

# **VMS/XDE**

## **Cross-Development Environment**

Camiel Vanderhoeven

Nikolai Ershov

# Agenda



**Why**



**What**



**How**



**Early Feedback**



**Live Demo**



**Next Steps**

# Why

# Why – The Gap – 1980s

## Developer Expectations

- vi
- sccs
- make
- Manual testing
- Collaboration?
- Remote development

## OpenVMS Offering

- LSE
- CMS
- MMS
- DTM
- VAXnotes
- Remote development



# Why – The Gap – 2020s

## Developer Expectations

- AI-enabled IDEs
- Distributed Source Control
- Meson, Ninja
- CI/CD, sandboxes
- Slack
- Local development

## OpenVMS Offering

- LSE
- CMS
- MMS
- DTM
- VAXnotes
- Remote development



# Why – Learning Curve

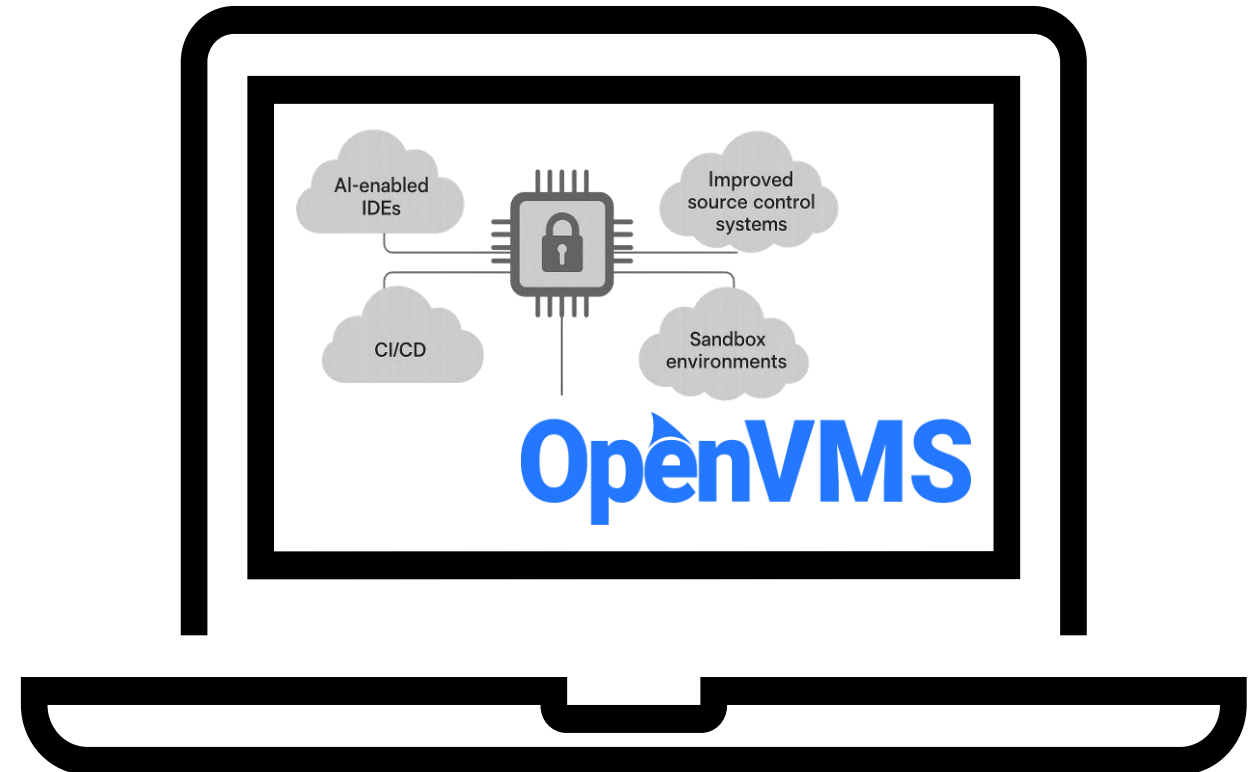
- ▶ A developer who is new to OpenVMS may have to learn some VMS specific routines, and maybe some new language(s)...
- ▶ But they will also have to learn a new set of tools: editors, CMS, MMS, etc...
- ▶ And these may feel like a huge step backwards to them!

What

# What – VMS/XDE

**Develop native x86 OpenVMS apps directly on your laptop**

- ✓ **Works on Linux or Windows (using WSL)**
- ✓ **Integrates with Modern Tools**
- ✓ **Easy to install**
- ✓ **Docker support**



# What – Benefits

- ▶ Modern DevOps practices
- ▶ Familiar development environment
- ▶ Seamless integration, no copying files around between systems

# What – Current Beta Offering

- ▶ Free, Fully Functional VMS/XDE based on OpenVMS V9.2-3 with regular updates
- ▶ Time limited until January 31<sup>st</sup>, 2026
- ▶ BASIC, Bliss, C, COBOL, C++, FORTRAN, MACRO-32, Pascal, x86 Assembler, SDL, DECset, DECforms, CURL, LDAP, SSL, GIT, GNV, OpenSSH

# What – Licensing

- ▶ VMS/XDE will use LMF for Licensing.
- ▶ Beta version does not require any licenses.
- ▶ You can install other VSI products on the MS/XDE Beta version.

How

# How

## Open Source

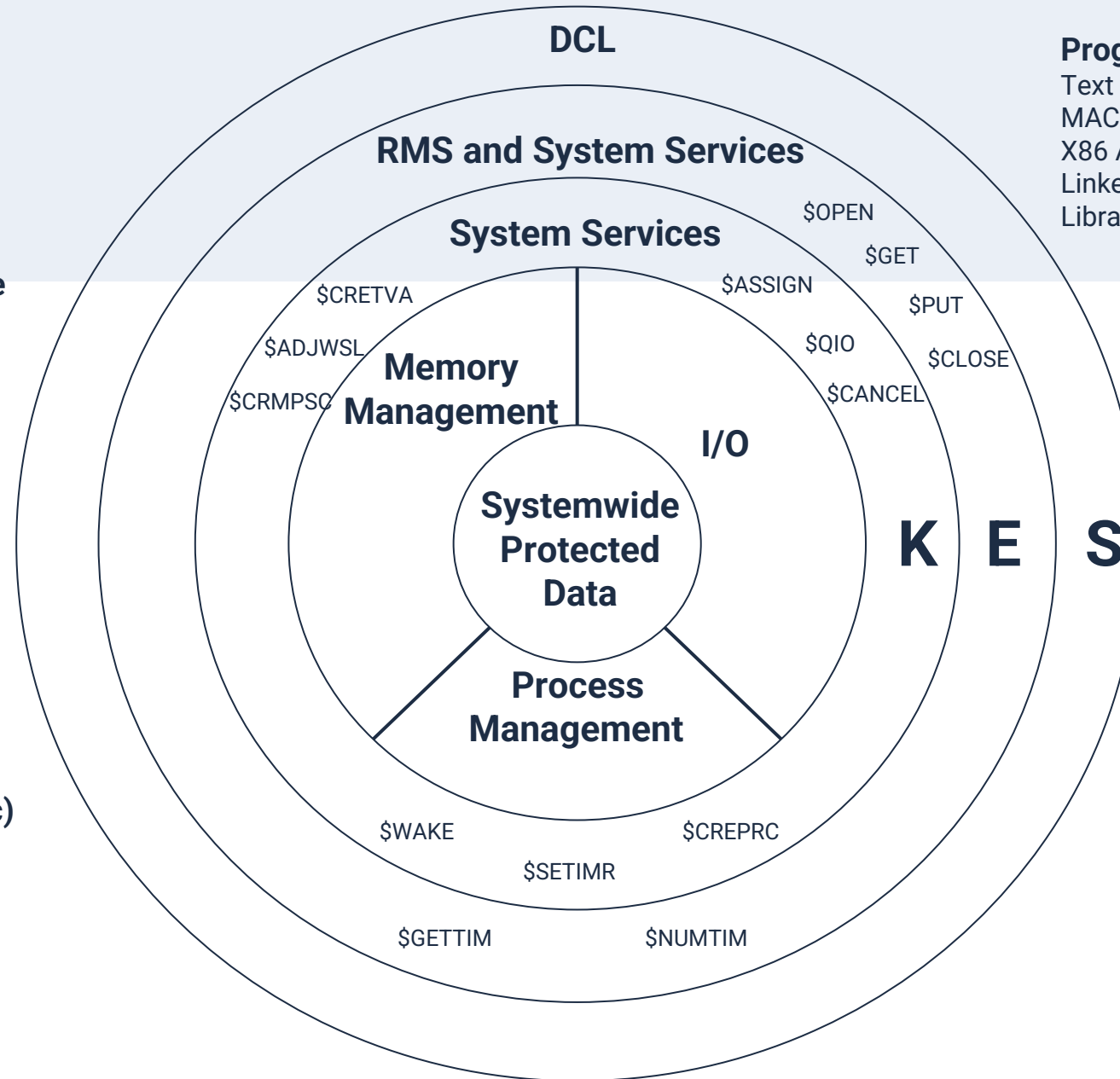
OpenSSH  
OpenSSL  
GNV  
Git

## Layered Products

Language Compilers  
DECSET  
DECforms

## RTL (Specific)

C  
C++  
FORTRAN  
BASIC  
PASCAL  
...



## Program Development Tools

Text Editors  
MACRO Compiler  
X86 Assembler  
Linker  
Librarian

## Utilities

SORT  
File Manipulation  
HELP  
DIRECTORY

## User Applications

## RTL (General)

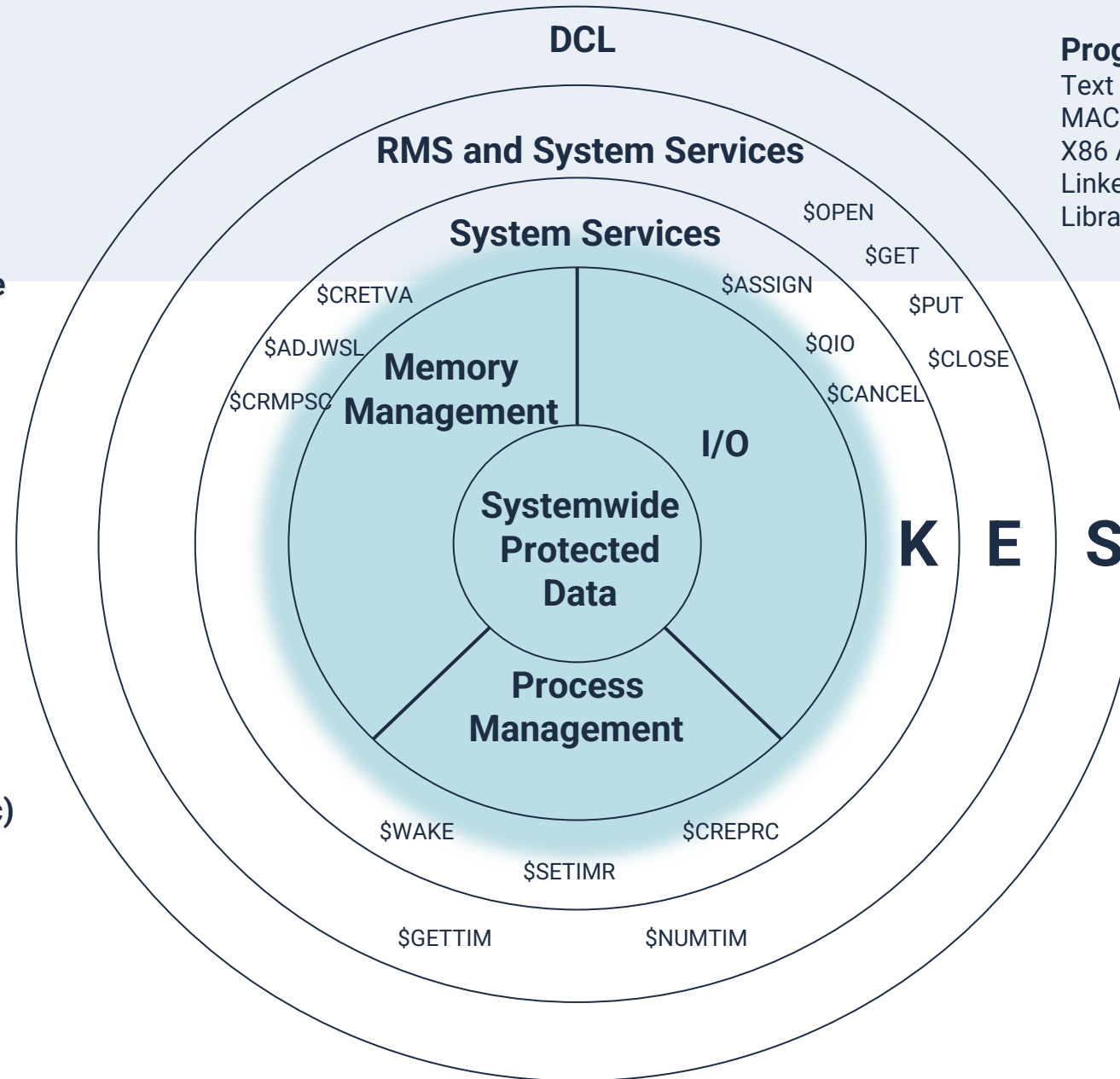
Math Library  
String Manipulation  
Screen Formatting  
Pthreads

# How

**Open Source**  
OpenSSH  
OpenSSL  
GNV  
Git

**Layered Products**  
Language Compilers  
DECSET  
DECforms

**RTL (Specific)**  
C  
C++  
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## Program Development Tools

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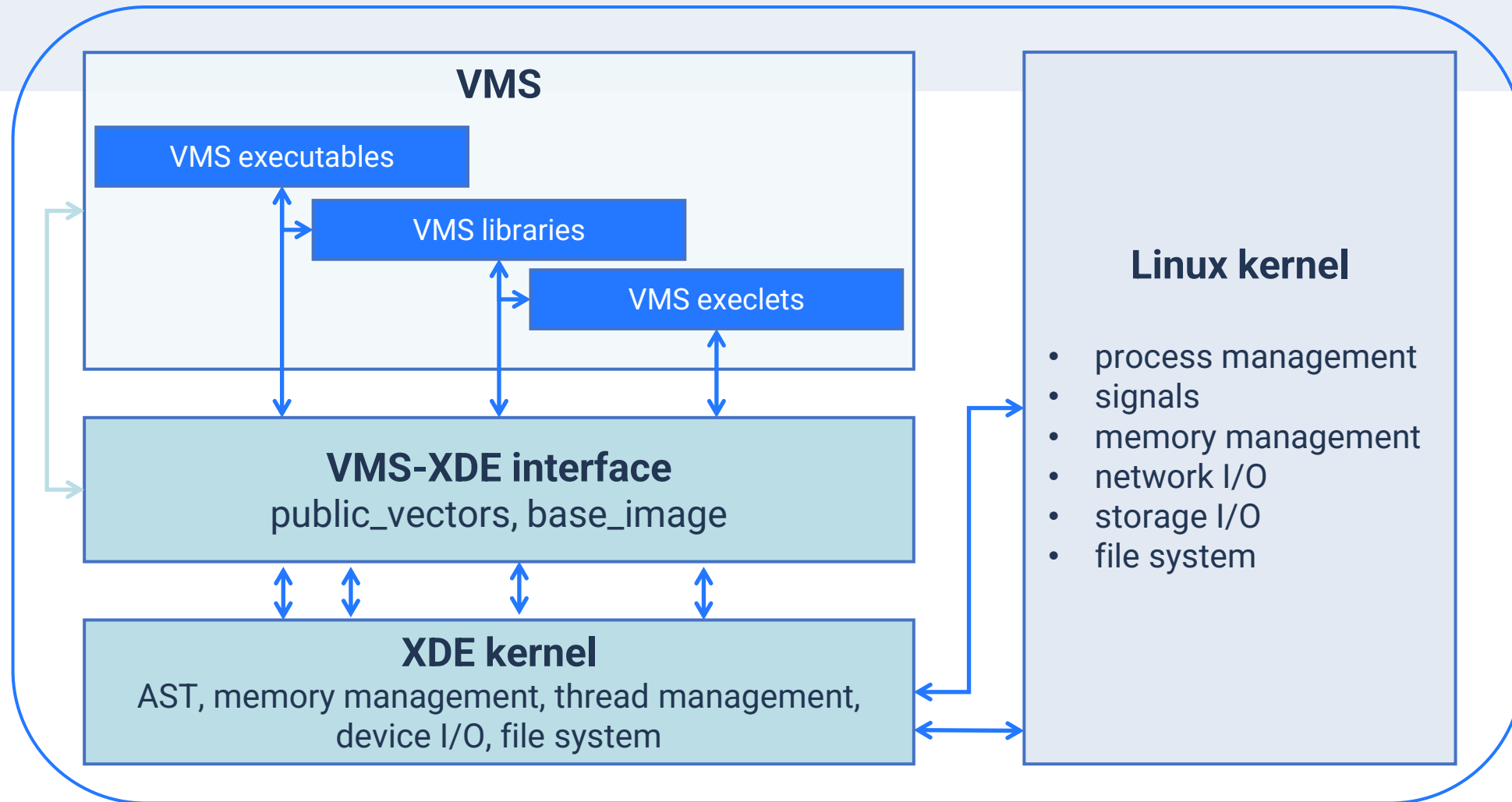
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## User Applications

## RTL (General)

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# How



# Early Feedback

# Early Feedback - Can you briefly describe the programs/tests you ran to try out VMS/XDE?

- ▶ Basic user environment testing so far. Commands and utilities.
- ▶ Initially played with the environment, then built a small BASIC program, which worked well.
- ▶ Port of my private tools, and freeware tools. Also tried to understand the filesystem details.

# Early Feedback – Which features did you find most useful?

- ▶ Near total compatibility.
- ▶ Speed of activation vs. bringing up a full virtual machine is fantastic
- ▶ Nice environment, but I am not sure of where it fits in. I am an experienced VMS user/developer

# Early Feedback - Other



## **osnews.com**

In a world where so many of its former competitors are being held hostage by corporate indifference, it's refreshing to see VMS still moving forward.



## **Forum**

Explode it, as per instructions and `$ ./run.sh`. Presto! OpenVMS Username prompt. Just enter username, no password, and you are running OpenVMS best you can tell!



## **Email**

I have long wished for a more "modern DevOps" style environment, [...] where our OpenVMS developers could do "local writing and testing" of their code prior to affecting [...] the main development server.

Live Demo

# Next Steps

## Next Steps - Give it a try and let us know!



**<https://products.vmssoftware.com/vmsxde>**  
Product page with link to sign up.



**<https://forum.vmssoftware.com/viewforum.php?f=45>**  
VMS/XDE Forum



**[vms-xde@vmssoftware.com](mailto:vms-xde@vmssoftware.com)**  
E-mail address for non-public feedback or questions

# Next Steps

- ▶ Evaluation after field test ends on January 31<sup>st</sup>. All feedback, bug reports, etc. will be considered.
- ▶ Next, we might have another field test or offer VMS/XDE commercially.
- ▶ No decisions on pricing made yet. What is it worth to you?

# Questions and Feedback

<https://products.vmssoftware.com/vmsxde>

[vms-xde@vmssoftware.com](mailto:vms-xde@vmssoftware.com)