

# VOLKSWAGEN

AKTIENGESELLSCHAFT



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FISP2010

FIS Policy (english)

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# 1 Introduction

The department of K-SIPB-2 is in charge of writing a Patch Policy for the FIS environment and defining an associated process. It is possible to draw on the work results for the patch management of TP 9.I UNIX and 9.VI DB2 for this purpose.

This FIS policy describes the process which is required for a periodically updated basis specification for FIS. Moreover explanations about patching the specified basis products are given.

We create this basis specification using the well established FISP20nn (FIS Platform) process.

## 2 FIS-Platform 20nn (FISP20nn)

### 2.1 Objectives for the FISP20nn

It is periodically examined which SW products could form a new basis for FIS. We refer to the definition resulting from this examination as the **FIS-Platform 20nn**, short FISP20nn, so far **FISP2007** and **FISP2010**.

The FISP20nn defines "3rd party products" (base products) for the operating system, middleware and databases which are used by FIS and which represent the runtime environment for FIS. These are, among others, the IBM products: AIX, HACMP (PowerHA System Mirror), DB2 and WAS ND (WebSphere Application Server Network Deployment).

Also affected are the FIS products, the FIS database models and other "3rd party products" such as Windows XP / 7 and tools like ssh, ...

The goal is to provide the plants with a preferably long-term stable platform for which there is sufficient manufacturer support and which nevertheless enables them to apply security and functional patches as well as to carry out SW updates.

Platform components for FIS are tested and released in a minimum version within the scope of the software maintenance.

### 2.2 Definition and release of the FISP20nn

Criteria for the selection of the new base products are:

- ✓ Stability. (Not too new, preferably at least one service pack available).
- ✓ Availability. Preferably a long lifetime, so only few migrations to newer versions are necessary at the plants within the next (at least) three years. The release of the base products is oriented towards the roadmap of the product manufacturers.
- ✓ License periods. We are coordinating with the Group License Management.

### **Proceeding:**

- Analyse of the new versions of 3rd party components for servers and clients with regard to these criteria and selection of a candidate.
- Work out the differences to the previous platform the basis of the release notes from the manufacturer (new / discontinued features, known / remedied flaws, security problems).
- Test for incompatibilities of the individual 3rd party components with regard to FIS components and among each other, definition of measures and implementation of necessary modifications.
- Define versions for the new platform.
- Update the individual components such as Java, RVS, SSH, ...
- Compile an exclusion list of out-of-date SW.
- Prepare the installation documentations.
- Create the documentation for the migration of the previous platform to the current platform.
- Define the supported FIS product versions. Provision of a compatibility matrix.
- Define the scope of testing that is required for a release.
- Define the test environment.
- System integration test of all FIS products for the new platform and release.
- Update information in the intranet:  
<http://fis.wob.vw.vwg/FISP2010.fisp2010.0.html>
- Distribute via Delivery Tracker:  
[http://fis.wob.vw.vwg/deliverytracker?funct=MASK\\_dorequest:request&fProduct=FISP](http://fis.wob.vw.vwg/deliverytracker?funct=MASK_dorequest:request&fProduct=FISP)

## 2.3 Patching of FISP20nn

The goal is to provide the plants with a preferably long-term stable platform for which there is sufficient manufacturer support and which nevertheless enables them to apply security and functional patches as well as to carry out SW updates.

The platform components for FIS are tested and released in a minimum version.

Within a release of a component, patches / security patches can be applied as required. The product manufacturer (e.g. IBM, SAP, T-Systems) is responsible for the updates being free of errors.

It is not feasible for the central FIS development department to make separate tests for each fixpack of a basis product, especially because various combinations of fixpacks of different basis products would have to be tested.

Therefore the computer operation at the production sites must read the release notes from the manufacturer and compare them against the local conditions.

Patch cycles depend on the guidelines specified by K-SIO and ISSO.

A central test system is not capable of simulating the local conditions and shop-floor connections of more than 30 plants.

**It is generally recommended to use the respectively latest ServicePacks of the standard software (AIX, HACMP, DB2) in order to avoid problems during the production.**

### 3 IBM support roadmap and FISP20nn lifetime

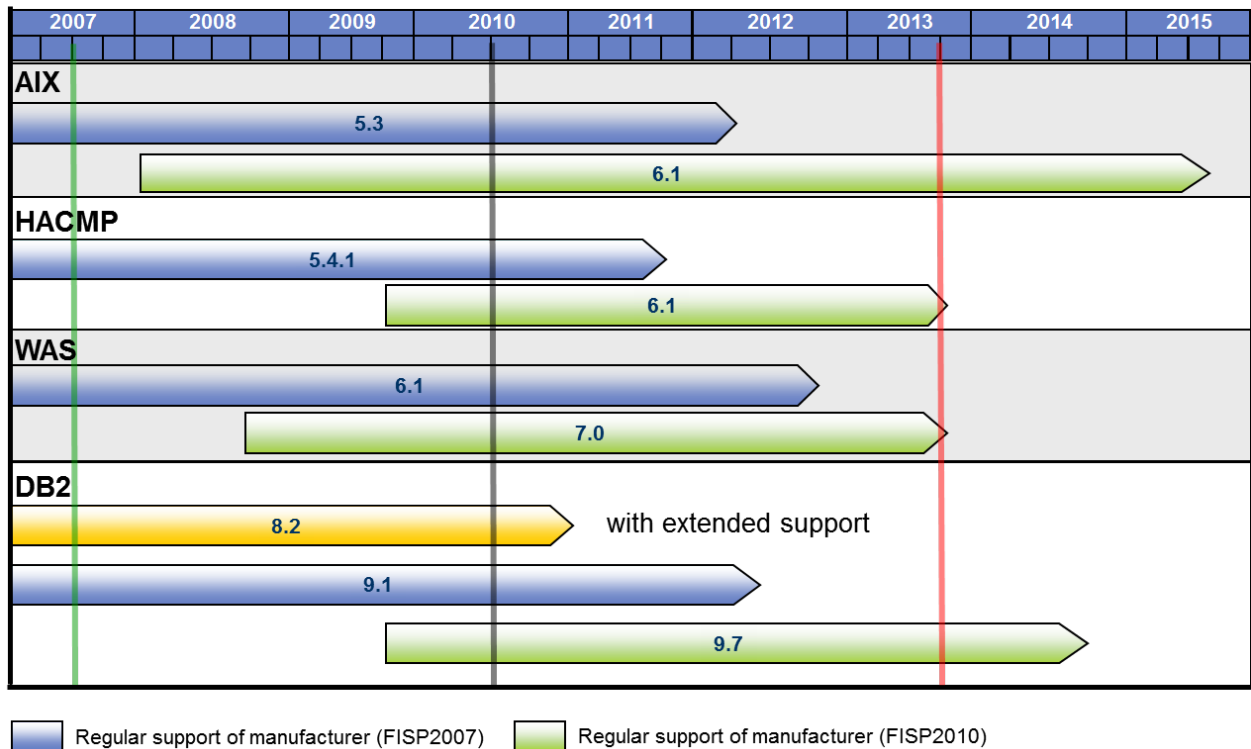


Figure 1: IBM support roadmap (date: 2012-10-02)

Objective: Long transition periods to the next bundle. Two years of transition, respectively.

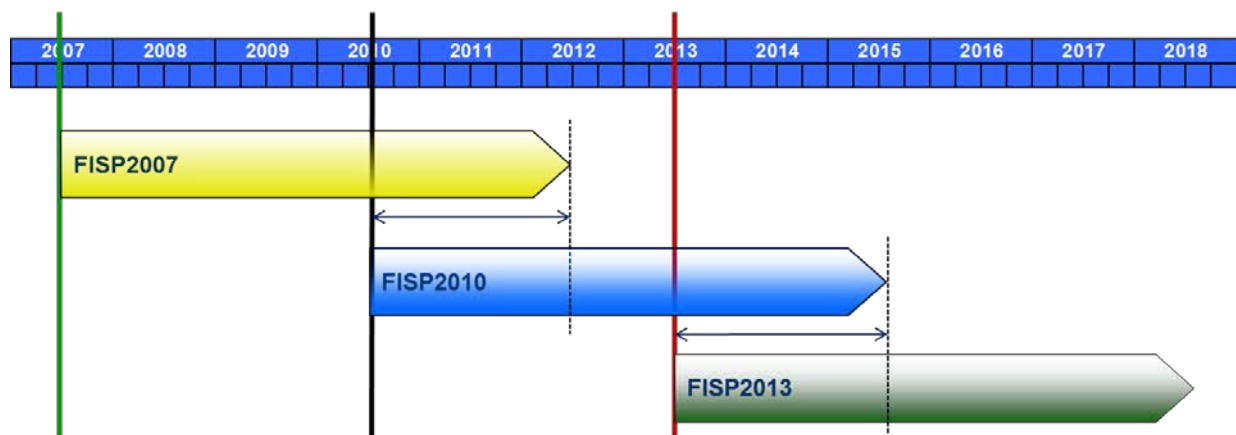


Figure 2: FISP20nn lifetime

## 4 Approach for FIS products

The FIS products are created in a defined development cycle.

Each FIS product examines what effects the modifications of the base products have on the own product, it defines measures and implements the necessary modifications.

The development (including component tests) is carried out on the basis of the still valid previous platform.

The integration and system tests that follow the development are carried out on the current as well as on the newly defined future platform.

Each product guarantees that the new product version is capable to run on the old as well as on the new platform. The basic migration route is therefore: Installation of the new FIS product version and then upgrade to the new FISP20nn version. There are known technical restrictions for some products which require a transition to the new FIS and FISP20nn version simultaneously.



# History

<b>version</b>	<b>date</b>	<b>author</b>	<b>comment</b>
1.0	2012-10-02	dp20ksn	Initial version in Word based on PowerPoint presentation „fis_policy_v01.ppt“ from 2011-10-28.