Moving on to 21st Century Software VSE^n 6.3

The future of VSE

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Agenda

- Who is 21st Century Software?
- IBM, VSE, 21st Century Software
- Planning for 21st Century Software VSE^n 6.3
- Ordering and Pricing
- Installing
- Servicing
- Roadmap

Vision & Mission of 21CS with VSE^n

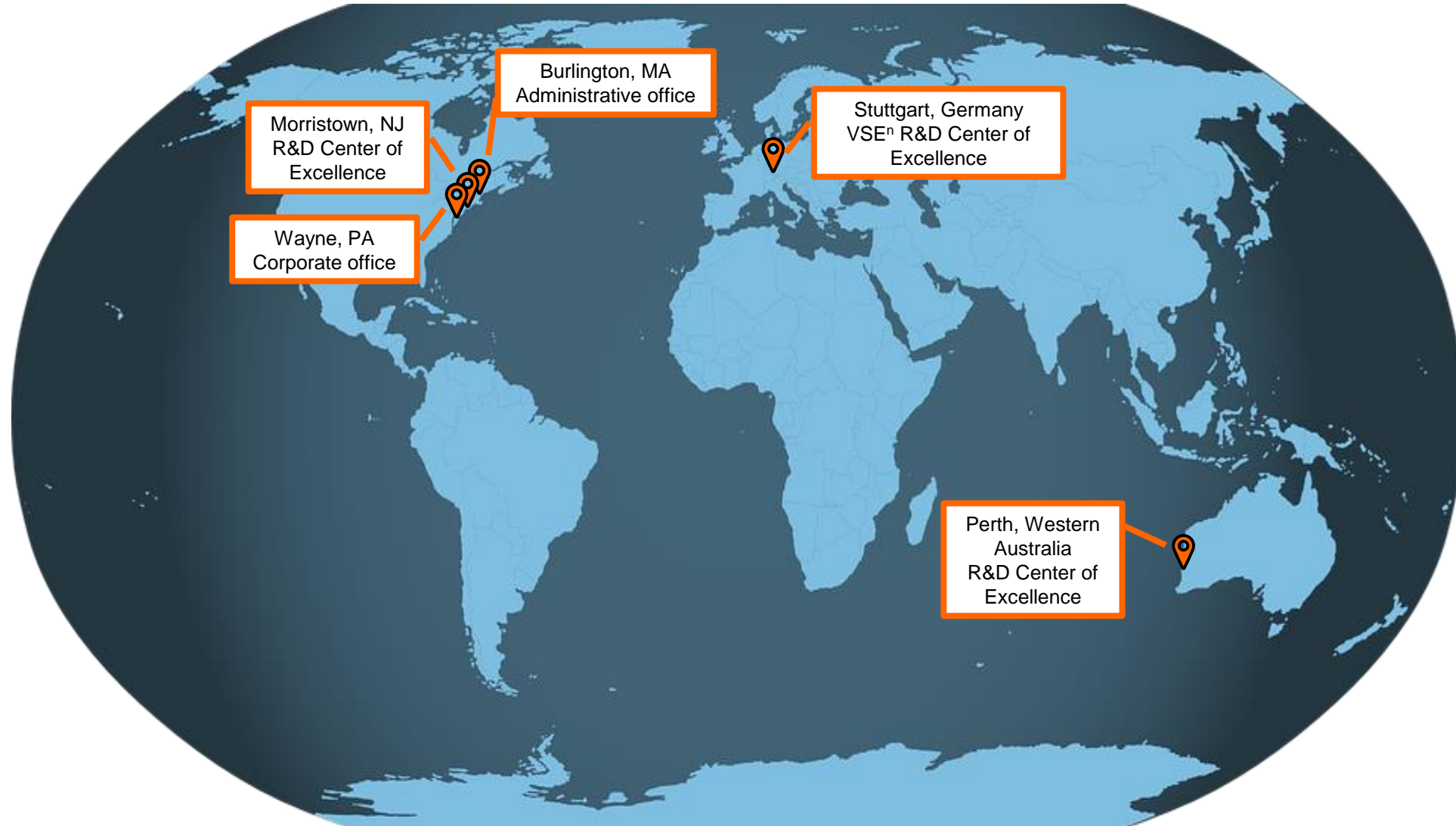*Our core purpose and where we are going…*

Vision

Linking the past to the future: assisting VSE customers protect and realize the value to their investments while bringing increased value and stability to the Z ecosystem.

Mission

To enable the success of the IBM Z - future-proofing both the VSE operating system and associated applications through adaptation to modern methodologies based on deep customer, partner, and IBM insight.

Global locations

Morristown, NJ
R&D Center of
Excellence

Burlington, MA
Administrative office

Wayne, PA
Corporate office

Stuttgart, Germany
VSE^n R&D Center of
Excellence

Perth, Western
Australia
R&D Center of
Excellence

Key Priorities for 21ˢᵗ = Value Add for Customers

Research and Development	Go to Market Support	Sales Support	Technical Sales Support	Implementation and Service	Technical Support
• Customer-driven • Leverage advanced technologies • Future thinking • Quality design	• Sales enablement • Marketing enablement • GTM strategy	• Strategize • Coach individually • Know the market	• Interpret customer needs • Feedback path to R&D • Customer-facing finesse	• Skill depth • Customer-facing finesse • Product advisors • Time to value	• Skill depth • Customer-facing finesse • Problem solving skills • Sense of urgency

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IBM z/VSE 6.2 and 21CS

- IBM z/VSE 6.2 was released Dec. 2017. Since then, small enhancements via continuous delivery (as PTF in service stream) were provided

- 21CS has had a successful relationship with IBM for many years in the z/OS ecosystem, so this made 21CS the best candidate to take care of and invest in the VSE stack

- June 1st, 2021, 21CS announced entering on a source code license agreement with IBM, where we licensed most of the z/VSE Stack source code and that Gonzalo Muelas Serrano would be responsible for the VSE R+D and Business within 21CS

21CS Center of Excellence Germany and the path to VSE^n 6.3

- Opening a new Center of Excellence in Stuttgart, Germany (due to its proximity to IBM R+D Lab in Böblingen, Germany and strategic situation in EMEA) with
two goals:
  - Achieve global coverage of 21CS services on local time zones with 3 main locations (PA/NJ US, Stuttgart Germany and Perth Australia)
  - Build a team with skills on IBM zSystems, especially VSE, but also z/OS

- The motivated team, with a mix of very experienced z/VSE and z/OS developers and fast learning university hires, successfully achieved to build, "whitewash", and test our derivative products: VSE^n 6.3 and related Middleware

21CS VSE^n 6.3 announcement and following IBM announcements

- March 25th, 2022, 21CS announced the planned availability of 21CS VSE^n 6.3 platform on May 17th, 2022
    - With most of the VSE key vendors already working to support 21CS VSE^n

- April 5th, 2022 IBM z16tm puts innovation to work while unlocking the potential of your hybrid cloud transformation – IBM z16 announcement where IBM recognizes and lists 21st Century Software VSE^n 6.3 as an operating system supporting IBM z16

- May 17th, 2022 VSEn – 21CSW (21stcenturysoftware.com) – Availability of 21st Century Software VSE^n 6.3 focusing on compatibility with IBM z/VSE customers and vendors, and commitment to support latest and newest HW like the IBM z16 and future generations

- June 7th, 2022 – IBM Software withdrawal: Select IBM Z platform programs - Some replacements available – Including withdrawal from marking announcement of IBM z/VSE 6.2 and related IBM z/VSE Middleware, showing that IBM, after 21CS VSE^n 6.3 availability, trusts that the customers are in good hands with 21st Century Software and if customers need VSE as a platform, they should order directly 21CSW VSE^n 6.3

- June 7th, 2022 – IBM Statement of direction: IBM z/VSE 6.2 support for the IBM z16 – Statement of direction announcement stating that the IBM z16 A01 will be the latest IBM zSystems HW supported by IBM z/VSE, as a result of the commitment from 21st Century Software VSE^n to be the one choice supporting future IBM zSystems HW for VSE customers.

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21CS VSE^n 6.3 GA

- Focus on compatibility, easy upgrade and new IBM z16 support:
    - Based on IBM z/VSE 6.2 plus features and fixes till May 2022
        - "Whitewashed" derivative (only marketing names, messages and dialogs), release bump (internal and external) and new PIDs, CompIDs and CLCs
    - Supports IBM z114/z196 or newer generations
    - Supports LPAR and z/VM
    - Supports FICON attached disk storage (IBM, Hitachi, Dell/EMC)
    - Supports FCP/SCSI attached disk storage
    - Supports FICON attached tape storage (real or virtual)
    - Supports new installation and FSU from IBM z/VSE 5.2, 6.1 and 6.2 directly to 21CS VSE^n 6.3
    - IBM z/VSE Middleware currently supported on IBM z/VSE and not yet available (its derivative version) from 21CS is compatible and supported by IBM on 21CS VSE^n 6.3

21CS VSE^n 6.3 GA – Contents

- Includes:
  - Base digital "tape" image/file (needed for new installation or FSU update):
    - VSE^n 6.3 OS (including related host VSEn Connector Server, SOAP Web Services, RESTful Web Services and APIs, SNMP Monitoring Agent and GDPS Client)
    - OnLine Transaction Processing (OLTP) for VSE^n 2.3 (based on IBM CICS TS for z/VSE 2.2)
    - Virtual Communication-stack and Device Drivers (VCDD) for VSE^n 4.3 (based on IBM ACF/VTAM VSE/ESA 4.2)
    - High Level Assembler (HLASM) for VSE^n 1.6
    - IBM Device Support Facilities (ICKDSF) for VSE^n 1.18
    - Information Diagnostic Record Program (IDRP) for VSE^n 3.6 (based on IBM EREP for VSE/ESA 3.5)
    - TCP/IP for VSE^n 2.3.1 (new key from 21CS needed)
    - IPv6/VSE 1.4 (new key from 21CS needed)

21CS VSE^n 6.3 GA – Contents (cont.)

- Includes:
  - Extended base digital "tape" image/file:
    - OS/390 APIs 9.5
    - Language Environment (LE) Double Byte Character Support (DBCS) Locale 1.5
  - Optional features and products digital "tape" images/files:
    - Encryption Facility for VSE^n 1.3
    - Hierarchical Data Base (HDB) for VSE^n 1.13 (based on IBM DL/I for z/VSE 1.12.1)

21CS VSE^n 6.3 GA – Contents (cont.)

- Includes:
  - VSE^n Connectors and tools
    - VSE^n Linux Fast Path Daemon
    - VSE^n Connector Client
    - VSE^n Navigator
    - VSE^n Health Checker tool
    - VSE^n CPU Monitor tool
    - VSE^n Encryption Keys Manager
    - VSE^n Print tool
    - VSE^n Virtual Tape Server
    - VSE^n List AWS Tape Volume tool
    - VSE^n TS770 Bulk Volume Information Retrieval tool
    - VSE^n Virtual FTP Server
    - VSE^n Java Service tool
    - OLTP to WebServices tool
    - VSE^n Zip Programming Interface API
    - VSE^n System information class library
    - VSE^n Security information class library

- VSE^n Ant tasks
- VSE^n Script Server
- VSE^n VSAM Map tool
- VSE^n VSAM Redirector
- VSE^n Database Call Level Interface Server
- VSE^n LDAP Query callable module
- VSE^n Basic Security Manager Cross Reference tool
- VSE^n RACROUTE Encapsulations services
- VSE^n Multi Instant Logic Analyzer for VSAM tool
- VSE^n LE Control Center tool
- VSE^n Remote Debug tool
- VSE^n IP Trace tool

21CS VSE^n 6.3 GA – Contents (cont.)

- Includes:
  - Documentation (more to come)
    - VSE^n 6.3 Planning
    - VSE^n 6.3 Installation
    - VSE^n 6.3 System Upgrade and Service
    - VSE^n 6.3 Administration
    - VSE^n 6.3 Operation
    - VSE^n 6.3 System Utilities
    - VSE^n 6.3 System Functions Guide
    - VSE^n 6.3 System Control Statements
    - VSE^n 6.3 System Macros Reference
    - VSE^n 6.3 Messages and Codes Volume 1
    - VSE^n 6.3 Messages and Codes Volume 2
    - VSE^n 6.3 Messages and Codes Volume 3
    - VSE^n 6.3 LE Debugging Guide and Runtime Messages

    - HLASM for VSE^n 1.6 Installation and Customization
    - HLASM for VSE^n 1.6 General Information

    - IDRP for VSE^n 3.6 User's Guide
    - IDRP for VSE^n 3.6 Reference

    - TCP/IP for VSE^n 2.3.1 Install Guide
    - TCP/IP for VSE^n 2.3.1 User Guide
    - TCP/IP for VSE^n 2.3.1 Command Reference
    - TCP/IP for VSE^n 2.3.1 Optional Features Guide
    - TCP/IP for VSE^n 2.3.1 Messages
    - TCP/IP for VSE^n 2.3.1 Programmer's Guide

    - IPv6/VSE 1.4 Migration Guide
    - IPv6/VSE 1.4 IPv6 Installation Guide
    - IPv6/VSE 1.4 IPv4 Installation Guide
    - IPv6/VSE 1.4 IPv6 User's Guide
    - IPv6/VSE 1.4 IPv4 User's Guide
    - IPv6/VSE 1.4 SSL/TLS Installation, Programming and User's Guide
    - IPv6/VSE 1.4 SSH Secure Copy Supplement Guide
    - IPv6/VSE FTP Security Supplement Guide
    - IPv6/VSE 1.4 Programming Guide
    - IPv6/VSE 1.4 PDF Generation Supplement Guide
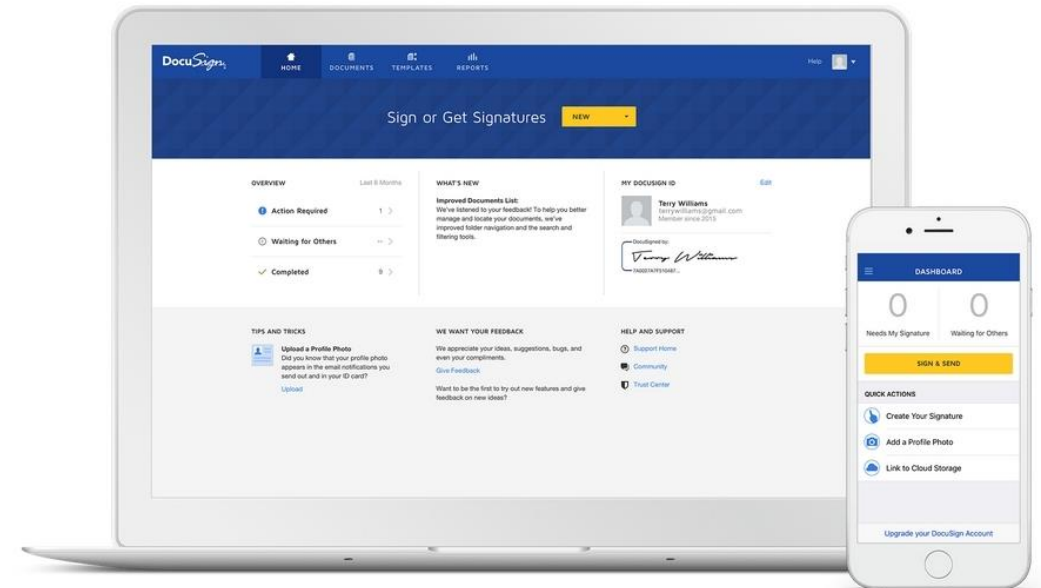   - IPv6/VSE 1.4 Messages and Codes

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Ordering and Pricing

- Ordering:

  - Via email vse@21csw.com

  - Only two documents to review and sign via DocuSign:

    - 21CS CRA (similar to IBM CRA)

    - Product Order License

  - Upon signature, the product is offered via Box folder invite

- Pricing: like IBM z/VSE pricing but much simpler:

  - Only one license metric with option for full capacity or sub-capacity pricing

    » In case of sub-capacity, using VSE^nSCRT native on VSE^n to generate, see and provide monthly 4HRA peaks reports

  - Monthly License Charge includes support as long as the product is supported (5 years since GA, releases every 2 years)

  - "Hosters" that have a license 21CS VSE^n are allowed to provide IT Services (including usage of VSE^n but not exclusive to it) to multiple users

  - Plan to offer attractive discount for existing IBM z/VSE customer till June 2023, at fix rate for twice the time frame from signing till June 2023

  - Migration and consulting services also offered extra

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Installation considerations

- Supports IBM z114/z196 or newer generations

- Supports LPAR and z/VM

- Supports FICON attached disk storage (IBM, Hitachi, Dell/EMC)

- Supports FCP/SCSI attached disk storage

- Supports FICON attached tape storage (real or virtual)

- A, B, C environments sizes remain with the same req. as IBM z/VSE 6.2 on CPU, Memory/Main Storage and Disk Storage

- Supports new installation and FSU from IBM z/VSE 5.2, 6.1 and 6.2 directly to 21CS VSEn 6.3 – For more details check out sessions:

  - **"Fresh installation of 21C VSEn 6.3"** **Thursday at 1pm in ES2008W**

  - **"Fast Service Upgrade from IBM z/VSE to 21C VSEn 6.3"** **Friday at 11am in ES2008W**

- IBM z/VSE Middleware currently supported on IBM z/VSE and not yet available (its derivative version) from 21CS is compatible and supported by IBM on 21CS VSEn 6.3

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Technical Support

- Support:
  - Included in the MLC as long as the release is supported
  - 24x7
  - WW coverage
  - via email vse@21csw.com and telephone: +1 800-555-6845

- In case of dumps
  - Upload to Box to your folder (not shared with any other customer)
  - Option for regional Box servers (US or EU) in case of need that the data shall not leave your region

- APARs and PTFs
  - Delivered via Box folder
  - Generated and installed with MSHP (like you are used to)

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Roadmap

- Enablement and availability of the rest of the VSE Stack

- Enablement of Public Cloud deployment options

- IBM zNext support

- Security enhancements

- Further customer requirements that bring them value, help them stay current and modernize their VSE environments – speak up, we are listening! ☺

- Engage with VSE vendors experts on certain areas, so that they can take best advantage of the VSE^n platform and as a result increase the value of your VSE asset

- Customer survey developed to guide us on the roadmap - VSEn Survey

Next steps

How can we help you?

Thank you!