IBM i Enterprise ISVs
Trends and Directions

Mike Breitbach

mbreit@us.ibm.com

IBM i Development
Technology CEM

IBM i Enterprise ISVs Defined

- ERP = Enterprise Resource Planning

- Example Definitions

  - **Enterprise resource planning** (**ERP**) is business process management software that allows an organization to use a system of integrated applications to manage the business and automate many back office functions related to technology, services and human resources. (Webopedia)

  - The **acronym ERP** refers to the systems and software packages used by organizations to manage day-to-day business activities, such as accounting, procurement, project management and manufacturing. (Oracle)

  - An **ERP** system helps companies integrate and manage all their financial, supply chain, manufacturing, operations, reporting and human resources activities. (Microsoft)

IBM i Enterprise ISVs Defined

- Common Attributes:

    – Integration across suite
      of applications

    – Common, shared
      database / model

    – Online & Batch
      transactions

    – Common look and feel

    – Reporting & Query
      functions

IBM i Enterprise ISVs History

- System/38 and AS/400 were designed around business solutions

- Share many of the same common attributes as ERP

    - Integrated operating system

    - Relational database

    - Subsystems and work management

    - 5250 datastream for common user interface

    - RPG runtime and programming language

- IBM Rochester development & ERP = natural relationship

IBM i Enterprise ISVs History

- JD Edwards – founded 1977 by **J**ack Thompson, **D**an Gregory, **E**d McVaney
    - Initially focused on System/38 platform
    - JDE World initial solution (RPG, native files, 5250)
    - JDE OneWorld (EnterpriseOne) cross platform (C/C++, SQL, GUI)
    - Aquired by PeopleSoft, then Oracle

- SAP – founded 1972 in Mannheim Germany by five engineers
    - R/3 solution launched 1992 – ported to AS/400 1994 thru1996
    - Kernel based on C/C++, applications ABAP
    - SAP ECC launched 2005, adds Java applications
    - SAP R/4 - built around SAP's in-memory database (HANA)

- Infor – largest IBM i ISVS, built around acquisition of many solutions
    - XA (formerly Mapics), solution originally from IBM (RPG/Java/IDF)
    - LX (formerly BPCS), solution from SSA Global (RPG/SQL/ASSET)
    - Lawson (S3, LSF), built around generated RPG/COBOL and SQL
    - M3 (formerly Movex), solution from Intentia (RPG→Java/SQL)
    - LN, System/21, Infinium, A+, Sx.e, …

- Manhattan – founded 1990 in Manhattan Beach, CA around supply chain
    - Original solution PKMS, which ran on AS/400 (RPG)
    - WMi is the current largest solution, built around Warehouse Management

IBM i Development - Framework for Partner Support

Technical interlock
- Sync roadmaps
- Identify common projects

Port and test stack
- Completion of solution
- Reference architecture

Optimize stack
- Integrations with OS/DB
- Optimize run times/ data access

Perform benchmarks
- In lab workloads (eg Loadrunner)
- Publish results

Customer engagements
- Communicate (briefings / events / papers)
- Assist (implement / tune / resolve problems)

Business engagements
- Support marketing / sales / ecosystem

SAP®

ORACLE®
JD EDWARDS

infor

Manhattan Associates®

IBM i Development - Framework for Partner Support

Technical interlock

- Sync roadmaps
  - Ensure we support latest ISV function
  - Ensure ISV's support our latest OS
  - Ensure end of life plans "synchronized"
  - Examples: V6R1 end life, i 7.3 rollout

- Identify common projects
  - Technology adoption, both IBM & ISV
  - Examples: Java, PASE, iASP / PowerHA, SQL, SSD, Storage, POWER8, POWER9, PowerVM

Port and test stack
- Completion of solution
- Reference architecture

Optimize stack
- Integrations with OS/DB
- Optimize run times/ data access

Perform benchmarks
- In lab workloads (eg Loadrunner)
- Publish results

Customer engagements
- Communicate (briefings / events / papers)
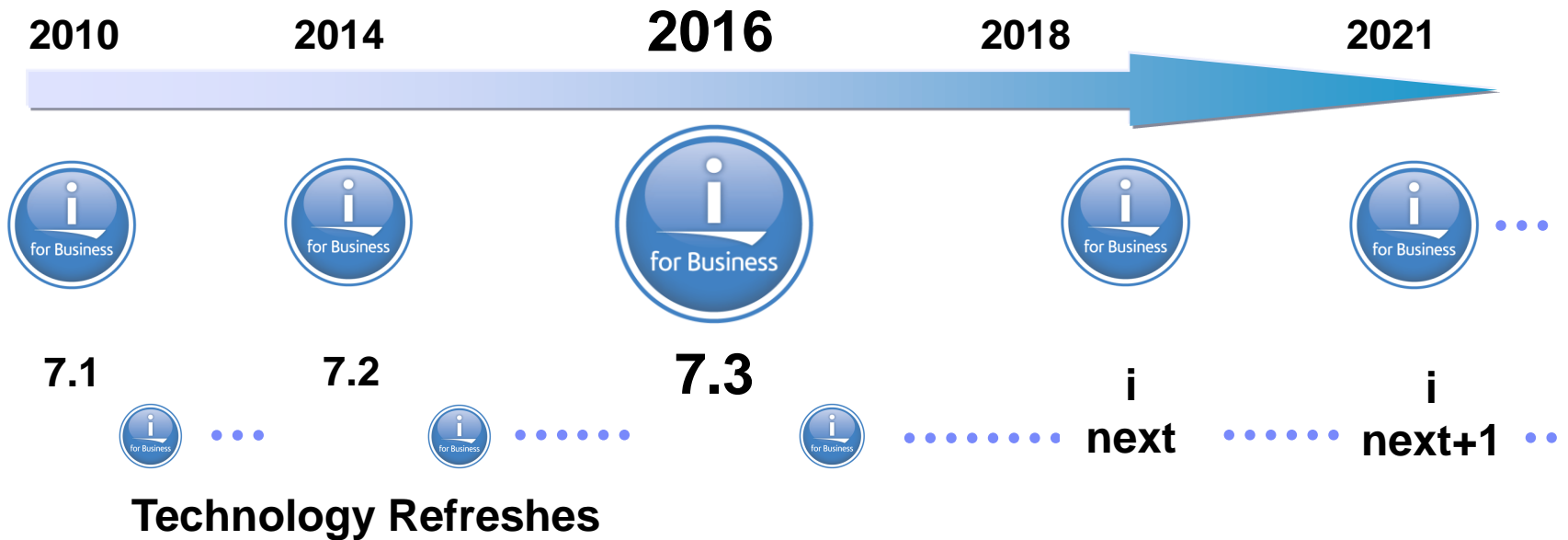- Assist (implement / tune / resolve problems)

Business engagements
- Support marketing / sales / ecosystem

SAP

ORACLE
JD EDWARDS

infor

Manhattan Associates

IBM i Release Roadmap

2010   **2014**   **2016**   **2018**   **2021**

7.1   **7.2**   **7.3**   **i next**   **i next+1**

Technology Refreshes

- Three Major Releases supported.
- Two Future Major Releases under development.
- Semi-annual Technology Refreshes for additional non-disruptive new function.

8

IBM i Support Roadmap
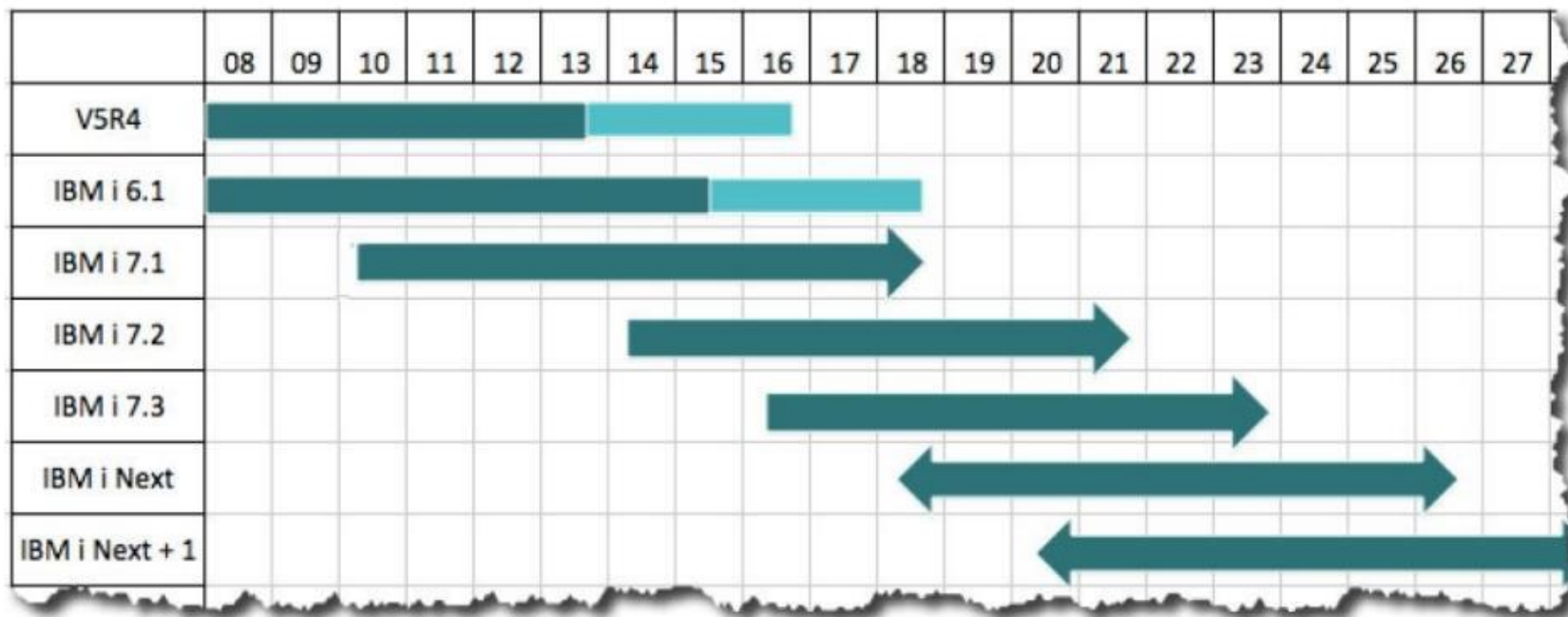
IBM i Support Roadmap:
Dark green indicates normal SWMA. Light green indicates extended support.

** Arrows indicate general timeframes, not specific dates.
** All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

IBM i Power Systems Support

Systems	IBM i 7.1	IBM i 7.2	IBM i 7.3
POWER8 S814, S822 (VIOS only), S824, E870, E880	✓	✓	✓
POWER7/7+ Servers Power 710, 720, 730, 740, 750, 760, 770, 780, 795	✓	✓	✓
POWER7/7+ Blades and Compute Nodes PS700/701/702/730/704, PureFlex p260/460	✓	✓	
POWER6+ 520, 550, 560, JS23/43 **POWER6** 520, 550, 570, 595, JS12/22	✓	✓ 1	
POWER5/5+ 515, 520, 525, 550, 570, 595	✓		

Note 1 – no IOP or HSL support

IBM i Development - Framework for Partner Support

Technical interlock
- Sync roadmaps
- Identify common projects

Port and test stack

- Completion of solution
  - Identify solution components
  - Deployment options (IBM i, AIX, Linux, Windows)
- Reference architecture
  - Publish best practices for deployment
  - Publish supported options for technology adoption
  - Tech Docs, Wiki Page

Optimize stack
- Integrations with OS/DB
- Optimize run times/ data access

Perform benchmarks
- In lab workloads (eg Loadrunner)
- Publish results

Customer engagements
- Communicate (briefings / events / papers)
- Assist (implement / tune / resolve problems)

Business engagements
- Support marketing / sales / ecosystem

SAP

ORACLE
JD EDWARDS

infor

Manhattan Associates

IBM i Power Systems and SAP

- SAP Business Suite for IBM i focus areas
  - SAP HANA In Memory Database
    - Optimization options around HANA drive IBM i database technologies (EVI only access)
    - BW data model changes provide significant performance benefit for IBM i clients
  - Other SAP on IBM i Optimizations
    - SAP on IBM i utilizes PASE environment, to share common technologies between IBM i and AIX environments
    - Detailed feature request process

- IBM i 7.3 fully certified by SAP, concurrent with GA in April 2016

- POWER8 enterprise servers for SAP
  - IBM i 7.1 TR10, IBM i 7.2 and IBM i 7.3 support
  - SAP customers drive high end workloads and support for 32c, 64c, larger partitions

SAP ®

POWER8

IBM i Power Systems and JDE (Oracle)

- **JD Edwards solutions for IBM i focus areas**
  - EnterpriseOne 9.1, 9.2 and older releases
    - Server Manager to monitor and tune system
    - Java/Web application server tier optimization
    - Data access optimization, remote clients
  - World 9.2, 9.3, 9.4 and older releases
    - Security enhancements around Row/Column access
    - Integration with PDF generation, client folders

- **IBM i 7.3 validation and support in progress (Denver testing)**
  - Latest WebSphere technologies, including WAS 9
  - Latest Windows integration with ACS validated

- **POWER8 scale-out servers for JDE**
  - IBM i 7.1 TR8, IBM i 7.2 and IBM i 7.3 support
  - 6c and 8c great fit for JDE customers
  - Proof points around integrated SSDs

IBM i Power Systems and Infor

- Infor solutions for IBM i customers includes
  - XA (Mapics)
  - LX (BPCS)
  - System 21 (Aurora)
  - M3 (Movex)
  - Lawson S3 (LSF)
  - A+, Infinium, …

- IBM i 7.2 & i 7.3 fully supported by Infor solutions (LX, M3, System 21, etc)
  - Latest Java technologies, including JDK 7.1, JDK 7.1.1, JDK 1.8
  - Optimizations for POWER8 including SMT8

- POWER8 scale-out servers for Infor
  - IBM i 7.1 TR8, IBM i 7.2 and IBM i 7.3 support
  - 4c to 24c provide great fit for Infor customers
  - Greater scalability in CEC I/O
  - Native support for fiber Storewize SAN

IBM i Development - Framework for Partner Support

Technical interlock
- Sync roadmaps
- Identify common projects

Port and test stack
- Completion of solution
- Reference architecture

Optimize stack
- Integrations with OS/DB
- Optimize run times/ data access

Perform benchmarks

- In lab workloads
  - New hardware (POWER8), new releases, both OS (i 7.3) & ISV
  - Identify areas for optimization
- Publish results
  - Formal publishes, historically
  - Proof points, ie M3 POWER8
  - Support marketing, competitive compares, sizings

Customer engagements
- Communicate (briefings / events / papers)
- Assist (implement / tune / resolve problems)

Business engagements
- Support marketing / sales / ecosystem

SAP®

ORACLE®
JD EDWARDS

infor

Manhattan Associates®

IBM i 7.2 Release Themes

- ## Solutions for Today's IT

  – Growth Areas: Mobile, Graphical & Extending Value

  – Delivering Capabilities where needed: Cloud & In-House

  – Applying POWER with POWER8

  – Powerful Advanced Middleware; Node.JS,Python,PHP

- ## Integrating Advanced Technology

  – DB2 Security, RCAC

  – Development Platform, Language Features & Tools

  – Integrated Security & Management; *DBSECADM

  – Growing Beyond the Limits
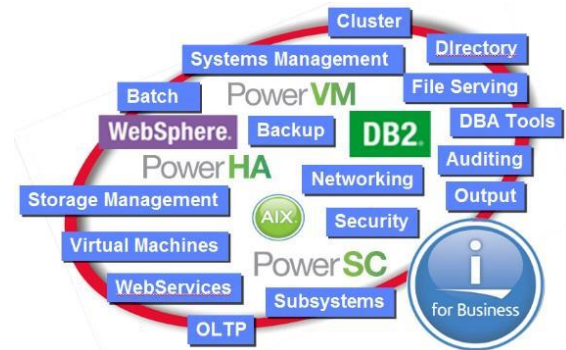
IBM i 7.3 Release Themes

- **Historical data simplifies business insights for the future**
  - ✓ DB2 Temporal support automatically maintains history

- **Intelligent Security matches actual authority with policy**
  - ✓ Authority Collection analysis ensures continuous operation

- **Simple, integrated data analysis for new insights**
  - ✓ OLAP enhancements built into DB2 for i

- **Extensive application development options**
  - ✓ Easy-to-learn RPG
  - ✓ Integrated Open Source development technology

IBM i Development - Framework for Partner Support

Technical interlock
- Sync roadmaps
- Identify common projects

Port and test stack
- Completion of solution
- Reference architecture

Optimize stack
- Integrations with OS/DB
- Optimize run times/ data access

Perform benchmarks
- In lab workloads
- Publish results

Customer engagements
- Communicate (briefings / events / papers)
- Assist (implement / tune / resolve problems)

Business engagements

- Support marketing / sales / ecosystem
  - Global alliance teams own the overall ISV relationship
  - IBM i development can help with technical questions, presales support
  - IBM i development can provide general Power Systems knowledge
  - Bridge to ISV development teams

SAP®

ORACLE®
JD EDWARDS

infor

Manhattan Associates®

IBM i Power Systems and ISV Solution Editions

- Latest versions of Infor software solutions …

- Latest IBM Power Systems technology …

- IBM technology discounts coupled with integrated Infor solution and services

- POWER8 S814 solution editions, 4c and 6c/8c

POWER8

IBM Systems > Power Systems > Hardware >

IBM i Solution Editions

Proven solutions

| Overview | Benefits | ISV software | Eligibility | Registration |

Together, IBM and leading ISVs provide solutions that combine the power of IBM Power Systems™ and IBM i with the strengths of business applications, along with superior services and support. You can benefit from:
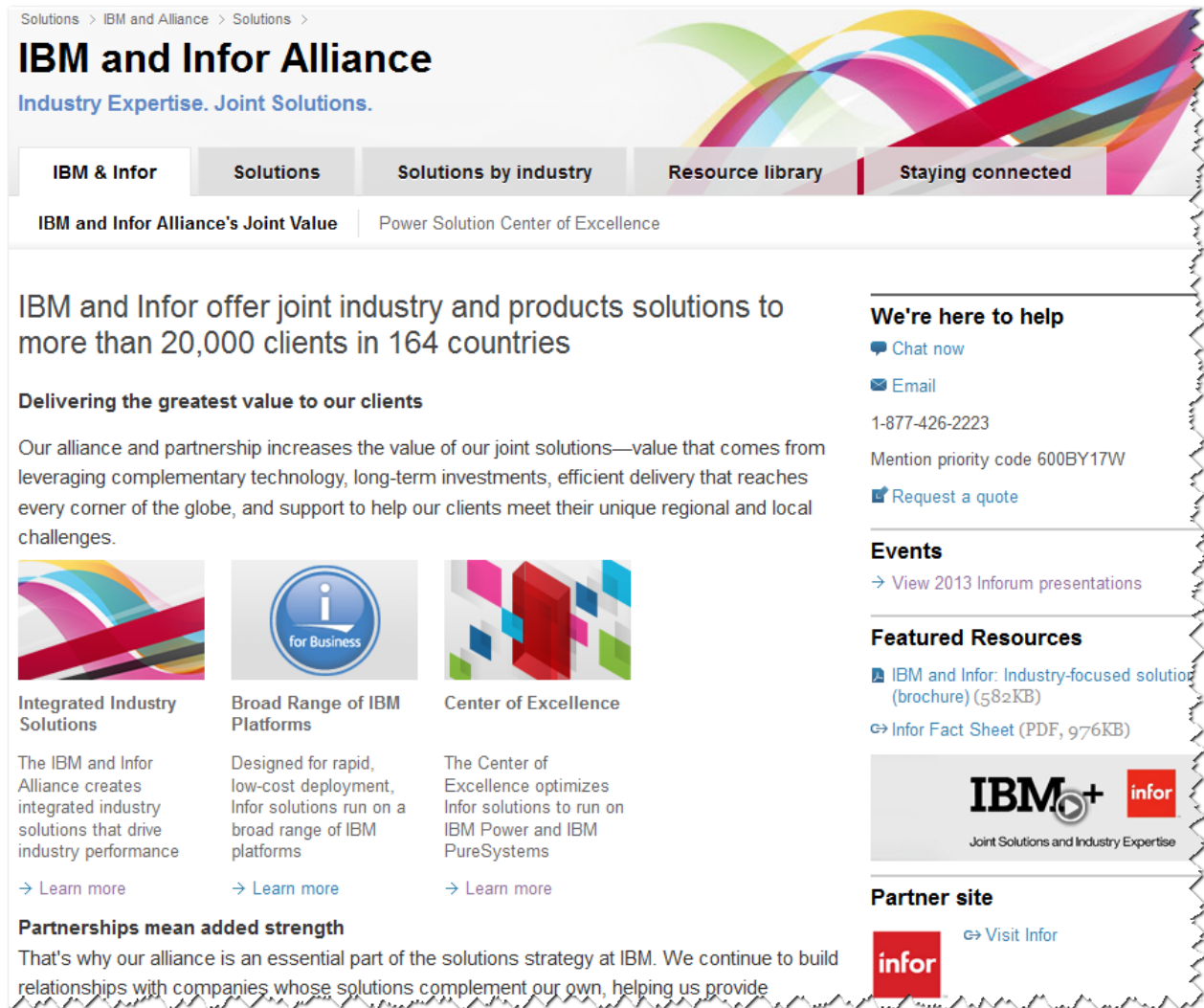
- New generation of systems with the open innovation of the POWER8® processor and architecture (Power® System S814)
- Increased insight for more assured decision making
- Improved productivity, efficiency and responsiveness
- Reduced costs through increased flexibility
- Adaptability to business change
- Higher productivity
- Competitive Total Cost of Acquisition (TCA) and proven Total Cost of Ownership (TCO)

	POWER8 S814 4-core	POWER8 S814 6-core
Edition feature codes	4928	4927
Processor cores shipped	4	6
No-charge processor core activations	3	5

IBM i Power Systems and Infor Alliance

- Center of Excellence in Alpharetta features latest Infor solutions on IBM Power and i

- Broad Range of IBM i Solutions Across Industries

- Unique focus on IBM i solutions, with a long history of joint development

- Dedicated IBM i development resources for Infor solutions

Infor solutions are used by more IBM i customers than any other solution

Solutions > IBM and Alliance > Solutions >

IBM and Infor Alliance
Industry Expertise. Joint Solutions.

| IBM & Infor | Solutions | Solutions by industry | Resource library | Staying connected |

IBM and Infor Alliance's Joint Value   Power Solution Center of Excellence

IBM and Infor offer joint industry and products solutions to more than 20,000 clients in 164 countries

Delivering the greatest value to our clients

Our alliance and partnership increases the value of our joint solutions—value that comes from leveraging complementary technology, long-term investments, efficient delivery that reaches every corner of the globe, and support to help our clients meet their unique regional and local challenges.

Integrated Industry Solutions

The IBM and Infor Alliance creates integrated industry solutions that drive industry performance

→ Learn more

Broad Range of IBM Platforms

Designed for rapid, low-cost deployment, Infor solutions run on a broad range of IBM platforms

→ Learn more

Center of Excellence

The Center of Excellence optimizes Infor solutions to run on IBM Power and IBM PureSystems

→ Learn more

Partnerships mean added strength

That's why our alliance is an essential part of the solutions strategy at IBM. We continue to build relationships with companies whose solutions complement our own, helping us provide

We're here to help

💬 Chat now

✉ Email

1-877-426-2223

Mention priority code 600BY17W

📝 Request a quote

Events

→ View 2013 Inforum presentations

Featured Resources

📄 IBM and Infor: Industry-focused solution (brochure) (582KB)

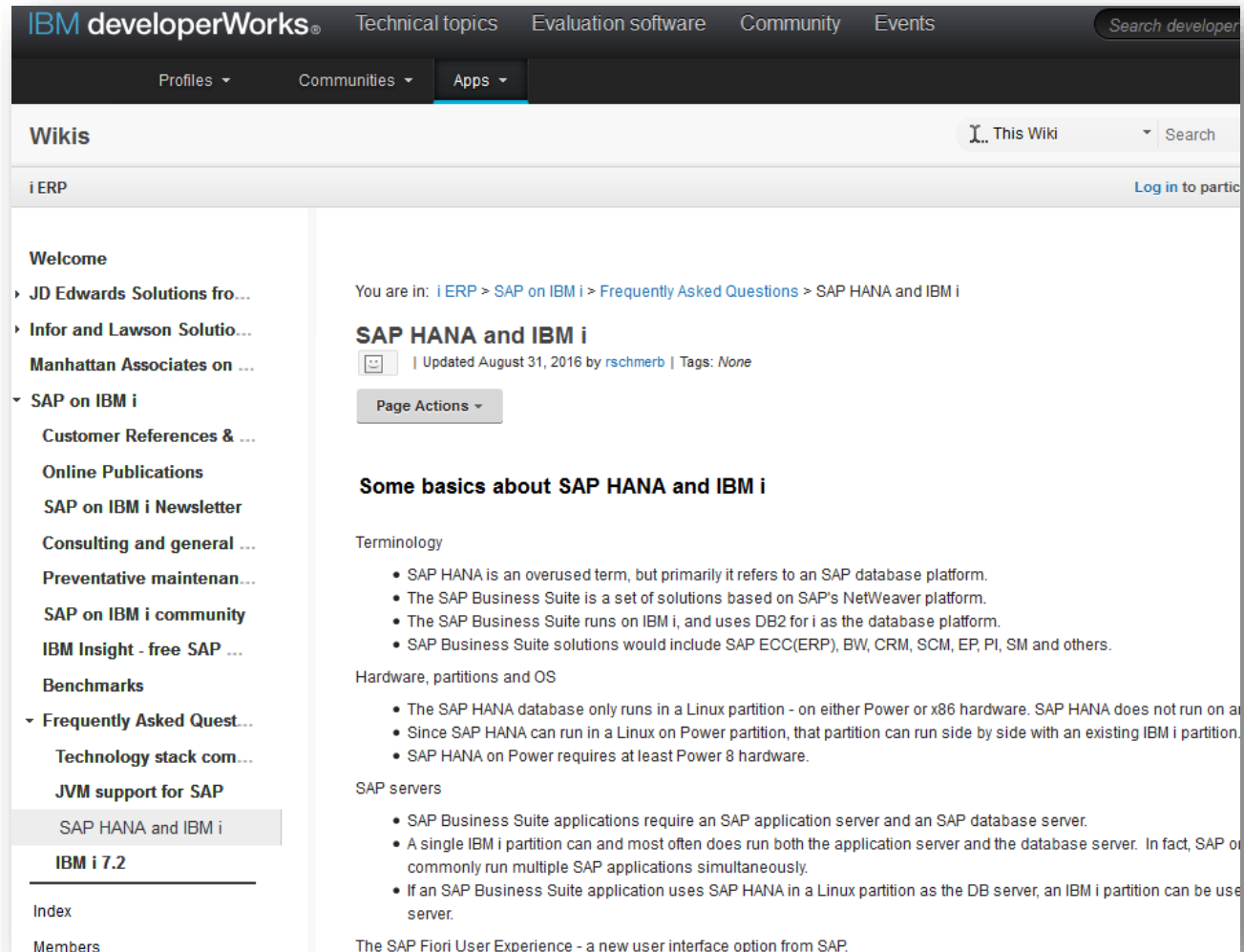↪ Infor Fact Sheet (PDF, 976KB)

IBM + infor
Joint Solutions and Industry Expertise

Partner site

↪ Visit Infor

infor

IBM i Power Systems and SAP Wiki

- Excellent resource around FAQ for customers

- Everything about how to leverage SAP HANA for IBM i customers

- Broad range of customer references

- Online publications for best practices, technologies to help with implementation

- IBM i lab services team specifically focused on SAP solutions

Why IBM i for ERP Partnership is Better Than Ever

- *IBM i and Power Systems are much different than your father's AS/400*

- *Consistent roadmap and investment by IBM demonstrates our commitment*

- *ISV investment in IBM i and Power Systems for on-premise and cloud*

- *The latest skills for application development, management apply to IBM i*

- *High level of engagement by ISV and IBM in growing our relationship*

Mike Breitbach
mbreit@us.ibm.com