

# What's New? SAP HANA SPS 07

## Fulltext Search

(Delta from SPS 06 to SPS 07)

SAP HANA Product Management

November, 2013



# Scope

---

## **The scope of the extended development topic “SAP HANA Fulltext Search” covers**

- Fulltext indexing
- Search models
- Fulltext search via SQL
- SAP HANA Info Access (InA)
  - SAP HANA Info Access (InA) toolkit for HTML5
  - Simple Info Access (SInA) API for JavaScript

## **Related topics**

- Fuzzy Search
  - Search Rule Sets
- Text Analysis

# Agenda

---

## What's new? SAP HANA SPS 07

- Improved capabilities
- New capabilities

## SAP HANA SPS 07 Fulltext Search Architecture



# Fulltext Search

# What's new? SAP HANA SPS 07 – Fulltext Search Improved Capabilities

---

## Enhancements to the datatype TEXT and SHORTTEXT

datatype TEXT/SHORTTEXT now provides the same search functionality as an “explicit” fulltext index, yet consumes substantially less memory compared to a NVARCHAR column + FULLTEXT INDEX for example

- asynchronous processing
- optional Text Analysis

## Fulltext indexing performance, up to 60% faster

**Additional options for FULLTEXT INDEX, e.g. specify list of token separators, change language detection settings**

## Fulltext search performance

- especially for fuzzy search and phrase search with patterns, e.g. “poly\* extrusion”



# What's new? SAP HANA SPS 07 – Fulltext Search

## New Capabilities

---

### Datatype BINTEXT

datatype BINTEXT provides the same search functionality as an “explicit” fulltext index, yet consumes substantially less memory compared to a BLOB column + FULLTEXT INDEX

- file filtering, converting binary file formats like .pdf to plain text
- optional Text Analysis

### NEAR operator for fulltext search

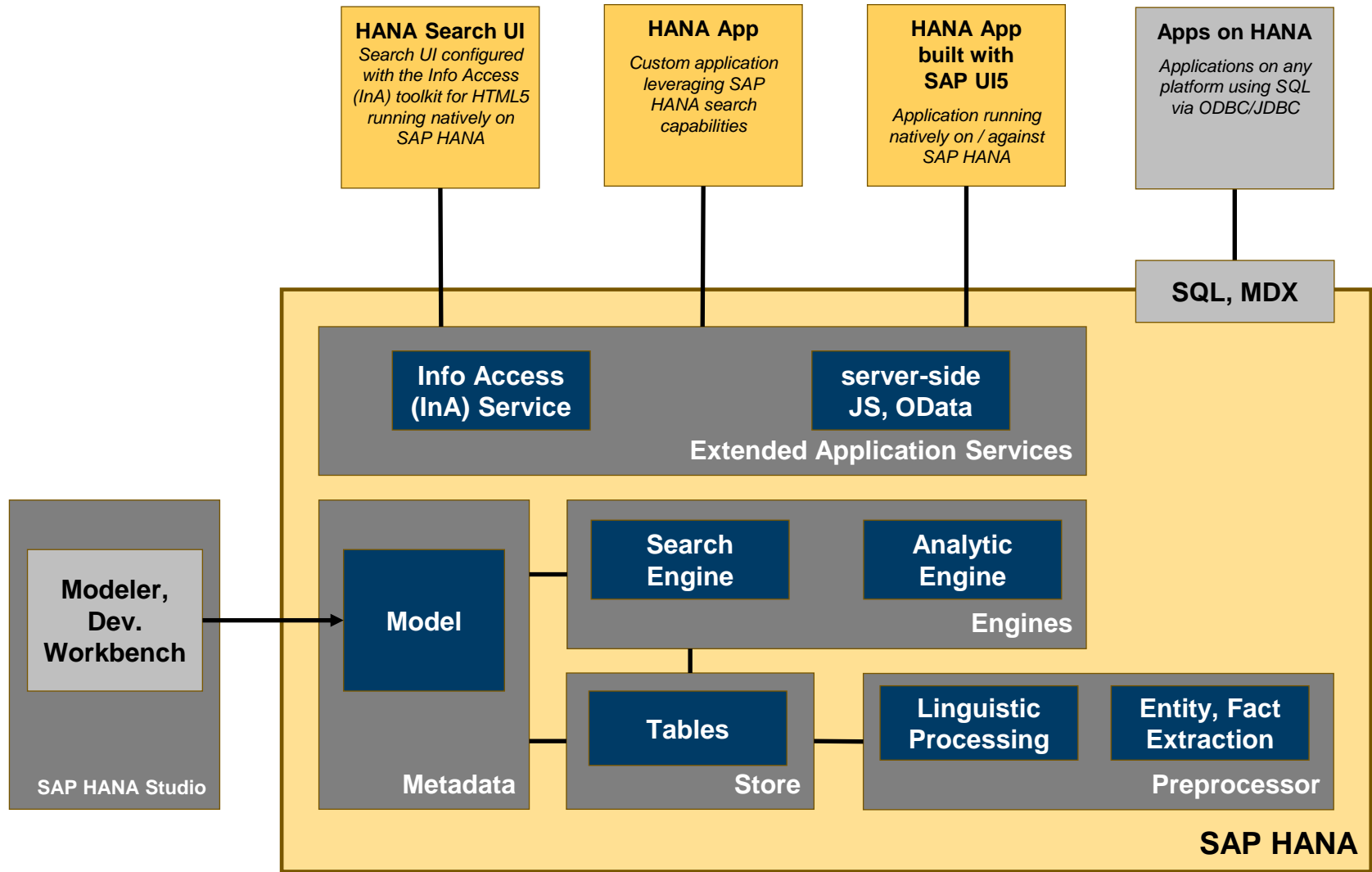
New operator to find documents where search terms appear within a specified window of n words

Example *SELECT \* FROM myDocuments WHERE CONTAINS (documentText, NEAR ((polymer, extrusion), 5));*

### Enhancements of the SAP HANA Info Access (InA) toolkit for HTML5

Leverage SNIPPETS/HIGHLIGHTED in InA toolkit UI

# SAP HANA SPS 07 – Fulltext Search Architecture



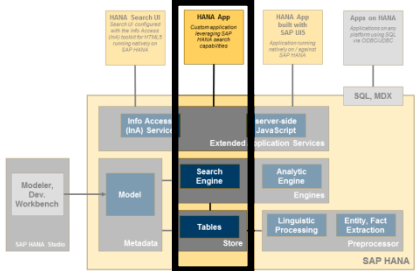
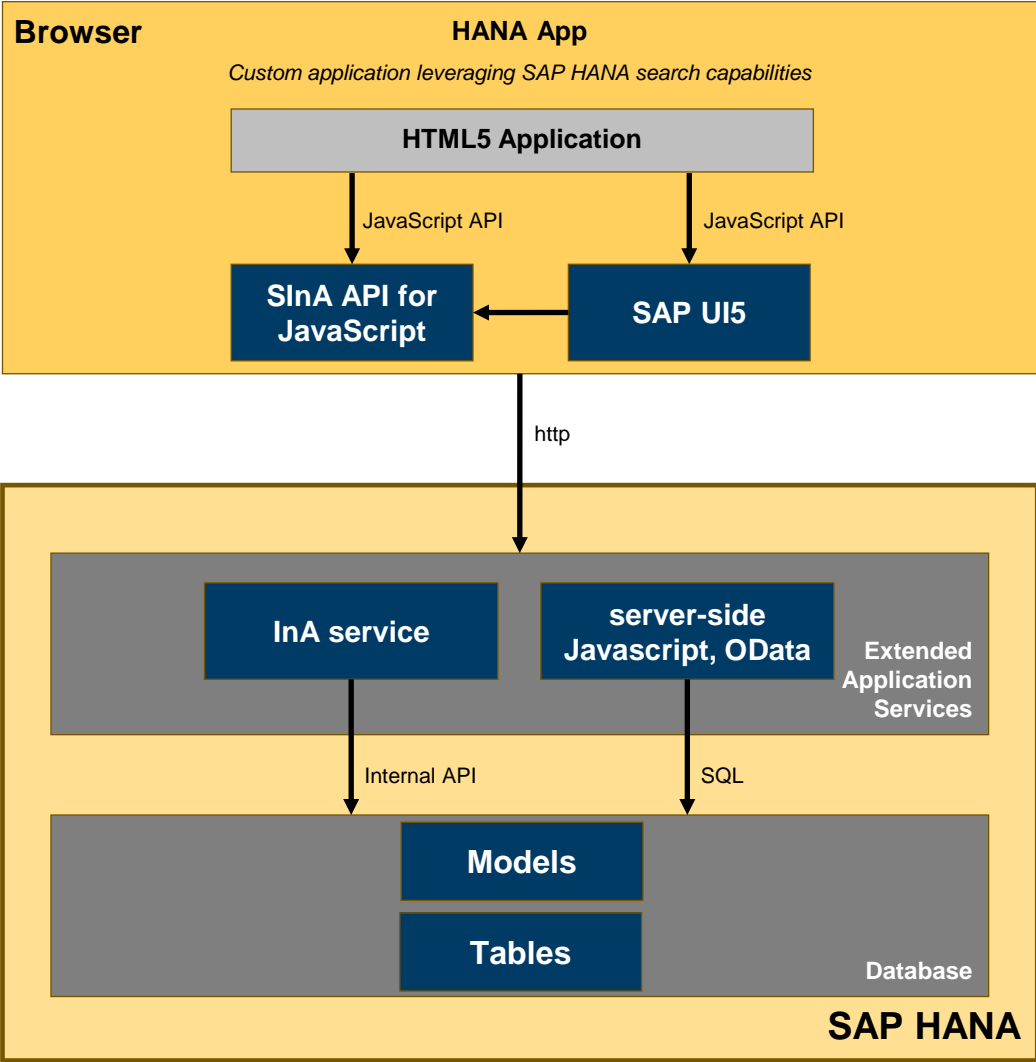
SAP HANA Info Access (InA) toolkit, SInA API for JavaScript

Fulltext Search via SQL

Search Models, Search Rule Sets

Fulltext Indexing, Text Analysis

# SAP HANA Simple Info Access (SInA) API for JavaScript





# Disclaimer

---

**This presentation outlines our general product direction and should not be relied on in making a purchase decision. This presentation is not subject to your license agreement or any other agreement with SAP.**

**SAP has no obligation to pursue any course of business outlined in this presentation or to develop or release any functionality mentioned in this presentation. This presentation and SAP's strategy and possible future developments are subject to change and may be changed by SAP at any time for any reason without notice.**

**This document is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP intentionally or grossly negligent.**



# Thank you

Contact information

Markus Fath  
SAP HANA Product Management  
[AskSAPHANA@sap.com](mailto:AskSAPHANA@sap.com)

*To get the best overview of what's new in SAP HANA SPS 07, read this [blog](#).*

# © 2013 SAP AG. All rights reserved.

---

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices.

# © 2013 SAP AG. Alle Rechte vorbehalten.

---

Weitergabe und Vervielfältigung dieser Publikation oder von Teilen daraus sind, zu welchem Zweck und in welcher Form auch immer, ohne die ausdrückliche schriftliche Genehmigung durch SAP AG nicht gestattet. In dieser Publikation enthaltene Informationen können ohne vorherige Ankündigung geändert werden.

Einige der von der SAP AG und ihren Distributoren vermarkteten Softwareprodukte enthalten proprietäre Softwarekomponenten anderer Softwareanbieter.

Produkte können länderspezifische Unterschiede aufweisen.

Die vorliegenden Unterlagen werden von der SAP AG und ihren Konzernunternehmen („SAP-Konzern“) bereitgestellt und dienen ausschließlich zu Informationszwecken. Der SAP-Konzern übernimmt keinerlei Haftung oder Gewährleistung für Fehler oder Unvollständigkeiten in dieser Publikation. Der SAP-Konzern steht lediglich für Produkte und Dienstleistungen nach der Maßgabe ein, die in der Vereinbarung über die jeweiligen Produkte und Dienstleistungen ausdrücklich geregelt ist. Keine der hierin enthaltenen Informationen ist als zusätzliche Garantie zu interpretieren.

SAP und andere in diesem Dokument erwähnte Produkte und Dienstleistungen von SAP sowie die dazugehörigen Logos sind Marken oder eingetragene Marken der SAP AG in Deutschland und verschiedenen anderen Ländern weltweit. Weitere Hinweise und Informationen zum Markenrecht finden Sie unter <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark>.