Power Systems

IBM

IBM i Enterprise ISVs Trends and Directions

Mike Breitbach
mbreit@us.ibm.com
IBM i Development
Technology CEM

© 2017 IBM Corporation

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)

© 2017 International Business Machines Corporation

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

© 2017 International Business Machines Corporation

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

AS/400®

© 2017 International Business Machines Corporation

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

© 2017 International Business Machines Corporation

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®

© 2017 International Business Machines Corporation

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®

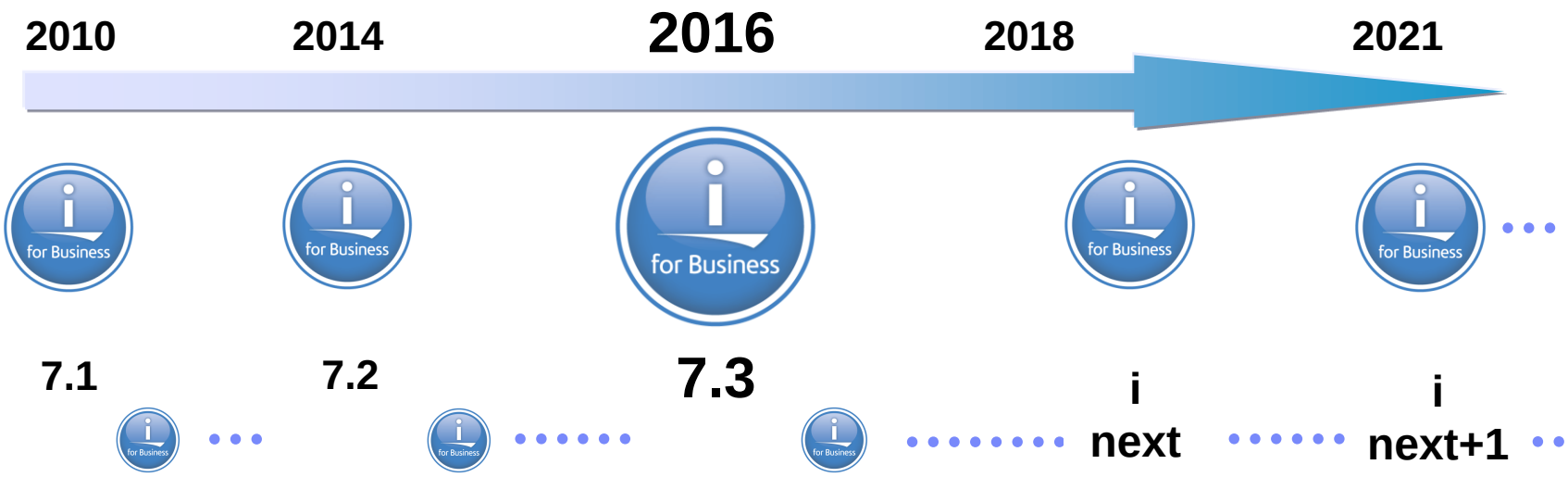
ORACLE®
JD EDWARDS

infor

Manhattan Associates®

© 2017 International Business Machines Corporation

IBM i Release Roadmap



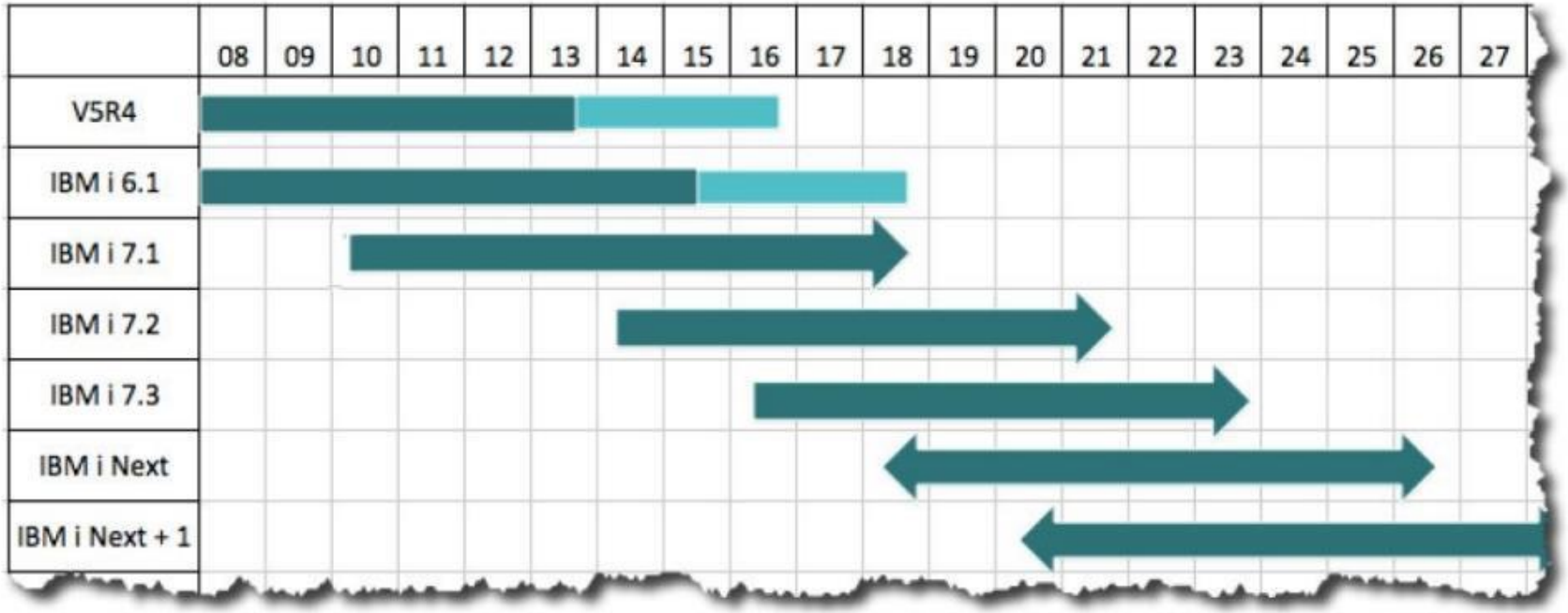
Technology Refreshes

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

8

© 2017 International Business Machines Corporation

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.

© 2017 International Business Machines Corporation

IBM i Power Systems Support

http://www-01.ibm.com/support/docview.wss?uid=ssm1platformibmi

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

© 2017 International Business Machines Corporation

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®

© 2017 International Business Machines Corporation

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

POWER8

© 2017 International Business Machines Corporation

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

ORACLE
JD EDWARDS

- 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

POWER8

© 2017 International Business Machines Corporation

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

© 2017 International Business Machines Corporation

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

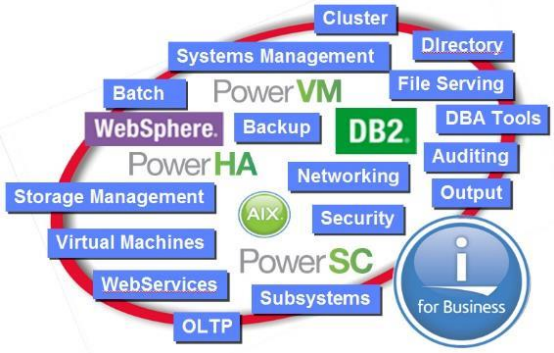
Manhattan Associates®

© 2017 International Business Machines Corporation

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



© 2017 International Business Machines Corporation

IBM i 7.3 Release Themes

- Historical data simplifies business insights for the future

✓ DB2 Temporal support automatically maintains history

DB2

- 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

git

ORION

© 2017 International Business Machines Corporation

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

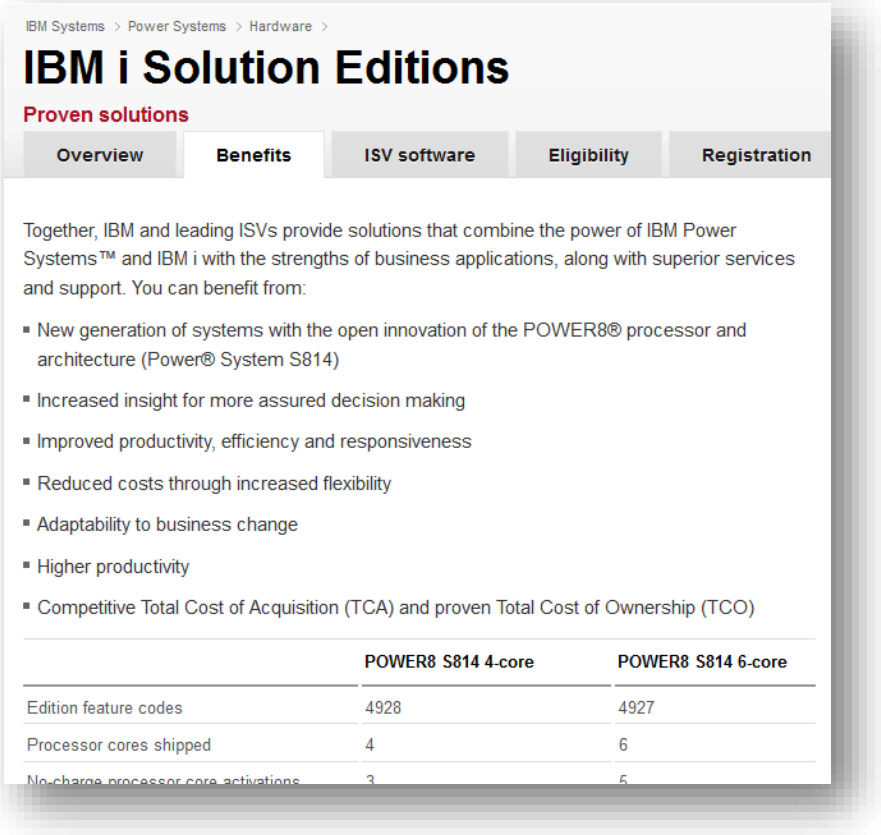
infor

Manhattan Associates®

© 2017 International Business Machines Corporation

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



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

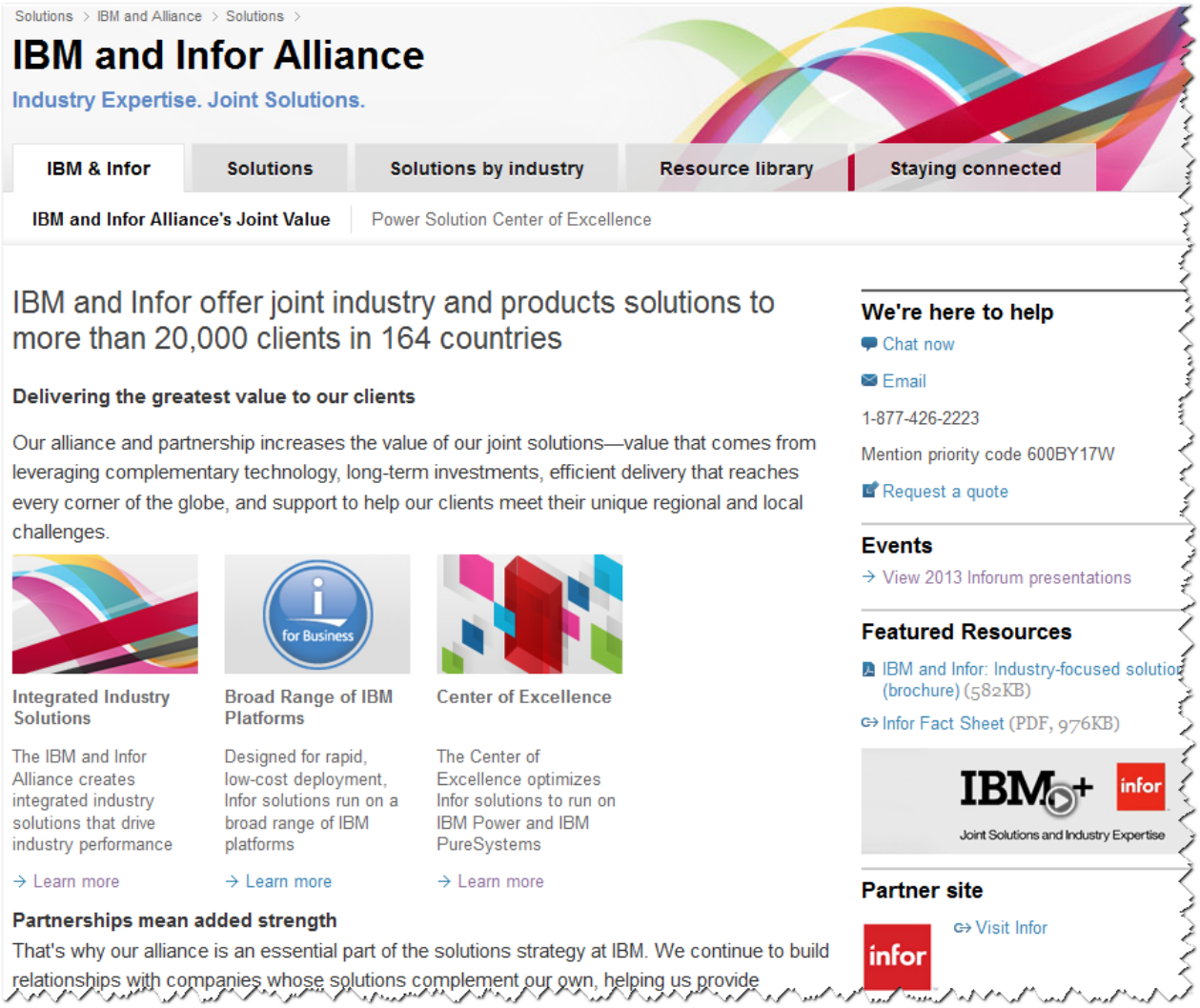
POWER8

© 2017 International Business Machines Corporation

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

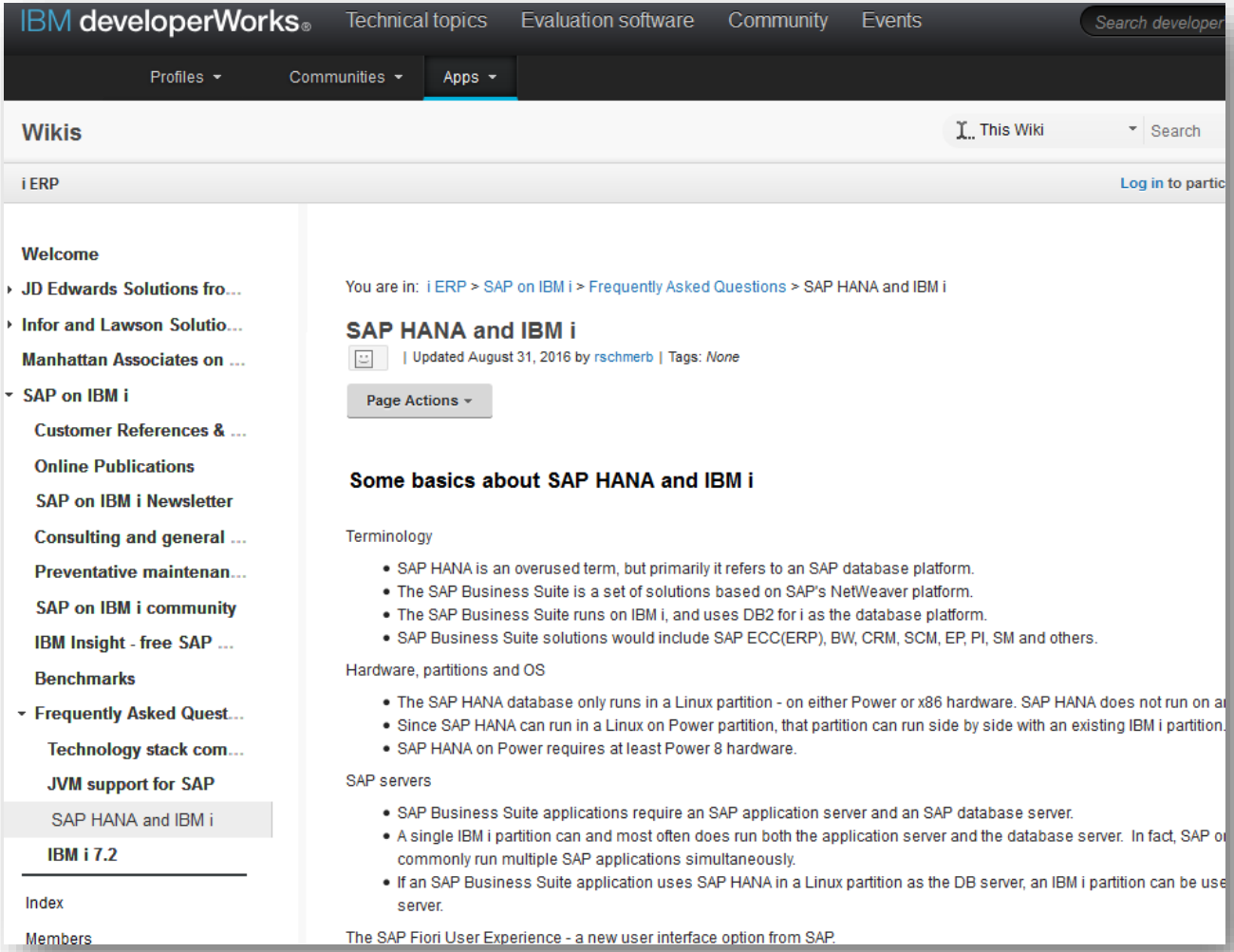
Infor solutions are used by more IBM i customers than any other solution



© 2017 International Business Machines Corporation

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



© 2017 International Business Machines Corporation

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