

# PurΦPHI

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The online data management  
solution for Summit

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*A Finastra partner product*



**“With our growing business, both capacity and performance are constant concerns for us. We have onboarded PuriPhi to enable us to address both issues by shrinking our storage footprint across our environments as well as reducing our total trade/static population to gain improvements in both STP and batch performance.”**

System Owner – Summit, Major UK Retail Bank

## Situation without a viable Summit Data Management Framework

### Your Summit database size Increases

With years of accumulated market data, matured and cancelled trades, and huge volumes of unnecessary historical and audit records... without a data management policy, your database will continue to grow.

Of course some data is required for regulatory or retrospective analysis, but the vast majority is simply not needed for daily production use.

### Summit slows down

As the database continues to grow, your users notice reduced performance with unresponsive blotters and long-running reports and processes.

Your batch becomes slower with missed SLA's, and you may require your users to log-out earlier, or the system may be available later in the morning.

Your database maintenance, housekeeping and database backups take longer and longer.

Your system is less available at

weekends for releases, which themselves become slower to execute.

### Storage costs increase

You are constantly increasing the size of your production database, and in turn having to increase the size of your development and test environments when they are next refreshed, as well as finding space on the file system for larger and larger backup files.

### Your change projects are impacted

You fit fewer development and test environments than you used to on the same hardware.

Dumps and loads into test systems take longer, with fewer dump files possible keep on-line.

Database conversions, especially during upgrades, take longer and longer to run.

### Operational Risk increases

Performance degradation may result in critical functions being delayed, batch deadlines being missed, technical failures due to

missing file storage space or insufficient db space or network timeouts. *And the situation will continue to get worse.*

### Traditional mitigation strategies are unsuccessful and incompatible with Big Data objectives.

If you have a data management strategy at all, it is irrelevant without the necessary tools.

Maybe you take a backup at regular intervals, and simply delete data from production. *But each time you get a new offline database snapshot, with overlapping data sets that are impossible to re-combine.*

Maybe you have considered the TAS solution to dump data into XML files. *But these cannot be re-imported and are almost unusable.*

In any case, **your data has no value unless it is online**: you lack the ability to define and implement a data management strategy **without sacrificing the access you need to all your data**, “just in case”, or for easy and accurate data analysis..

## The solution is PuriPhi

- ✓ Your Summit data managed according to your bespoke requirements
- ✓ A necessary component of best-practice IT governance
- ✓ Reduces operational risk
- ✓ No loss of functionality or difference in user experience
- ✓ Compatible with your Big Data goals – all data remains online and available
- ✓ Significant performance improvements
- ✓ Up to 80% storage cost reduction

## Significant Performance Improvements

Reducing the size of the production database will also see a reduction in time taken to perform read and write operations on the database.

This in turn will lead to noticeable performance improvements for users (for example creating new trades or performing interest rate reset actions), as well as significantly improved batch and real time process performance.

## Up to 80% Savings on Data Storage Costs

Annual Summit data storage costs can run into hundreds of thousands of Euros. Summit estates typically comprise dozens of databases for development and testing activities.

Even with costs as low as €1 per month per GB, with a typical set of 40 dev/test environments exceeding 500GB, annual storage costs will be in excess of €240,000.

By using smaller database snapshots across all environments, savings of 80% can be realised.

## Simple Concept

PuriPhi works with any version of Summit, on any OS (Windows, Solaris, Linux) and on any database technology (SQL Server, Oracle, Sybase).

PuriPhi is a web application with a small database where you configure your archiving requirements. Data you do not need every day is copied by PuriPhi to an archive database, and then safely removed from production. The archived data is re-combined (virtually) using a View database.

When you make a data model change, either through a regular release or an upgrade, you simply run the conversion script on both the production database and the archive database, and PuriPhi will react to any data model changes. Both environments share your

production software tree, and the system date in the consolidated environment is always aligned with production.

## All Data Online

Most users will only ever access production, which will now be significantly smaller and faster. Users who occasionally need to see the archived data simply click a second Summit icon and they see everything, using the View database, as if archiving had never happened.

## No impact on Data Security

Your data security concept is unchanged: user access rights for the combined environment are inherited from production and do not need to be maintained separately.

PuriPhi itself has configurable user security so you can control who manages your archiving settings.

## Safe and Reliable

PuriPhi was designed specifically for Summit, by Summit experts: it is the only official Finastra partner product for Summit archiving.

PuriPhi takes into account your particular data model (including your own custom data entities), and your particular state transition.

You are in control of what you archive, depending how you use the system. But PuriPhi understands the data that is required for core system functions: Done and Verified trades will never be removed from production, and if you choose to archive interim historic versions, the system will always keep the last two authorized versions and the last two authorized versions that were active at the previous year end. And in a worst case scenario, PuriPhi maintains a full audit trail of everything that has been archived, and there is a roll-back facility.

*"PuriPhi is on the way to take away one third of our current data and reunite ten years of archived database snapshots. It allows us to rethink our view of historical data and it will greatly improve our daily testing environment and regular audit requests."*

# Flexible Criteria for Summit Data Management

Your archiving preferences are managed by you from the PuriPhi GUI according to your bespoke requirements

Trade Data	<ul style="list-style-type: none"><li>✓ by Trade Type and Trade Status</li><li>✓ full trade or interim versions only</li><li>✓ by retention period</li></ul>	<p>I want to archive Swaps that Matured or Cancelled more than 1 year ago. I have some Trade Related data for pricing results delivered to another system. This can be archived once the underlying trade is archived.</p>
Trade Related Data	<ul style="list-style-type: none"><li>✓ fully archived when trade is fully archived</li><li>✓ Archive and Delete, or Delete only</li></ul>	<p>I want to archive VOID and CANCEL documents after one year. I want to archive all documents once the underlying trade is also archived.</p>
Documents	<ul style="list-style-type: none"><li>✓ by retention period for VOID &amp; CANCEL</li><li>✓ fully archived when trade is fully archived</li><li>✓ Archive and Delete, or Delete only</li></ul>	<p>I will keep all my postings online, and only archive them when the underlying trade is fully archived.</p>
Postings	<ul style="list-style-type: none"><li>✓ by retention period for dmPOSTINGEVENT</li><li>✓ all posting data archived when trade is fully archived</li></ul>	<p>I will keep my yield curves with Id "OFFICIAL" for 2 years, and all other OFFICIAL market data for 1 year. Prior to that, I want to keep only month-end and year-end OFFICIAL curves. I will permanently delete all curves beginning with "TEMP" after 1 week; all other curves after 1 year..</p>
Market Data	<ul style="list-style-type: none"><li>✓ by Curve Id and Curve Type</li><li>✓ by retention period</li><li>✓ Archive and Delete, or Delete only</li></ul>	<p>I don't have a big issue with static data – I will just archive historical Customer and SSI records older than 2 years (retaining the current version). I may review my requirements for other static data archiving at a later date</p>
Static Data	<ul style="list-style-type: none"><li>✓ historical records only of auditable entities</li><li>✓ current record never archived</li><li>✓ by retention period</li><li>✓ with or without related STP Exceptions</li><li>✓ Archive and Delete, or Delete only</li></ul>	<p>I will archive all STP exceptions related to anything which I have also archived. I will also archive historical versions of exceptions (I only ever need the current exception).</p>
STP Exceptions	<ul style="list-style-type: none"><li>✓ optionally archivable alongside the archiving of the related Entity (Trades, Documents, Static Data)</li><li>✓ historical versions of Live STP Exceptions</li></ul>	



PuriPhi is a Finastra partner product and the only Summit Data Management Solution endorsed by Finastra.

**A clean, simple solution with clear advantages:**

- ✓ Configurable to your specific archiving requirements
- ✓ Safe and reliable with roll-back facility
- ✓ Two mechanisms optimised for either near-real time or batch archiving
- ✓ Audit trail for all archiving activities
- ✓ “Metadata aware” – compatible with your data extensions and upgrades
- ✓ Compatible with your State Transition Diagram: four-eyes / audit status aware
- ✓ Optional built-in scheduling, or use any external batch scheduling framework
- ✓ Integrated with native FT user security for Summit data access
- ✓ Seamless user experience via Summit GUI
- ✓ User security on archiving and scheduling configurations
- ✓ Intuitive and interactive dashboard showing status of archiving
- ✓ Option to permanently delete the data
- ✓ GDPR (Sunset) data removal
- ✓ Supports all Summit versions
- ✓ Supported on Oracle, Sybase and MS SQL Server
- ✓ Supported on Solaris, Linux and Windows
- ✓ Works with any Summit version – reacts to upgrades with no need to re-compile

*Unlock the power of PuriPhi: get in touch for further information on how our solution can bring real and measurable benefits to your Summit platform.*



For more information on PuriPhi or to  
arrange a demo or a proof of concept,  
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