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# Update for Oracle Data Base on OpenVMS

## Conversational Notes

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# Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

# Presenter



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# Oracle RAC on OpenVMS

- 1 ➤ Product Review
- 2 ➤ Current Projects
- 3 ➤ VSI Relationship
- 4 ➤ Roadmap
- 5 ➤ Closing



A man with glasses and a denim shirt is gesturing while talking to a woman in a yellow top. They are sitting at a wooden table with several papers, a coffee cup, and a smartphone. The papers contain various charts and graphs. The background is a blurred office environment.

# Product Review

# Oracle Database 11gR2 on OpenVMS

- 11.2.0.4.0 is final Patch Set for the 11.2 code line
  - Support runs through 2021
    - Reference MOS note 742060.1 for Oracle database release schedule
    - Base bug number to locate PSU's
      - Oct 2019 PSU
        - Patch 29913194 : DATABASE PATCH SET UPDATE 11.2.0.4.101015
          - p29913194\_112040\_IltaniumVMS.zip
    - Plan is to release OpenVMS PSUs approximately the same time as all other DB PSUs
- OpenVMS 11.2.0.4 FAQ
  - Reference MOS Note 2012766.1

# Certification Documentation

- My Oracle Support (MOS) Document
  - <https://support.oracle.com>
  - **Doc ID 377470.1**
    - **Note**
      - Please use this document as the current support matrix Oracle Database on OpenVMS
        - It is updated with each platform certification



# Note on native OpenVMS Java 1.8

- HPE release notes document that the interface to OpenVMS Java 1.8 is a 64 bit interface.
  - Java 1.4-2, 1.5, 1.6 all had a 32 bit interface
  - Oracle Database on OpenVMS supports only a 32 bit interface
    - [https://www.hpe.com/global/java/documentation/1.8.0/ivms/docs/release\\_notes.html](https://www.hpe.com/global/java/documentation/1.8.0/ivms/docs/release_notes.html)
      - Document in compatibility section
- Using Java 1.8 from a Linux or Windows platform is supported against the OpenVMS 11gR2 database.
  - Note: the documentation states that ojdbc6.jar is the interface to the oracle database
    - [http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-faq-090281.html#01\\_02](http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-faq-090281.html#01_02)

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# Current Projects

# Development Projects

- Current development focused on 12.2.0.1.0
- Switching to 19.3.0.0.1904, it is the production on premise release for Oracle 19
  - Releases planned for 19
    - Client release
    - Server release
    - CRS/RAC release

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# VSI Relationship

# VSI IP Stack and progress

- We work closely with VSI
  - 11.2.0.4.0 is being qualified for VSI IP
    - We are doing full builds to validate, with QA
  - 12.2.0.1.0 is using the DEC CRTL C99 headers

# VSI Joint projects

- X86 cross compiler
  - Oracle Database has compiled basic functionality
    - Limited in scope in what can be built
      - Build require images to be built and linked for purposes of generating modules or headers for the architecture of a platform build
- VSI DEC CRTL C99 standards rolled out.
  - We are already taking advantage of new functionality for 12.2



# VSI IP Stack and progress

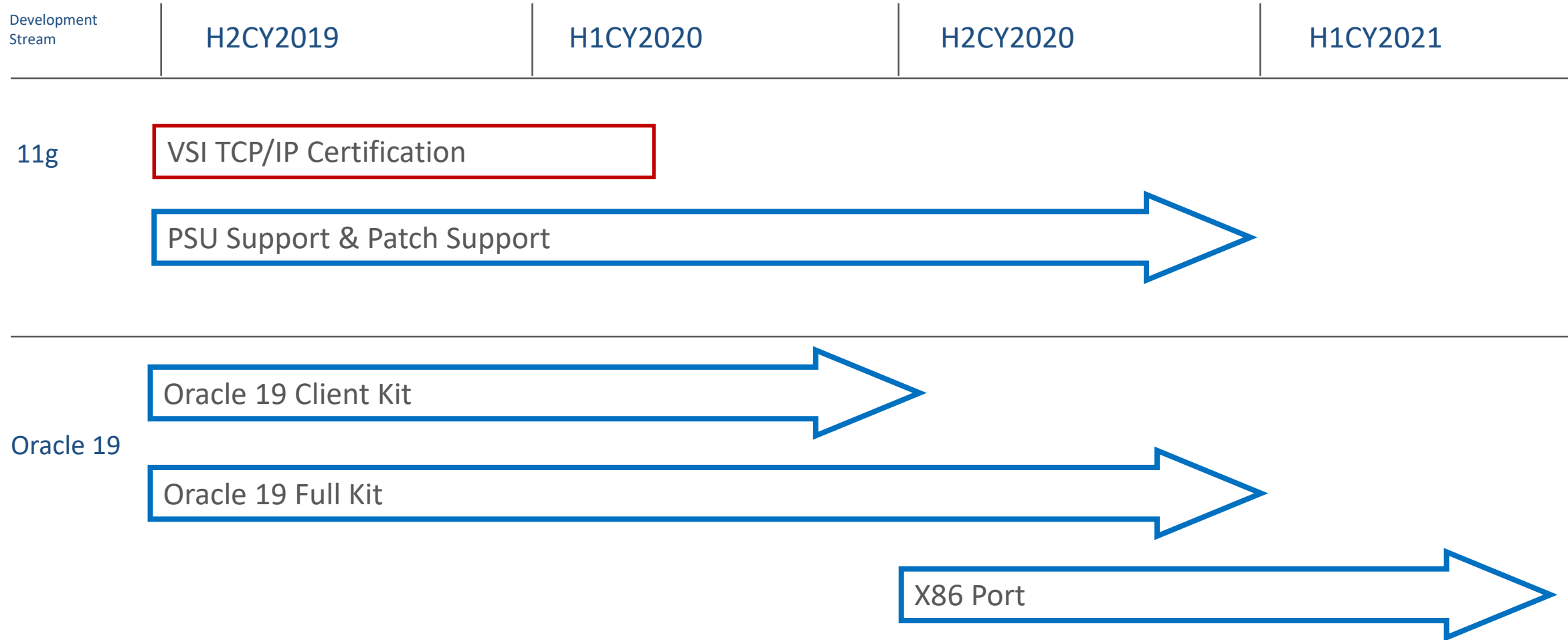
- 7 symbols had to be resolved for basic linking
  - TCPIP\$NS\_INITPARSE
  - TCPIP\$NS\_NAME\_UNCOMPRESS
  - TCPIP\$NS\_PARSERR
  - TCPIP\$RES\_INIT
  - TCPIP\$RES\_SEARCH
  - in6addr\_any
  - in6addr\_loopback
- Header file inconsistencies addressed
  - “tcpip\$inetdef.h” and “ucx\$inetdef.h” required changes to function with new IP stack.

# VSI IP Stack and Progress (cont)

- Link issue found in the CRS/RAC component
  - Issue with “socketpair()”
    - Failed with error code, VSI resolved quickly
    - We are now working to create a follow-up problem report for a down stream issue
  - TCPIP\$\_\_RES\_STATE
    - Note: Progress was made with the HPE TCPIP stack for CRS. This problem was discovered while verifying that the VSI IP stack is comparable to HPE

# Roadmap

# Oracle Database on OpenVMS Roadmap



# Closing



# In Conclusion

- Work is on going for VSI IP stack validation
  - Dependencies in Socket communication are now being analyzed
    - VSI is actively engaged with us in this effort
- All future versions of Oracle Data Base will be delivered on the VSI's OpenVMS releases
- Plans will be to continue to support HPE TCPIP and VSI IP stack on Itanium
  - X86 will only be the VSI IP stack



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