

Blue Prism

logging configuration policy

**Version: #.#**



Revision History

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| --- | --- | --- | --- |
| Date | Revision | Author | Description |
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Reference Training

The following guidelines will help complete training for this delivery documentation.

|  |  |
| --- | --- |
| Title | Description |
| Logging Best Practice | This document outlines the best practices on logging settings on stages in processes and objects.  Blue Prism portal path: Home> Learning> Lifecycle Orientation |

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# Introduction

The Logging Configuration Policy Document gives guidance to logging settings on stages in processes and objects for each deployment environment. A conscious use of the logging settings is key to prevent and resolve database, performance and archiving problems, as well as to address sensitive data policies.

# Logging Policy

The amount of logging performed by a process or business object can have a great effect on data storage (and consequently archive) requirements. Full logging provides a rich and highly detailed view of process activity but the storage requirements of all that data can be excessive. By contrast data can be minimised by switching logging off completely but at the expense of trace history.

## Logging Level Summary

For each environment a happy medium should be found to balance the amount of data stored, the practical use in keeping that data and the archiving strategy.

The table below shows the logging settings for type of stages in processes and objects by environment. Comments and exceptions can be detailed in the ‘Detail’ tables available in the following paragraphs.

*<Detail the logging settings for each environment. The table below includes Blue Prism recommendations>*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **BP Environment** | | |
|  | **Development** | **Test** | **Production** |
| **Object** |  |  |  |
| Decision stages | Enabled | Only Errors | Only Errors |
| Choice stages | Enabled | Only Errors | Only Errors |
| Other stages | Enabled | Only Errors | Only Errors |
| Parameter Logging | Enabled | Disabled | Disabled |
| **Process** |  |  |  |
| Work Queue 'Get Next Item' | Enabled | Enabled | Enabled |
| Parameter Logging | Enabled | Disabled | Disabled |
| **Process – Main page** |  |  |  |
| Decision stages | Enabled | Enabled | Enabled |
| Choice stages | Enabled | Enabled | Enabled |
| Other stages | Enabled | Only Errors | Only Errors |
| **Process – Other pages** |  |  |  |
| Decision stages | Enabled | Enabled | Only Errors |
| Choice stages | Enabled | Enabled | Only Errors |
| Other stages | Enabled | Only Errors | Only Errors |
| **Runtime Resource** |  |  |  |
| Logging Level | Default | Default | Default |

Several factors determine the likely volumes of data which logging will produce and therefore it’s difficult to predict the amount of disk space required to store this data. In general, a high logging level contributes to a higher amount of data per single Runtime Process execution, but this is acceptable on a development environment where the number of process executions is limited. A low logging level contributes to a lower amount of data per single Runtime Process execution, but processes run continuously on a production environment generating a high number of smaller logs.

*<Detail the amount of logging volume expected in each environment. The table below includes Blue Prism recommendations>*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **BP Environment** | | |
|  | **Development** | **Test** | **Production** |
| Logging Data Volume per Runtime Process | **High** | **Average** | **Low** |
| Total Logging Data Volume estimation | **Low** | **Low** | **Average** |

## Development Environment Details

*<Detail any exception for the development environment. The table below includes Blue Prism recommendations>*

|  |  |  |
| --- | --- | --- |
| **Development Environment** | | |
|  | **Level** | **Comment** |
| **Object** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Enabled |  |
| Parameter Logging | Enabled |  |
| **Process** |  |  |
| Work Queue 'Get Next Item' | Enabled |  |
| Parameter Logging | Enabled |  |
| **Process – Main page** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Enabled |  |
| **Process – Other pages** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Enabled |  |
| **Runtime Resource** |  |  |
| Logging Level | Default |  |

|  |  |  |
| --- | --- | --- |
| **Development Environment** | | |
|  | **Level** | **Comment** |
| Logging Data Volume per Runtime Process | **High** |  | |
| Total Logging Data Volume estimation | **Low** |  | |

## Test Environment Details

*< Detail any exception for the test environment. The table below includes Blue Prism recommendations>*

|  |  |  |
| --- | --- | --- |
| **Test Environment** | | |
|  | **Level** | **Comment** |
| **Object** |  |  |
| Decision stages | Only Errors |  |
| Choice stages | Only Errors |  |
| Other stages | Only Errors |  |
| Parameter Logging | Disabled |  |
| **Process** |  |  |
| Work Queue 'Get Next Item' | Enabled |  |
| Parameter Logging | Disabled |  |
| **Process – Main page** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Only Errors |  |
| **Process – Other pages** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Only Errors |  |
| **Runtime Resource** |  |  |
| Logging Level | Default |  |

|  |  |  |
| --- | --- | --- |
| **Test Environment** | | |
|  | **Level** | **Comment** |
| Logging Data Volume per Runtime Process | **Average** |  | |
| Total Logging Data Volume estimation | **Low** |  | |

## Production Environment Details

*< Detail any exception for the production environment. The table below includes Blue Prism recommendations>*

|  |  |  |
| --- | --- | --- |
| **Production Environment** | | |
|  | **Level** | **Comment** |
| **Object** |  |  |
| Decision stages | Only Errors |  |
| Choice stages | Only Errors |  |
| Other stages | Only Errors |  |
| Parameter Logging | Disabled |  |
| **Process** |  |  |
| Work Queue 'Get Next Item' | Enabled |  |
| Parameter Logging | Disabled |  |
| **Process – Main page** |  |  |
| Decision stages | Enabled |  |
| Choice stages | Enabled |  |
| Other stages | Only Errors |  |
| **Process – Other pages** |  |  |
| Decision stages | Only Errors |  |
| Choice stages | Only Errors |  |
| Other stages | Only Errors |  |
| **Runtime Resource** |  |  |
| Logging Level | Default |  |

|  |  |  |
| --- | --- | --- |
| **Production Environment** | | |
|  | **Level** | **Comment** |
| Logging Data Volume per Runtime Process | **Low** |  | |
| Total Logging Data Volume estimation | **Average** |  | |

### Production Environment Logging Reduction Schedule

It’s common practice to reduce production logging over time, e.g. on the first day of go-live logging levels are left high to facilitate audit of the ‘soft launch’ period. As the process settles down the logging is decreased, e.g. week 1 at 100%, week 2 at 50% etc.



|  |  |
| --- | --- |
| **Production Environment Logging Reduction Schedule** | |
|  | **Comment** |
| Go-live |  |
| Week 1 |  |
| Week 2 |  |
| Week 2 |  |
| Week 4 |  |

# Archive and Backup Policy

To maintain an efficient environment for the automated processes it is essential that logging data is archived, in accordance with any archiving policy. Leaving large amounts of data lying around in the database may be good for retaining an audit trail of events, but eventually it is going to cause performance problems with writing new data to such large tables.

Please refer to **Archive and Backup Policy** document.

The Archive and Backup Policy Document gives guidance to archiving process logs and backing up production processes and business objects. A sensible archive strategy will allow the production database size to be kept to a minimum whilst still allowing retrieval of log files should business units require them. Backing up production process and objects will provide some resilience to database failure for business critical processes.