Use this self-help tool to plan and execute your WMB/IIB migration. Step through the tool by clicking on each of the blocks below as applicable.

**Step 1 - Plan your Migration**

Check Pre-reqs for your planned target version to ensure compatibility (click on blocks as applicable)

- **Broker specific Pre-Reqs**
- **Other/Related IBM Products Pre-Reqs**

**Task 1 – Determine your migration path**

**Task 2 – Prepare for your migration**

**Step 2 - Executing your Migration**

- **Task 1 – Install the Chosen Product Version**
- **Task 2a – Runtime Parallel Migration**
- **Task 2b – Runtime In-place Migration**
- **Task 2c – Migrating Development Resources**

**Supplemental Resources**

- **Useful Resources**

**Case Studies**

- **User Scenarios**
### Task 1 – Determine Your Migration Path

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>7.0.0.x</strong></td>
<td>What’s new v8</td>
<td>V8 Planning Guide</td>
<td>Technical changes in V8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Behavioral changes in V8</td>
</tr>
<tr>
<td>Out of Support</td>
<td></td>
<td></td>
<td>(Sept 30th 2015)</td>
</tr>
<tr>
<td><strong>8.0.0.x</strong></td>
<td>What’s new v9</td>
<td>V9 Planning Guide</td>
<td>Technical changes in V9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Behavioral changes in V9</td>
</tr>
<tr>
<td><strong>9.0.0.x</strong></td>
<td>What’s new v10</td>
<td>V10 Planning Guide</td>
<td>Technical changes in V10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Behavioral changes in V10</td>
</tr>
</tbody>
</table>

**Special considerations:**

WMB v8 is included as possible target migration path for completeness but is not recommended due to it’s shortened time remaining in support and the additional features, performance improvements and general benefits of v9 or v10.

When choosing your target version take into account the features included in the new version and weigh up the benefits of migrating to the latest version to decrease how often a migration may be required.

When skipping versions (for example migrating from v7 to v10) ensure you look at the What’s new for each release you skip to ensure you know all the new features you will gain.
Task 2 – Preparing for your migration

Migration Type Considerations

<table>
<thead>
<tr>
<th>Parallel Migration</th>
<th>In-Place Migration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integration nodes can be migrated in any order or can be restructured</td>
<td>Migrate your existing integration node components immediately</td>
</tr>
<tr>
<td>Potential changes to client configurations</td>
<td>No change to your client configurations</td>
</tr>
<tr>
<td>Do not need to stop existing Broker during migration process</td>
<td>Must stop your integration node while migration takes place</td>
</tr>
<tr>
<td>Can migrate to any hardware or computer</td>
<td>Must be on the same computer</td>
</tr>
<tr>
<td>Code changes can be made in parallel with migration to take advantage of any new features in product</td>
<td>Must complete migration process before making changes to the deployed items</td>
</tr>
<tr>
<td>Can choose which components to migrate in controlled manner</td>
<td>All flows and resources must be migrated in one shot</td>
</tr>
<tr>
<td>Simple rollback to prior version (and can be flow specific)</td>
<td>More complex rollback to prior version (must be all flows)</td>
</tr>
<tr>
<td>Must be used for migration from 32 bit to 64 bit architects (v10 only)</td>
<td>Does not support migration from 32 bit to 64 bit architectures (v10 only)</td>
</tr>
</tbody>
</table>

Additional notes:

Parallel Migration
You can install and configure an IBM Integration Bus Version 10.0 deployment that takes advantage of the WebSphere MQ flexibility, and then move your applications into the Version 10.0 deployment. If you have administration security configured in your current environment by using WebSphere MQ queues, and you perform parallel migration, you must recreate the equivalent administration security settings by using file-based permissions on your new integration nodes.

In-place Migration
If you are performing in-place migration from Version 7.0 or Version 8.0 and you do not have a version of WebSphere MQ that is supported by Version 10.0, you must first install a supported version of WebSphere MQ and migrate your WebSphere MQ resources to this version.

Target Version

General Migration Considerations

<table>
<thead>
<tr>
<th></th>
<th>V8</th>
<th>V9</th>
<th>V10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support cycle remaining</td>
<td>Short</td>
<td>Medium</td>
<td>Long</td>
</tr>
<tr>
<td>In-place migration</td>
<td>32bit / 64bit</td>
<td>32bit / 64bit</td>
<td>64bit</td>
</tr>
<tr>
<td>MQ required</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Published performance reports</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Single install package</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>MB Explorer (MBX) Support</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>File Authorization</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Minimum Supported MQ level</td>
<td>V7.0.1</td>
<td>V7.1</td>
<td>V7.1</td>
</tr>
</tbody>
</table>
Task 1 – Installation

Execution

1. Download the appropriate version from IBM Passport Advantage (or obtain media) for runtime and toolkit

2. Perform Installation
   - v8 Installation Guide
   - v9 Installation Guide
   - v10 Installation Guide

3. Perform Installation Verification Tests (IVT)
   - Create new Integration Node/Broker and Queue Manager
   - Create new Integration Server/Execution Group
   - Create Simple flow and deploy
   - Testing message flow
   - Delete Integration Server/Execution Group and Queue Manager

Notes
You do not need to uninstall a prior version. It is highly recommended that you do not uninstall old versions until you are confident you no longer need the prior version.

A general recommendation is to keep one prior version.

If you use the default installation location, the WMB/IIBr version will be appended to the path making it easy to determine which versions are installed and being used.

Notes (Optional)
This step is optional but recommended. We recommend to create and keep simple flow(s) for IVT purposes and use them to test new versions to ensure the installation was successful.
Task 2a – Parallel Migration

Notes

With a parallel migration you will be running both the old and new brokers / integration nodes side by side on the same machine until the entire migration is complete. It is generally recommended that you migrate a set of related flows in groups and test, repeating the process until all flows have been migrated. There is no set way to group the flows you migrate but typically they would be flows with some relationship, for example you may group by application or if each application only has a few flows you may group based on the nodes used per application.

When using parallel migration you have full control of which flows are migrated and you can do so without stopping your brokers / integration nodes but you will also have to configure your clients to use the new broker / integration node for connectivity to MQ, HTTP, SOAP, etc.

As each group of flows have been migrated to the new broker / integration node it is recommended that you stop the flows on the old broker/integration node and monitor to ensure no clients are still attempting to send messages to the old queue manager. Also, by simply stopping the flows you can simply revert to the old broker / integration node by restarting these flows and reconfiguring the client connectivity should this be required.

Once all flows have been migrated to the new broker / integration node, stop the old broker / integration ode and then the broker / integration node can be deleted. However we recommend you keep this broker / integration node until you are confident the new broker / integration node and flows have been running long enough to be sure there are no new issues encountered.

It is also recommended the old runtime be left in place even after the brokers / integration nodes have been deleted so you can quickly revert, should any issues be encountered. You can keep as many versions of WMB / IIB on your system as you wish, as long as you have the resources for them but typically keeping one prior version is sufficient.
Execution

Task 2c – Migrating Development Resources

Notes
Resources such as message / integration flow projects can be exported from earlier versions of Toolkit into later Toolkit versions. These resources are converted automatically to the Message Broker / Integration projects compatible with later version of WMB / IIB. You can then use the imported projects as the basis for a new application or library. However, some of the migrated resources may need further work before any further development can be done on them.

Migrating Toolkit resources from V7 to V8

Migrating Toolkit resources from V7 or V8 to V9

Migrating Toolkit resources from V7 or V8 or V9 to V10
Task 2b – In place Migration

Notes

With a in-place migration you must stop the broker / integration node in order to change it to run as the new version but you have to migrate all flows running on a broker / integration node in one shot. The client connections to MQ, HTTP, SOAP, etc. however do not change and therefore there is no impact to client applications.

It is recommended the old runtime be left in place after the migration at least for a period of time long enough to ensure there are no new issues encountered following the migration. You can keep as many versions of WMB / IIB on your system as you wish, as long as you have the resources for them but typically keeping one prior version is sufficient.
Supplemental Resources

- Webcasts
- Migration FAQs
- Troubleshoot problems
- dW Answers
- Technical Library
- Integration Community
- Other Resources
- Home