2019-01-31	<p>Updated the Frosmo Recommendations documentation:</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to recommendations</a></li> <li>• <a href="#">Creating recommendations</a></li> <li>• <a href="#">Retrieving recommendation data</a></li> <li>• <a href="#">Example: Recommending products purchased together</a> (including child topics)</li> </ul> <p>Updated the following API documentation:</p> <ul style="list-style-type: none"> <li>• <a href="#">Recommendations</a></li> <li>• <a href="#">Product API</a></li> <li>• <a href="#">Recommendations API</a></li> </ul>
5.4	2019-01-18	Added <a href="#">Example: Recommending products purchased together</a> .
5.3	2019-01-11	Updated the <a href="#">Graniitti API changelog</a> for API version 0.42.1.
5.2	2019-01-09	Site maintenance updates.
5.1	2018-12-10	<p>Updated the Graniitti API guide:</p> <ul style="list-style-type: none"> <li>• <a href="#">Getting started</a></li> <li>• <a href="#">Resources</a></li> <li>• <a href="#">Authentication</a></li> <li>• <a href="#">Requests</a></li> <li>• <a href="#">Responses</a></li> </ul>
5.0	2018-12-03	<p>Added the following new topics on the Frosmo Recommendations feature:</p> <ul style="list-style-type: none"> <li>• <a href="#">Recommendations</a> (Graniitti API reference)</li> <li>• <a href="#">Product API</a></li> <li>• <a href="#">Recommendations</a> (guide)</li> <li>• <a href="#">Recommendations API</a></li> </ul>
4.0	2018-12-02	<p>Restructured and consolidated the documentation for better usability by grouping the guides under the following new main topics:</p> <ul style="list-style-type: none"> <li>• <a href="#">APIs</a></li> <li>• <a href="#">Data tracking</a></li> <li>• <a href="#">Tools</a></li> </ul>
3.5	2018-11-28	Updated the <a href="#">Graniitti API changelog</a> for API versions 0.41.5 and 0.42.0.
3.4	2018-10-15	Updated the <a href="#">Graniitti API changelog</a> for API version 0.41.4.
3.3	2018-10-01	<p>Updated <a href="#">Frosmo data layer</a>.</p> <p>Updated the Graniitti API guide:</p> <ul style="list-style-type: none"> <li>• <a href="#">Getting started</a></li> <li>• <a href="#">Requests</a></li> <li>• <a href="#">Reference</a></li> <li>• <a href="#">Changelog</a> for API version 0.41.3</li> </ul>
3.2	2018-09-13	<p>Updated <a href="#">Custom event tracking</a>.</p> <p>Removed the <b>Downloads</b> page and the standalone PDFs.</p>
3.1	2018-09-05	Updated the <a href="#">Graniitti API changelog</a> for API versions 0.41.1 and 0.41.2.
3.0	2018-09-03	<p>Added <a href="#">FProxy</a>.</p> <p>Added <b>Frosmo Debugger</b>.</p> <p>Added <a href="#">Graniitti API</a>.</p>
2.0	2018-03-14	Added <a href="#">Custom event tracking</a> .
1.2	2017-11-29	Updated <a href="#">Frosmo data layer</a> .
1.1	2017-10-23	Moved the standalone PDFs from the front page to the <b>Downloads</b> page.
1.0	2017-08-17	First public version of this documentation.