

DSIO 3rd Party Integration Process Overview

UPDATE 2026

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Step 1: Understand the DSIO APIs

1. Visit the DSIO API Repositories

Navigate to the DSIO API repositories on GitHub to familiarize yourself with the APIs:

- a. [Modality API](#): Used to discover locally connected sensors and acquire images.
- b. [Filters API](#): Used to apply enhancements to acquired images.

2. Read the Wiki Sections

Explore the Wiki sections of each repository for comprehensive user documentation and helpful resources. These wikis are valuable for developers working on integrations and contain essential information on API usage.



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Step 2: Preparing for Integration

1. Obtain and Sign an NDA

Contact DPS-Developer-Support@dentsplysirona.com to obtain and sign a Non-Disclosure Agreement (NDA) for mutual protection. This step is crucial for gaining access to our development resources.

2. Kick-off Meeting Arrangement

Our team will arrange an optional kick-off meeting with you to clarify the integration process, discuss timelines, and confirm key points of contact if needed. This meeting provides an opportunity to get acquainted with each other and ensure alignment on project goals and expectations.

3. Request a Development API Key

After signing the NDA, we will generate a Development API Key specifically for your product. This key will enable you to perform development and testing with our APIs.

4. Download and Install IOSS

Gain access to our intraoral sensor software and development tools by completing the NDA process. These tools, collectively known as IOSS (Intraoral Sensor Software), are essential for integrating our APIs seamlessly.



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Step 3: Integration

Develop and Test Your Integration

Integrate both the Modality API and the Filters API into your product. Utilize the provided Development API Key to ensure seamless integration. Test your integration thoroughly to verify compatibility and functionality.

Additionally, we will provide you with a simulator to validate the integration in a controlled environment, ensuring robustness and accuracy.

Please ensure to have the following requirements implemented:

- ✓ For Schick 33 and AE resp. Xios XG Supreme and AE the filter “General Dentistry” with 70% sharpness value must be applied per default, all other filters have the following initial sharpness values: Endodontic / Periodontic / Hygiene: 70%, Restorative: 50%
- ✓ For Schick Elite resp. Xios Select the filters Smooth, EdgeLow, EdgeHigh and EdgePro must be implemented, the default setting is EdgePro
- ✓ Changing IO Enhancement Filters should be possible for our customers at any time (also at a later point in time)
- ✓ Usual acquisition time takes approx. 8 s. If it takes much longer in your implementation, please ensure to have following steps implemented: display preview image, then display unfiltered image, then display filtered image.
- ✓ “Hot swapping” of sensor during acquisition series should be possible without interruption of the software, please refer to the documentation in Github
- ✓ 16 bit image has to be used
- ✓ If an orientation marker should be implemented, please refer to the documentation in Github (optional)



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Step 3: Integration

2. Request a Demo of the Integration

Before finalizing the integration, we will request a demonstration of your integrated solution. This step allows us to review the functionality and ensure that it aligns with our expectations and standards.

3. Software and version of DSIO integration launch

Before obtaining the permanent Production API Key, please tell us the software and software version that includes the DSIO integration.

4. Finalize the Integration

Once the demo is approved, we will provide you with a Production API Key suitable for release with your product, ensuring seamless integration into your solution.

DO NOT install the software on customer site before obtaining the Production API Key.



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Step 4: Deployment, Quality Assurance & Support

1. Validate the Integration / ensure high-quality Sensor Image Quality

Once you have rolled-out the integration, we kindly request high-resolution (anonymized) intraoral X-ray patient images using Schick (North America) or Xios (all other countries) sensors. You may reach out to one or more customers and ask them to provide sample X-ray images from real patients captured with Schick 33 or Xios XG Supreme Sensors (Please ensure that patient images are anonymized and use the DICOM file format (un-binned) for sharing).

2. Support

For any questions or complaints after the completion of the integration process (milestone marked with the handover of the production key), please contact the customer support:

<https://sirona.service-pacemaker.com/guest/start/>

