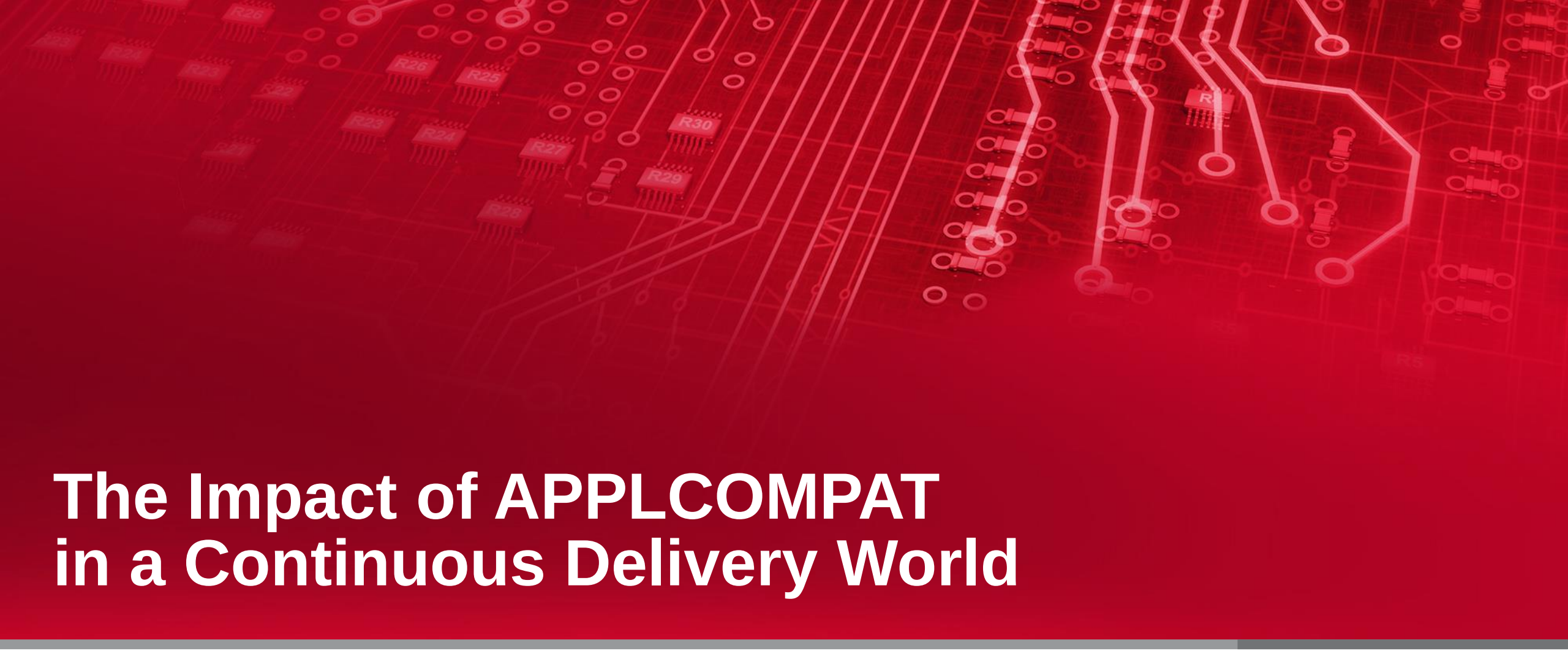

# The Impact of APPLCOMPAT in a Continuous Delivery World

**Andrew Badgley**

April 30th, 2019

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# Db2 12 Continuous Delivery

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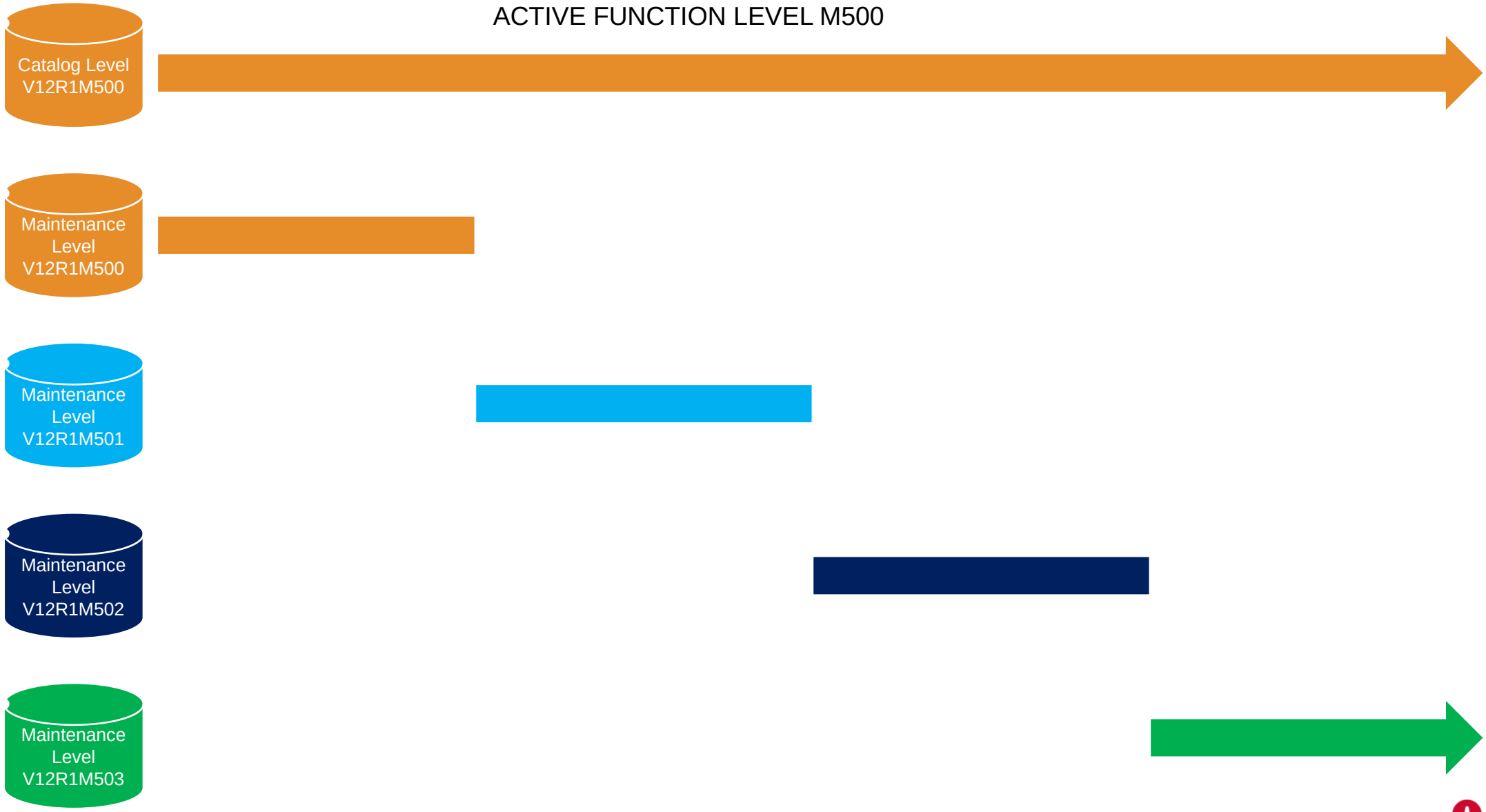
# Maintenance Levels

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# Maintenance Levels

```
********************************** TOP OF DATA **********************************
DSN7100I  !D12A DSN7GCMD
*** BEGIN DISPLAY OF GROUP(........) CATALOG LEVEL(V12R1M500)
                 CURRENT FUNCTION LEVEL(V12R1M500)
                 HIGHEST ACTIVATED FUNCTION LEVEL(V12R1M500)
                 HIGHEST POSSIBLE FUNCTION LEVEL(V12R1M501)
                 PROTOCOL LEVEL(2)
                 GROUP ATTACH NAME(....)
------------------------------------------------------------------------------
DB2              SUB                          DB2    SYSTEM    IRLM
MEMBER    ID     SYS   CMDPREF    STATUS      LVL    NAME      SUBSYS IRLMPROC
--------  ---    ----  --------   --------    -----  --------  ----   --------
........    0    D12A  !D12A      ACTIVE      121503 CA31      I12A   D12AIRLM
------------------------------------------------------------------------------
SPT01 INLINE LENGTH:          32138
*** END DISPLAY OF GROUP(........)
DSN9022I  !D12A DSN7GCMD 'DISPLAY GROUP ' NORMAL COMPLETION
********************************* BOTTOM OF DATA ********************************
```

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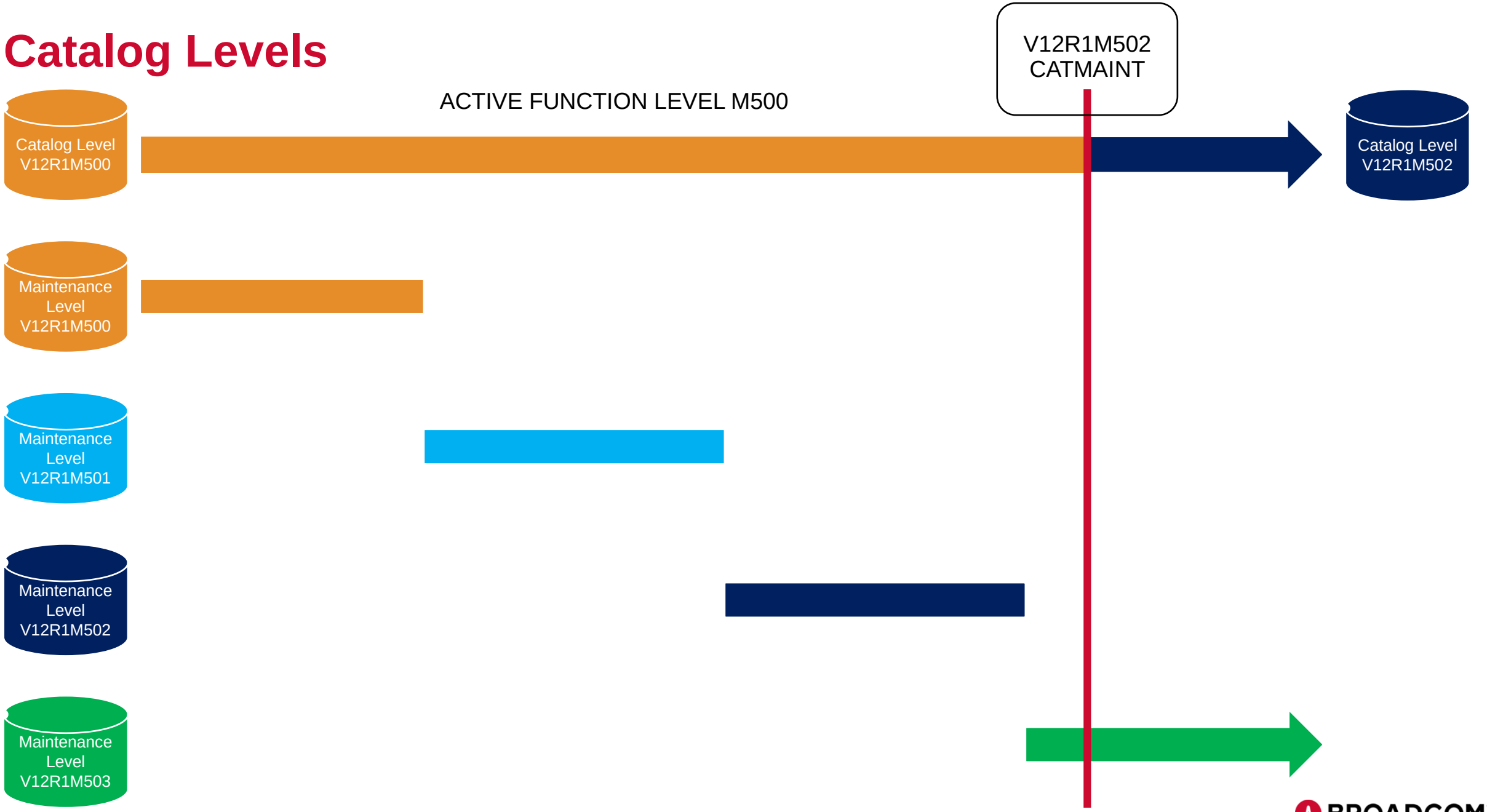
# Catalog Levels

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# Catalog Levels

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MEMBER    ID     SYS   CMDPREF    STATUS      LVL    NAME      SUBSYS IRLMPROC
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```

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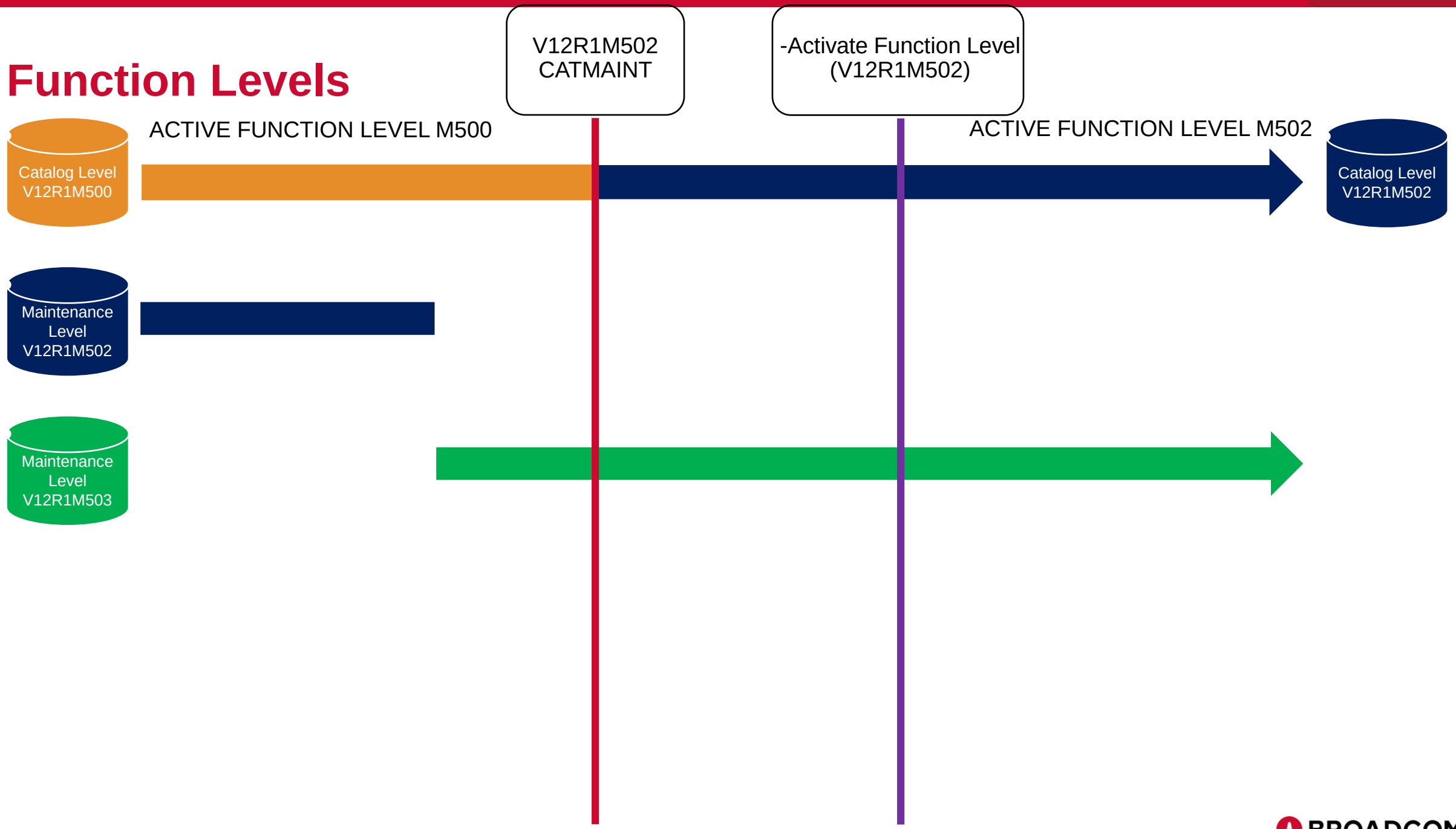
# Function Levels

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# Catalog Levels

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MEMBER    ID     SYS   CMDPREF    STATUS      LVL    NAME      SUBSYS IRLMPROC
--------  ---    ----  --------   --------    ------ --------  ----   --------
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******************************** BOTTOM OF DATA ********************************
```

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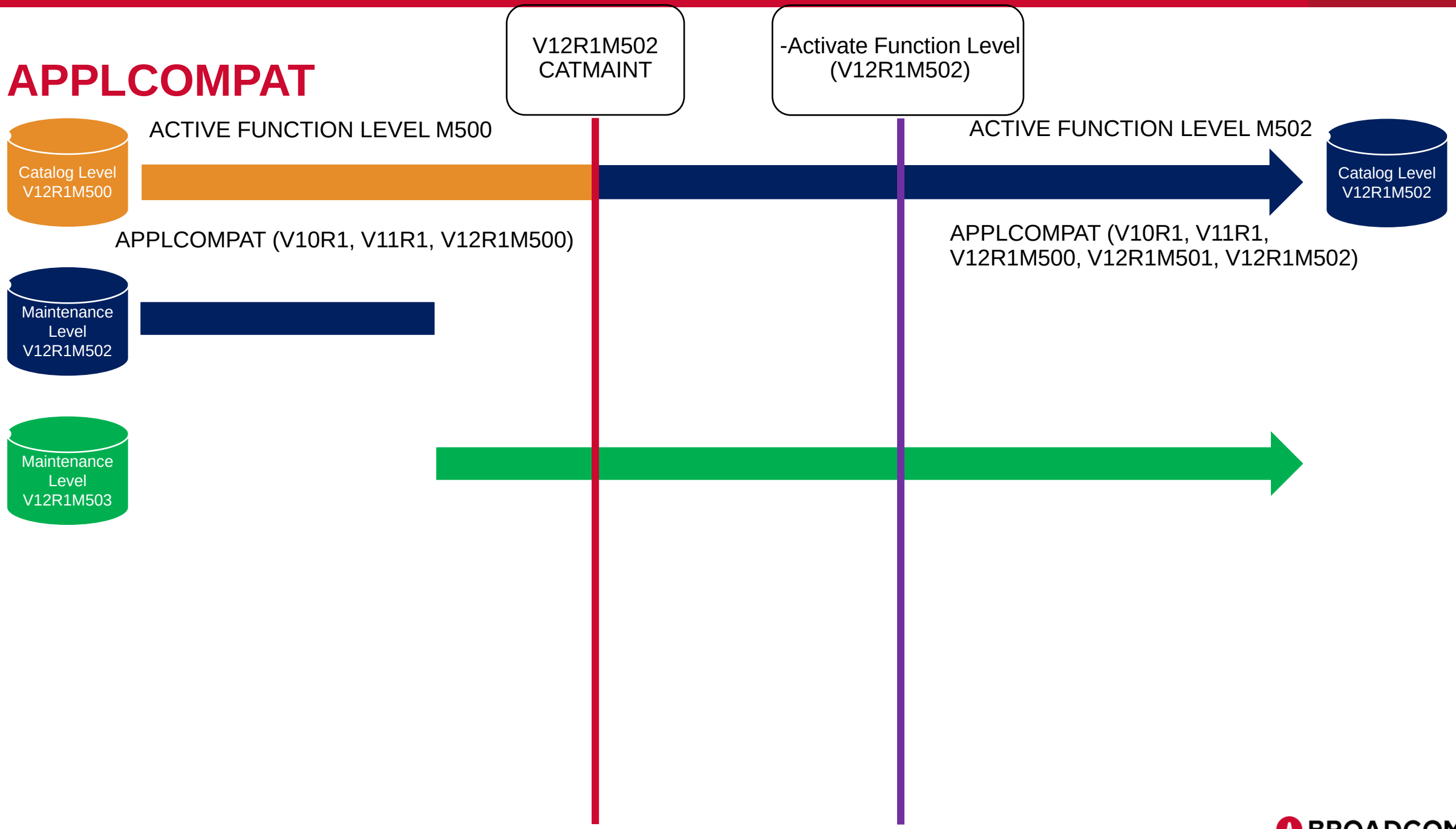
# APPLCOMPAT

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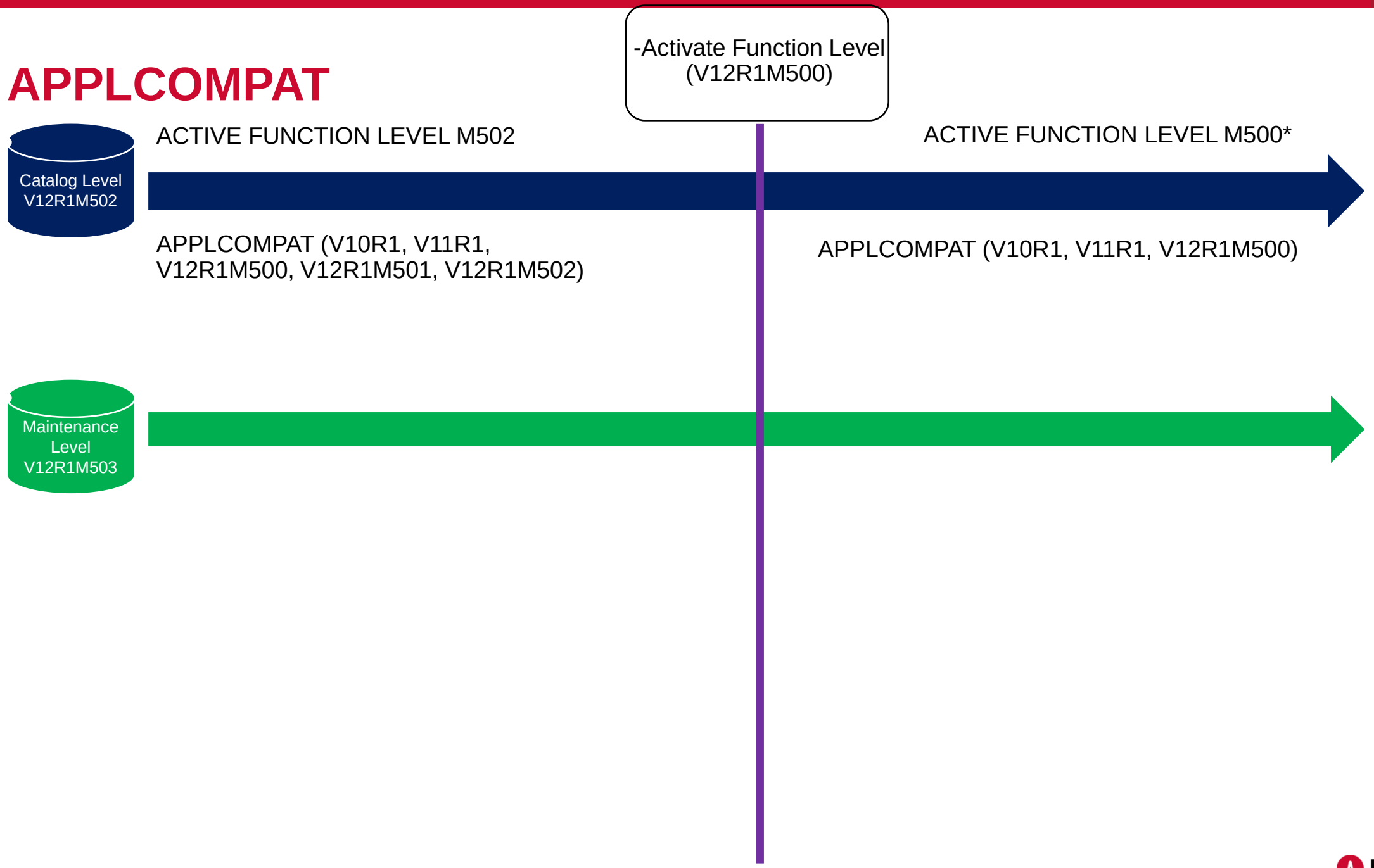
# APPLCOMPAT

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# APPLCOMPAT Surprises

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# APPLCOMPAT

3rd Party application bound with APPLCOMPAT (V12R1M500)

- Dynamic CREATE TABLE … NO KEY LABEL … ; ends with SQL ERROR
- SET CURRENT APPLICATION COMPATIBILITY = ‘V12R1M502’; ends with SQL ERROR
- Need to REBIND application with APPLCOMPAT (V12R1M502)

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# APPLCOMPAT

3rd Party application bound with APPLCOMPAT (V12R1M502)

- Dynamic CREATE TABLE … NO KEY LABEL … ; is successful
- SET CURRENT APPLICATION COMPATIBILITY = ‘V12R1M500’;
- Dynamic CREATE TABLE … NO KEY LABEL … ; ends with SQL ERROR

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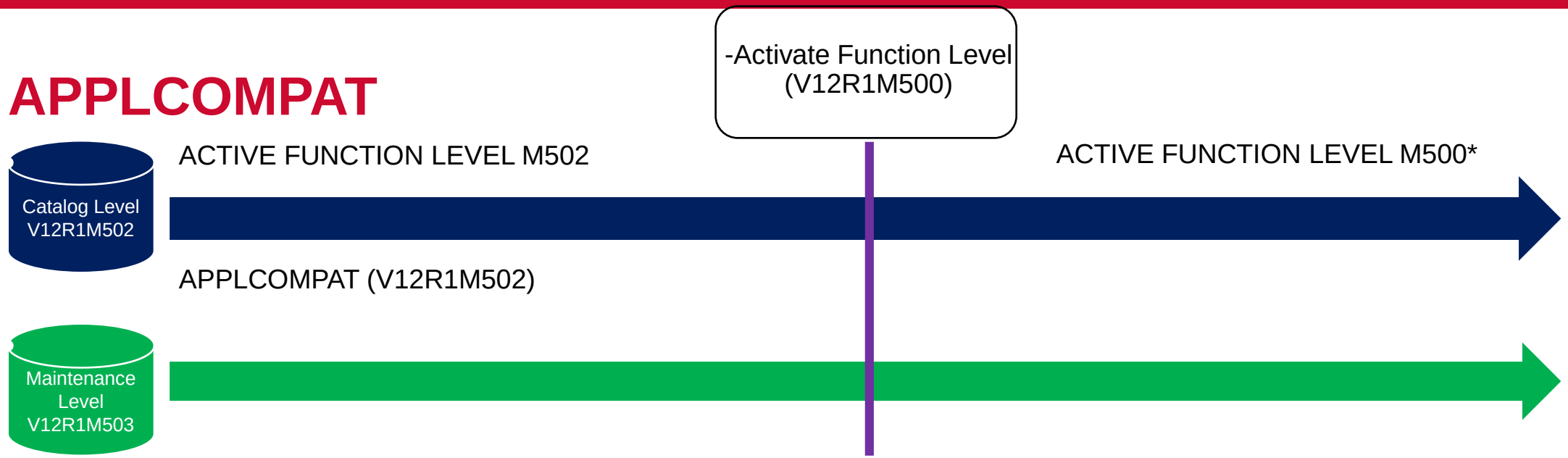
# APPLCOMPAT




3rd Party application bound with APPLCOMPAT (V12R1M502)

- Dynamic CREATE TABLE … NO KEY LABEL … ; is successful
- SET CURRENT APPLICATION COMPATIBILITY = ‘V12R1M500’;
- Dynamic CREATE TABLE … NO KEY LABEL … ; ends with SQL ERROR.
- SET CURRENT APPLICATION COMPATIBILITY = ‘V12R1M502’;

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# V12R1M504

V12R1M504 impacts creation of the following objects

- Segmented (Non-UTS) or Classic Partitioned (Non-UTS) tablespace is created as a UTS
- Synonyms cannot be created
- Hash Tables cannot be created

Leave application bound at APPLCOMPAT level lower than V12R1M504 or
SET CURRENT APPLICATION COMPATIBILITY = ‘V12R1M503’ to avoid this constraint.

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# In Summary

As you make plans to activate a new Db2 Function Level, don’t forget about your applications that will leverage the new features.  Make sure your plan includes REBINDing the impacted packages.

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# Thank You

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