

ProSightPD 4.3 Release Notes

These release notes briefly list changes in the ProSightPD™ nodes for Proteome Discoverer™ and known issues still existing in the ProSightPD nodes.

For additional information on ProSightPD, refer to the *ProSightPD 4.3 User Guide*.

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New Features

This release incorporates these new or enhanced features:

- Proteoform levels
- Delta M minimum fragment threshold

Enhanced features

- Database Manager Mass Limit Enhancement
- Increase Xtract deconvolution speed

Proteoform levels

A new column in the Proteoform result table classifying each result according to the Proteoform levels described by Smith et al. Nature Methods 2019.

Delta M minimum fragment threshold

A new parameter in the search node lets you set a minimum number of Delta M fragment ions required to return a Delta M result.

Database Manager Mass Limit Enhancement Node

Additional thresholds are now available to improve database creation.

Increase Xtract deconvolution speed

Xtract deconvolution is now 3 to 5 times faster depending on hardware.

System requirements

The following tables list the minimum and recommended hardware and software configurations for the ProSightPD operation.

Table 1 Minimum system requirements

System	Requirements
Data system computer	<ul style="list-style-type: none">• 2 GHz processor• 16 GB RAM• 75 GB available on C drive• NTFS format• Microsoft .NET Framework 4.8• Microsoft .NET Runtime 7.0.10• ASP .NET Core Runtime 7.0.10
Operating system	Windows 10 Professional or Windows 11 Professional

Table 2 Recommended system requirements

System	Requirements
Data system computer	<ul style="list-style-type: none">• 2.5 GHz or higher with multiple cores• 64 GB RAM• 1 TB boot and data SSD drives• NTFS format
Operating system	Microsoft Windows 10 with latest service pack

Installation

This section provides installation information.

General installation

The new standalone ProSightPD installer includes both the ProSightPD 4.3 installer and the compatible Proteome Discoverer 3.1 installer. The standalone installer installs only the required software. If the ProSightPD installer detects that the correct version of Proteome Discover 3.1 is already installed on your system, then only the ProSightPD 4.3 installer will be used.

The version of Proteome Discoverer 3.1 included with the ProSightPD standalone installer only supports the ProSightPD 4.3 nodes (Proteome Discoverer 3.1 viewer without any Proteome Discoverer nodes). Additional Proteome Discover 3.1 features are available separately. If you already have Proteome Discoverer 3.1, then you will still have access to existing licenses and features. For additional information about licensing, refer to the *Software installation and activation* section in the *ProSightPD 4.3 User Guide*.

Known Issues

Suggested recovery actions

If you encounter an unexpected error, reboot the application.

If the error persists, create a bug report (**Tools > Create Bug Report**) and email to prosightpdsupport@thermofisher.com.

Terminology

Risk	Interpretation
High	Occurrence is likely to happen and can compromise operation.
Medium	Occurrence is uncommon, but if it occurs, can compromise operation.
Low	Issue is minor; however, the software might operate differently from a user's expectations. A workaround is often available.
No Risk	This issue causes no problems, but is commonly an inconsistency or a cosmetic issue.

Known defects

The following table contains known defects in the software, categorized by software section, with a brief abstract and information related to each defect's severity and risk. Product management assesses risk, which can differ significantly from the reported severity.

Table 3 Known defects

Software section	Severity	Abstract	Risk
Workflow management	Medium	FDR cannot be calculated for workflows containing both Med/High and Hi/Hi data types. Split into two workflows.	Low
Fragment Match View	Medium	For larger proteoforms the fragment match view may load slowly.	Medium
No support for ETciD activation	Minor	Override auto and select EThcD.	Minor

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