

SAP MII 12.1/12.2 Service Interface - Monitoring



Applies to:

SAP Manufacturing Integration and Intelligence. For more information, visit the [Manufacturing homepage](#).

Summary

This article describes the SAP MII Monitoring Service.

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Indexing

The index types are the list of different items which are indexed whenever a file is saved. When calling services the index type must be specified since object names are not guaranteed to be unique across index types.

Index Type	Available	Description
credential	12.1 and later	Credential alias uses in Transactions
connection	12.1 and later	Connection alias uses in Transactions
dataserver	12.1 and later	Data server uses in Query Templates
file	12.2 and later	Transaction, Template and Manufacturing Data Object uses

The indexing service includes method for examine what is indexed as well as providing an interface to kick off and monitor an indexer. The indexer rebuilds the index information. It will run through all files in the database and re-index them. This should only be used if somehow the indexes get out of sync.

Missing

You use this mode to retrieve a list of index objects for which the object itself does not exist. For example for a data server it will retrieve a list of the data servers which are used in a query template, but that do not exist.

Request parameters

Parameter	Optional	Description
Type	No	The index type

Response

Name	Description
Name	A missing object name

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=missing&type=dataserver&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T11:59:01" EndDate="2011-11-14T11:59:01" StartDate="2011-11-14T10:59:01" Version="12.1.10 Build(13)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
    </Columns>
    <Row>
      <Name>ActivePortal</Name>
    </Row>
    <Row>
      <Name>AlarmSuite</Name>
    </Row>
    <Row>
      <Name>ISS_Tag</Name>
    </Row>
  </Rowset>
</Rowsets>
```

```

</Row>
<Row>
  <Name>InTrack</Name>
</Row>
<Row>
  <Name>MIT_PIUUDS</Name>
</Row>
<Row>
  <Name>MIT_ProcessHistorian</Name>
</Row>
<Row>
  <Name>MIT_xMIIDemo</Name>
</Row>
<Row>
  <Name>MSOLAP</Name>
</Row>
<Row>
  <Name>OLAP</Name>
</Row>
<Row>
  <Name>QualityPortal</Name>
</Row>
</Rowset>
</Rowsets>

```

ModeList

You use this mode to retrieve a list with the modes that indexing service supports.

Request parameters

It does not require any additional request parameters.

Response

Name	Description
ModeName	The mode name

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=modellist&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T11:44:37" EndDate="2011-11-14T11:44:37" StartDate="2011-11-14T10:44:37" Version="12.1.10 Build(13)">
  <Rowset>
    <Columns>
      <Column Description="ModeName" MaxRange="1" MinRange="0" Name="ModeName"
        SQLDataType="1" SourceColumn="ModeName" />
    </Columns>
    <Row>
      <ModeName>Missing</ModeName>
    </Row>
    .....
    <Row>
      <ModeName>Usage</ModeName>
    </Row>
  </Rowset>
</Rowsets>

```

Reindex

You use this mode to delete all existing indexing information and re-index the system. In order to be able to run this service the user has to have a permission to run the indexing service. The action name is **XMII_Indexer** and the roles that have this action assigned by default are **SAP_XMII_Super_Administrator** and **SAP_XMII_Administrator**.

Request parameters

This mode does not require any additional request parameters.

Response

The response is [Successful](#) or [Error](#) message.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=reindex&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T12:59:54" EndDate="2011-11-14T12:59:54" StartDate="2011-11-14T11:59:54" Version="12.1.10 Build(13)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>
```

Start

You use this mode to start the indexing service if not already started. In order to be able to run this service the user has to have a permission to run the indexing service. The action name is **XMII_Indexer** and the roles that have this action assigned by default are **SAP_XMII_Super_Administrator** and **SAP_XMII_Administrator**.

Request parameters

This mode does not require any additional request parameters.

Response

The response is [Successful](#) or [Error](#) message.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=start&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T13:03:19" EndDate="2011-11-14T13:03:19" StartDate="2011-11-14T12:03:19" Version="12.1.10 Build(13)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>
```

Status

You use this mode to view the status of the indexer and a list of the files that were indexed. This mode like Reindex and Start requires additional permissions to be run. The action name is **XMII_Indexer** and the roles that have this action assigned by default are **SAP_XMII_Super_Administrator** and **SAP_XMII_Administrator**.

Request parameters

This mode does not require any additional request parameters.

Response

Name	Description
Name	The indexed file name

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=status&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T13:03:00" EndDate="2011-11-14T13:03:00" StartDate="2011-11-14T12:03:00" Version="12.1.10 Build(13)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
    </Columns>
    <Row>
      <Name>Indexed file Predefined/AuditServiceVerify.tqte</Name>
    </Row>
    <Row>
      <Name>Indexed file Predefined/AuditServiceWriter.tqte</Name>
    </Row>
    <Row>
      <Name>Indexed file Predefined/DefaultAlarmStatisticsFrequencyChart.tdch</Name>
    </Row>
    .....
  </Rowset>
  <Messages>
    <Message>Indexer is running</Message>
    <Message>Processed 1641 of 3674 files</Message>
  </Messages>
</Rowsets>
```

Usage

You use this mode to display the files which use a specific data server, connection or credential alias. It can be used to find where a missing indexed object is used.

Request parameters

Parameter	Optional	Description
Type	No	The index type
Name	No	The name of the data server, credential or connection

Response

Name	Description
------	-------------

Name	The absolute path name
------	------------------------

Example

Request

http://localhost:50000/XMII/Illuminator?service=Indexing&Mode=usage&type=dataserver&name=MIT_xMIIDemo&content-type=text/xml

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-11-14T13:17:20" EndDate="2011-11-14T13:17:20" StartDate="2011-11-14T12:17:20" Version="12.1.10 Build(13)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
    </Columns>
    <Row>
      <Name>MII 12.0 Unit Tests/ChartRegression/SpecificTests/Batch SPC/BatchSPCQuery.tqsq</Name>
    </Row>
  </Rowset>
</Rowsets>
```

Monitoring

You use this service for retrieving statistics information for logins, file usage, server usage, etc. It can be used to determine what type of load is on a system, what is being run and how often. Monitoring data is automatically cleaned up every 30 days. You configure the retention period it through the [System Administration](#) Screen by setting a different value to **MonitoringRetentionDuration**.

DataServers

You use this mode to view the usage summary of a specific Data Server or all available Data Server. The usage statistic is provided per day. If you request the statistic information for all servers you can use all date parameters (such as StartDate, EndDate and Duration) to specify the exact time frame for the usage report. If you request usage summary for a specific Data Server you will get the summary of its usage for the configured monitoring retention period.

Request parameters

Parameter	Optional	Description
Server	yes	The Data Server which usage statistic you want to retrieve. If no server is provided then the statistic of all available Data Servers will be retrieved.
StartDate	yes	The start date for the Data Servers usage. DataServer usage before that date will not be included in the result set. The format is MM/dd/yyyy HH:mm:ss . The default value, which is used when this parameter is not provided, is EndDate - Duration . It is used only when no server parameter is provided.
EndDate	yes	The end date for the Data Servers usage. DataServer usage after that date will not be included in the result set. The format is MM/dd/yyyy HH:mm:ss . The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate +Duration

		It is used only when no server parameter is provided.
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes. It is used only when no server parameter is provided.

Response

Name	Description
RecordedDate	The date when the statistic record was created
ServerName	The data server name
NumberHits	The number of times when the data server was used on that date
RowsReturned	The number of returned rows
TimeToRun	The time used to retrieve these rows
ErrorCount	The number of errors that occurred when the data server was used
CommErrorCount	The number of communication errors.

Example: Retrieve the all available usage statistic from the latest 30000 minutes.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=DataServers&Duration=30000&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T14:55:59" EndDate="2011-12-06T14:55:59" StartDate="2011-11-15T18:55:59" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="ServerName" MaxRange="1" MinRange="0" Name="ServerName"
        SQLDataType="1" SourceColumn="ServerName" />
      <Column Description="NumberHits" MaxRange="1" MinRange="0" Name="NumberHits"
        SQLDataType="-5" SourceColumn="NumberHits" />
      <Column Description="RowsReturned" MaxRange="1" MinRange="0" Name="RowsReturned"
        SQLDataType="-5" SourceColumn="RowsReturned" />
      <Column Description="TimeToRun" MaxRange="1" MinRange="0" Name="TimeToRun" SQLDataType="-5"
        SourceColumn="TimeToRun" />
      <Column Description="ErrorCount" MaxRange="1" MinRange="0" Name="ErrorCount" SQLDataType="-5"
        SourceColumn="ErrorCount" />
      <Column Description="CommErrorCount" MaxRange="1" MinRange="0" Name="CommErrorCount"
        SQLDataType="-5" SourceColumn="CommErrorCount" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-06T00:00:00</RecordedDate>
      <ServerName>Simulator</ServerName>
      <NumberHits>4</NumberHits>
      <RowsReturned>136</RowsReturned>
      <TimeToRun>1296</TimeToRun>
      <ErrorCount>0</ErrorCount>
      <CommErrorCount>0</CommErrorCount>
    </Row>
    <Row>
      <RecordedDate>2011-12-06T00:00:00</RecordedDate>
      <ServerName>xMIIDemo</ServerName>
      <NumberHits>7</NumberHits>
      <RowsReturned>21</RowsReturned>
      <TimeToRun>76</TimeToRun>
      <ErrorCount>4</ErrorCount>
      <CommErrorCount>0</CommErrorCount>
    </Row>
  </Rowset>
</Rowsets>
```

```

</Row>
<Row>
  <RecordedDate>2011-12-01T00:00:00</RecordedDate>
  <ServerName>XacuteConnector</ServerName>
  <NumberHits>3</NumberHits>
  <RowsReturned>19</RowsReturned>
  <TimeToRun>275</TimeToRun>
  <ErrorCount>0</ErrorCount>
  <CommErrorCount>0</CommErrorCount>
</Row>
<Row>
  <RecordedDate>2011-11-29T00:00:00</RecordedDate>
  <ServerName>XacuteConnector</ServerName>
  <NumberHits>16</NumberHits>
  <RowsReturned>62</RowsReturned>
  <TimeToRun>466</TimeToRun>
  <ErrorCount>0</ErrorCount>
  <CommErrorCount>0</CommErrorCount>
</Row>
<Row>
  <RecordedDate>2011-11-28T00:00:00</RecordedDate>
  <ServerName>XacuteConnector</ServerName>
  <NumberHits>9</NumberHits>
  <RowsReturned>32</RowsReturned>
  <TimeToRun>586</TimeToRun>
  <ErrorCount>0</ErrorCount>
  <CommErrorCount>0</CommErrorCount>
</Row>
</Rowset>
</Rowsets>

```

Example: Retrieve the usage statistic for a specific Data Server.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=DataServers&Server=XacuteConnector&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T14:57:59" EndDate="2011-12-06T14:57:59" StartDate="2011-12-06T13:57:59" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="ServerName" MaxRange="1" MinRange="0" Name="ServerName"
        SQLDataType="1" SourceColumn="ServerName" />
      <Column Description="NumberHits" MaxRange="1" MinRange="0" Name="NumberHits"
        SQLDataType="-5" SourceColumn="NumberHits" />
      <Column Description="RowsReturned" MaxRange="1" MinRange="0" Name="RowsReturned"
        SQLDataType="-5" SourceColumn="RowsReturned" />
      <Column Description="TimeToRun" MaxRange="1" MinRange="0" Name="TimeToRun" SQLDataType="-5"
        SourceColumn="TimeToRun" />
      <Column Description="ErrorCount" MaxRange="1" MinRange="0" Name="ErrorCount" SQLDataType="-5"
        SourceColumn="ErrorCount" />
      <Column Description="CommErrorCount" MaxRange="1" MinRange="0" Name="CommErrorCount"
        SQLDataType="-5" SourceColumn="CommErrorCount" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-01T00:00:00</RecordedDate>
      <ServerName>XacuteConnector</ServerName>
      <NumberHits>3</NumberHits>
      <RowsReturned>19</RowsReturned>
      <TimeToRun>275</TimeToRun>
      <ErrorCount>0</ErrorCount>
      <CommErrorCount>0</CommErrorCount>
    </Row>
  </Rowset>
</Rowsets>

```

```

</Row>
<Row>
  <RecordedDate>2011-11-29T00:00:00</RecordedDate>
  <ServerName>XacuteConnector</ServerName>
  <NumberHits>16</NumberHits>
  <RowsReturned>62</RowsReturned>
  <TimeToRun>466</TimeToRun>
  <ErrorCount>0</ErrorCount>
  <CommErrorCount>0</CommErrorCount>
</Row>
<Row>
  <RecordedDate>2011-11-28T00:00:00</RecordedDate>
  <ServerName>XacuteConnector</ServerName>
  <NumberHits>9</NumberHits>
  <RowsReturned>32</RowsReturned>
  <TimeToRun>586</TimeToRun>
  <ErrorCount>0</ErrorCount>
  <CommErrorCount>0</CommErrorCount>
</Row>
</Rowset>
</Rowsets>

```

FileUsage

You use this mode to get the statistical information about the usage of a file (such as Transaction or Query). As Data Servers mode you can get all available statistics for a specific time frame and/or path, or you can get the usage statistic for a specific file.

Request parameters

Parameter	Optional	Description
ID	Yes	The file id. If this parameter is specified then only the statistic information for the requested file will be retrieved.
Path	Yes	The path. If this parameter is specified then only the statistic information for the files from the specified folder will be retrieved. This parameter takes effect only when no ID parameter is provided.
StartDate	yes	The start date for the file usage. Any usage before that date will not be included in the result set. The format is MM/dd/yyyy HH:mm:ss . The default value, which is used when this parameter is not provided, is EndDate - Duration This parameter takes effect only when no ID parameter is provided.
EndDate	yes	The end date for the file usage. Any usage after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate + Duration This parameter takes effect only when no ID parameter is provided.
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes. This parameter takes effect only when no ID parameter is provided.

Response

Name	Description
Name	The file name

NumberRuns	The number times it was run
Minimum	The minimum execution time
Maximum	The maximum execution time
Average	The average execution time.

Example: Get the available usage statistic from the latest's 6000 hours.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=FileUsage&Duration=6000&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T15:12:01" EndDate="2011-12-06T15:12:01" StartDate="2011-12-02T11:12:01" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
      <Column Description="NumberRuns" MaxRange="1" MinRange="0" Name="NumberRuns" SQLDataType="-5" SourceColumn="NumberRuns" />
      <Column Description="Minimum" MaxRange="1" MinRange="0" Name="Minimum" SQLDataType="-5" SourceColumn="Minimum" />
      <Column Description="Maximum" MaxRange="1" MinRange="0" Name="Maximum" SQLDataType="-5" SourceColumn="Maximum" />
      <Column Description="Average" MaxRange="1" MinRange="0" Name="Average" SQLDataType="-5" SourceColumn="Average" />
    </Columns>
    <Row>
      <Name>MII 12.0 Unit Tests/Actions/Data Queries/Aggregate/SimulatorAssetUtilQuery.tqta</Name>
      <NumberRuns>2</NumberRuns>
      <Minimum>65</Minimum>
      <Maximum>720</Maximum>
      <Average>392</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/Demo.trx</Name>
      <NumberRuns>18</NumberRuns>
      <Minimum>115</Minimum>
      <Maximum>2139</Maximum>
      <Average>548</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>58</NumberRuns>
      <Minimum>20</Minimum>
      <Maximum>118946</Maximum>
      <Average>4969</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS.trx</Name>
      <NumberRuns>2</NumberRuns>
      <Minimum>85</Minimum>
      <Maximum>253</Maximum>
      <Average>169</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/Demo.trx</Name>
      <NumberRuns>13</NumberRuns>
      <Minimum>167</Minimum>
      <Maximum>1448</Maximum>
      <Average>451</Average>
    </Row>
  </Rowset>
</Rowsets>
```

```

      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>11</NumberRuns>
      <Minimum>77</Minimum>
      <Maximum>196869</Maximum>
      <Average>34860</Average>
    </Row>
  </Rowset>
</Rowsets>

```

Example: Get the available usage statistic for a specific folder for the latest's 6000 hours.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=FileUsage&Duration=6000&Path=Demo/Transaction&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T15:31:17" EndDate="2011-12-06T15:31:17" StartDate="2011-12-02T11:31:17" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
      <Column Description="NumberRuns" MaxRange="1" MinRange="0" Name="NumberRuns" SQLDataType="-5" SourceColumn="NumberRuns" />
      <Column Description="Minimum" MaxRange="1" MinRange="0" Name="Minimum" SQLDataType="-5" SourceColumn="Minimum" />
      <Column Description="Maximum" MaxRange="1" MinRange="0" Name="Maximum" SQLDataType="-5" SourceColumn="Maximum" />
      <Column Description="Average" MaxRange="1" MinRange="0" Name="Average" SQLDataType="-5" SourceColumn="Average" />
    </Columns>
    <Row>
      <Name>Demo/Transaction/Demo.trx</Name>
      <NumberRuns>18</NumberRuns>
      <Minimum>115</Minimum>
      <Maximum>2139</Maximum>
      <Average>548</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>58</NumberRuns>
      <Minimum>20</Minimum>
      <Maximum>118946</Maximum>
      <Average>4969</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS.trx</Name>
      <NumberRuns>2</NumberRuns>
      <Minimum>85</Minimum>
      <Maximum>253</Maximum>
      <Average>169</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/Demo.trx</Name>
      <NumberRuns>13</NumberRuns>
      <Minimum>167</Minimum>
      <Maximum>1448</Maximum>
      <Average>451</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>11</NumberRuns>
      <Minimum>77</Minimum>
      <Maximum>196869</Maximum>
      <Average>34860</Average>
    </Row>
  </Rowset>

```

```

</Row>
</Rowset>
</Rowsets>

```

Example: Get the usage statistic for a specific file.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=FileUsage&ID=4099&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T15:26:27" EndDate="2011-12-06T15:26:27" StartDate="2011-12-06T14:26:27" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
      <Column Description="NumberRuns" MaxRange="1" MinRange="0" Name="NumberRuns" SQLDataType="-5" SourceColumn="NumberRuns" />
      <Column Description="Minimum" MaxRange="1" MinRange="0" Name="Minimum" SQLDataType="-5" SourceColumn="Minimum" />
      <Column Description="Maximum" MaxRange="1" MinRange="0" Name="Maximum" SQLDataType="-5" SourceColumn="Maximum" />
      <Column Description="Average" MaxRange="1" MinRange="0" Name="Average" SQLDataType="-5" SourceColumn="Average" />
    </Columns>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>58</NumberRuns>
      <Minimum>20</Minimum>
      <Maximum>118946</Maximum>
      <Average>4969</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>11</NumberRuns>
      <Minimum>77</Minimum>
      <Maximum>196869</Maximum>
      <Average>34860</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS_short.trx</Name>
      <NumberRuns>31</NumberRuns>
      <Minimum>11</Minimum>
      <Maximum>480291</Maximum>
      <Average>75909</Average>
    </Row>
  </Rowset>
</Rowsets>

```

FileUsageSummary

You use this mode to get a summary of the file usage summary for a specific time frame and/or path.

Request parameters

Parameter	Optional	Description
Path	Yes	The path. If this parameter is specified then only the statistic information for the files from the specified folder will be retrieved. If this parameter is not specified then the result set contains the summary of all file usage for the specified time

		frame.
StartDate	yes	The start date for the file usage. Any usage before that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value, which is used when this parameter is not provided, is EndDate - Duration
EndDate	yes	The end date for the file usage. Any usage after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate +Duration
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes.

Response

Name	Description
Name	The file name
NumberRuns	The number times it was run
Minimum	The minimum execution time
Maximum	The maximum execution time
Average	The average execution time.

Example: Get the file usage summary for a folder for the latest 6000 hours

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=FileUsageSummary&Duration=6000&Path=Demo/Transaction&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T15:43:56" EndDate="2011-12-06T15:43:56" StartDate="2011-12-02T11:43:56" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
      <Column Description="NumberRuns" MaxRange="1" MinRange="0" Name="NumberRuns" SQLDataType="-5" SourceColumn="NumberRuns" />
      <Column Description="Minimum" MaxRange="1" MinRange="0" Name="Minimum" SQLDataType="-5" SourceColumn="Minimum" />
      <Column Description="Maximum" MaxRange="1" MinRange="0" Name="Maximum" SQLDataType="-5" SourceColumn="Maximum" />
      <Column Description="Average" MaxRange="1" MinRange="0" Name="Average" SQLDataType="-5" SourceColumn="Average" />
    </Columns>
    <Row>
      <Name>Demo/Transaction/Demo.trx</Name>
      <NumberRuns>31</NumberRuns>
      <Minimum>115</Minimum>
      <Maximum>2139</Maximum>
      <Average>507</Average>
    </Row>
    <Row>
      <Name>Demo/Transaction/DemoNS.trx</Name>
      <NumberRuns>2</NumberRuns>
      <Minimum>85</Minimum>
    </Row>
  </Rowset>
</Rowsets>
```



```

    <Maximum>253</Maximum>
    <Average>169</Average>
  </Row>
  <Row>
    <Name>Demo/Transaction/DemoNS_short.trx</Name>
    <NumberRuns>69</NumberRuns>
    <Minimum>20</Minimum>
    <Maximum>196869</Maximum>
    <Average>9734</Average>
  </Row>
</Rowset>
</Rowsets>

```

Logins

You use this mode to view login information.

Request parameters

Parameter	Optional	Description
StartDate	yes	The start date for the login information. Any logins before that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value, which is used when this parameter is not provided, is EndDate - Duration
EndDate	yes	The end date for the login information. Any logins after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate +Duration
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes.

Response

Name	Description
RecordedDate	Self-explanatory
UserName	Self-explanatory
TotalLogins	Self-explanatory

Example: Get the login information for the latest 24hours.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=Logins&Duration=1440&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T16:17:39" EndDate="2011-12-06T16:17:39" StartDate="2011-12-05T16:17:39" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="Username" MaxRange="1" MinRange="0" Name="Username" SQLDataType="1"
        SourceColumn="Username" />
      <Column Description="TotalLogins" MaxRange="1" MinRange="0" Name="TotalLogins"
        SQLDataType="-5" SourceColumn="TotalLogins" />
    </Columns>
    <Row>

```

```

    <RecordedDate>2011-12-06T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <TotalLogins>1</TotalLogins>
  </Row>
  <Row>
    <RecordedDate>2011-12-05T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <TotalLogins>72</TotalLogins>
  </Row>
</Rowset>
</Rowsets>

```

LoginsSummary

You use this mode to view login summary per day for a specific user or all logins per day for a requested time frame.

Request parameters

Parameter	Optional	Description
UserName	Yes	The name of the user you want to get login summary. If you provide this parameter you will receive all available information for his/her logins summarized per day. When this parameter is not provided then the result query provides login summary for all users for a determined time frame.
StartDate	yes	The start date for the file usage. Any usage before that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value, which is used when this parameter is not provided, is EndDate - Duration It is used only when no UserName parameter is provided.
EndDate	yes	The end date for the file usage. Any usage after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate +Duration It is used only when no UserName parameter is provided.
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes. It is used only when no UserName parameter is provided.

Response

The following information is returned for every day from the specified time period:

Name	Description
RecordedDate	Self-explanatory
TotalLogins	Self-explanatory

Example: Get login summary for the Administrator.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=LoginsSummary&UserName=Administrator&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-07T16:10:24" EndDate="2011-12-07T16:10:24" StartDate="2011-12-07T15:10:24" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="TotalLogins" MaxRange="1" MinRange="0" Name="TotalLogins"
        SQLDataType="-5" SourceColumn="TotalLogins" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-07T00:00:00</RecordedDate>
      <TotalLogins>12</TotalLogins>
    </Row>
    <Row>
      <RecordedDate>2011-12-06T00:00:00</RecordedDate>
      <TotalLogins>2</TotalLogins>
    </Row>
    <Row>
      <RecordedDate>2011-12-05T00:00:00</RecordedDate>
      <TotalLogins>72</TotalLogins>
    </Row>
    ...
  </Rowset>
</Rowsets>
```

Example: Get the login summary for all users' logins for the last 24 hours.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=LoginsSummary&Duration=1440&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-07T16:10:59" EndDate="2011-12-07T16:10:59" StartDate="2011-12-06T16:10:59" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="TotalLogins" MaxRange="1" MinRange="0" Name="TotalLogins"
        SQLDataType="-5" SourceColumn="TotalLogins" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-07T00:00:00</RecordedDate>
      <TotalLogins>12</TotalLogins>
    </Row>
    <Row>
      <RecordedDate>2011-12-06T00:00:00</RecordedDate>
      <TotalLogins>2</TotalLogins>
    </Row>
  </Rowset>
</Rowsets>
```

Messages

You use this mode to retrieve Message Listener receive and process information.

Request parameters

Parameter	Optional	Description
StartDate	yes	The start date for the file usage. Any usage before that date will

		not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value, which is used when this parameter is not provided, is EndDate - Duration
EndDate	yes	The end date for the file usage. Any usage after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time, when start date is provided it is StartDate +Duration
Duration	yes	The duration of the time frame in minutes. The default duration is 60 minutes.

Response

Name	Description
RecordedDate	Self-explanatory
ServerName	The message listener name
TotalReceived	The number of received message
ProcessingErrors	The number of errors that occurred during the processing
ProcessingException	The number of exception that occurred during the processing
NoRuleDefined	The number of received messages that
MappedCategory	The message category

Example: Get the Message Listener activity summary for the last 24 hours.

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=Messages&Duration=1440&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-07T16:36:28" EndDate="2011-12-07T16:36:28" StartDate="2011-12-06T16:36:28" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="ServerName" MaxRange="1" MinRange="0" Name="ServerName"
        SQLDataType="1" SourceColumn="ServerName" />
      <Column Description="TotalReceived" MaxRange="1" MinRange="0" Name="TotalReceived"
        SQLDataType="-5" SourceColumn="TotalReceived" />
      <Column Description="ProcessingErrors" MaxRange="1" MinRange="0" Name="ProcessingErrors"
        SQLDataType="-5" SourceColumn="ProcessingErrors" />
      <Column Description="ProcessingException" MaxRange="1" MinRange="0"
        Name="ProcessingException" SQLDataType="-5" SourceColumn="ProcessingException" />
      <Column Description="NoRuleDefined" MaxRange="1" MinRange="0" Name="NoRuleDefined"
        SQLDataType="-5" SourceColumn="NoRuleDefined" />
      <Column Description="MappedCategory" MaxRange="1" MinRange="0" Name="MappedCategory"
        SQLDataType="-5" SourceColumn="MappedCategory" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-07T00:00:00</RecordedDate>
      <ServerName>XMIIIDOC01</ServerName>
      <TotalReceived>16</TotalReceived>
      <ProcessingErrors>0</ProcessingErrors>
      <ProcessingException>0</ProcessingException>
      <NoRuleDefined>0</NoRuleDefined>
      <MappedCategory>0</MappedCategory>
    </Row>
  </Rowset>
</Rowsets>
```

```
</Rowset>
</Rowsets>
```

ModeList

You can use this mode to view a list of modes supported by the Monitoring service.

Request parameters

It does not require any additional parameters.

Response

Name	Description
ModeName	The mode name

Example

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=modelist&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-06T13:27:46" EndDate="2011-12-06T13:27:46" StartDate="2011-12-06T12:27:46" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="ModeName" MaxRange="1" MinRange="0" Name="ModeName"
        SQLDataType="1" SourceColumn="ModeName" />
    </Columns>
    <Row>
      <ModeName>DataServers</ModeName>
    </Row>
    .....
    <Row>
      <ModeName>UserQuery</ModeName>
    </Row>
  </Rowset>
</Rowsets>
```

UserQuery

You use this mode to get the monitoring summary for the number of query runs and the number of returned rows. You can retrieve this information for a specified user or for a specified period.

Request parameters

Parameter	Optional	Description
UserName	Yes	The user name. If not user name is provided then this mode will return the monitoring data for a specific time frame.
StartDate	yes	The start date for the query runs summary. Any query runs before that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value, which is used when this parameter is not provided, is EndDate - Duration It is used only when no UserName parameter is provided.
EndDate	yes	The end date for the query runs summary. Any query runs after that date will not be included in the result set. The format is "MM/dd/yyyy HH:mm:ss". The default value is: <ul style="list-style-type: none"> when no start date is provided it is current time,

		<ul style="list-style-type: none"> when start date is provided it is StartDate +Duration
Duration	yes	<p>It is used only when no UserName parameter is provided.</p> <p>The duration of the time frame in minutes. The default duration is 60 minutes.</p> <p>It is used only when no UserName parameter is provided.</p>

Response

Name	Description
RecordedDate	Self-explanatory
Username	Self-explanatory
NumberRequests	The number of run queries
RowsReturned	The number of rows returned by these queries

Example: Get the query monitor information for the last 24h

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=UserQuery&Duration=1440&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-07T16:47:48" EndDate="2011-12-07T16:47:48" StartDate="2011-12-06T16:47:48" Version="12.1.10 Build(15)">
  <Rowset>
    <Columns>
      <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
        SQLDataType="93" SourceColumn="RecordedDate" />
      <Column Description="Username" MaxRange="1" MinRange="0" Name="Username" SQLDataType="1"
        SourceColumn="Username" />
      <Column Description="NumberRequests" MaxRange="1" MinRange="0" Name="NumberRequests"
        SQLDataType="-5" SourceColumn="NumberRequests" />
      <Column Description="RowsReturned" MaxRange="1" MinRange="0" Name="RowsReturned"
        SQLDataType="-5" SourceColumn="RowsReturned" />
    </Columns>
    <Row>
      <RecordedDate>2011-12-07T00:00:00</RecordedDate>
      <Username>Administrator</Username>
      <NumberRequests>3</NumberRequests>
      <RowsReturned>25</RowsReturned>
    </Row>
    <Row>
      <RecordedDate>2011-12-06T00:00:00</RecordedDate>
      <Username>Administrator</Username>
      <NumberRequests>7</NumberRequests>
      <RowsReturned>157</RowsReturned>
    </Row>
  </Rowset>
</Rowsets>
```

Example: Gets the query monitoring information for the Administrator user

Request

<http://localhost:50000/XMII/Illuminator?service=Monitoring&Mode=UserQuery&UserName=Administrator&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-12-07T16:48:17" EndDate="2011-12-07T16:48:17" StartDate="2011-12-07T15:48:17" Version="12.1.10 Build(15)">
```

```

<Rowset>
  <Columns>
    <Column Description="RecordedDate" MaxRange="1" MinRange="0" Name="RecordedDate"
    SQLDataType="93" SourceColumn="RecordedDate" />
    <Column Description="Username" MaxRange="1" MinRange="0" Name="Username" SQLDataType="1"
    SourceColumn="Username" />
    <Column Description="NumberRequests" MaxRange="1" MinRange="0" Name="NumberRequests"
    SQLDataType="-5" SourceColumn="NumberRequests" />
    <Column Description="RowsReturned" MaxRange="1" MinRange="0" Name="RowsReturned"
    SQLDataType="-5" SourceColumn="RowsReturned" />
  </Columns>
  <Row>
    <RecordedDate>2011-12-07T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <NumberRequests>3</NumberRequests>
    <RowsReturned>25</RowsReturned>
  </Row>
  <Row>
    <RecordedDate>2011-12-06T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <NumberRequests>7</NumberRequests>
    <RowsReturned>157</RowsReturned>
  </Row>
  <Row>
    <RecordedDate>2011-12-01T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <NumberRequests>3</NumberRequests>
    <RowsReturned>19</RowsReturned>
  </Row>
  <Row>
    <RecordedDate>2011-11-29T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <NumberRequests>16</NumberRequests>
    <RowsReturned>62</RowsReturned>
  </Row>
  <Row>
    <RecordedDate>2011-11-28T00:00:00</RecordedDate>
    <Username>Administrator</Username>
    <NumberRequests>9</NumberRequests>
    <RowsReturned>32</RowsReturned>
  </Row>
</Rowset>
</Rowsets>

```

BLSManager

BLSManager service provides access to the Transaction Manager data as well as providing some general interfaces.

The action required to access BLSManager is **XMII_BLSManagerService**. The roles that have this action assigned by default are **SAP_XMII_Super_Administrator** and **SAP_XMII_Administrator**.

ClearCache

You use this mode to clear the transaction cache. It does not require any additional parameters. The response provides information if the operation was successful or not. ClearCache mode requires additional permission, in order to clear the case the user has to have **XMII_Transaction_Delete** in his profile.

Request parameters

This mode does not require any additional parameters.

Response

The response contains successful or error message, no data is returned in the response.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=ClearCache&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-08-05T11:09:57" EndDate="2011-08-05T11:09:57" StartDate="2011-08-05T10:09:57" Version="12.1.9 Build(108)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>
```

Delete

You use this mode to delete a transaction entry from the Transaction Manager database. The response provides information if the operation was successful or not.

This mode requires additional permission, in order to be able to delete an entry the user must have **XMII_Transaction_Delete** or **XMII_Transaction_all** actions assigned to his profile.

Request parameters

Parameter	Optional	Description
ID	No	The id of the transaction that should be deleted from the Transaction Manager.
Force	Yes	You can use this parameter to indicate that the entry can be deleted even if the transaction is in a running state. The parameter value in this case should be "True". The default value is "False", which means that the transaction can be deleted only if its status is Succeeded, Failed, Terminated or Pending.

Response

The response contains successful or error message, no data is returned in the response.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=Delete&id=139&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T14:28:45" EndDate="2011-09-21T14:28:42" StartDate="2011-09-21T13:28:42" Version="12.1.9 Build(112)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>
```

Details

You use this mode to view the details of a transaction entry stored in the Transaction Manager database.

Request parameters

Parameter	Optional	Description
ID	No	The transaction id

Response

The following information is returned in a rowset:

Name	Description
NAME	The transaction name
SERVER	The server where the transaction was ran
STATUS	The transaction status
RUNTIME	The transaction mode - synchronous or asynchronous
RUNNING_USER	The user who ran the transaction
START_TIME	The time when the transaction began its execution
END_TIME	The time when the transaction ended its execution
DURATION	The duration of transaction execution
LOG	The transaction traces

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLManager&mode=Details&id=138&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T14:39:59" EndDate="2011-09-21T14:37:50" StartDate="2011-09-21T13:37:50" Version="12.1.9 Build(112)">
  <Rowset>
    <Columns>
      <Column Description="NAME" MaxRange="1" MinRange="0" Name="NAME" SQLDataType="12" SourceColumn="NAME" />
      <Column Description="SERVER" MaxRange="1" MinRange="0" Name="SERVER" SQLDataType="12" SourceColumn="SERVER" />
      <Column Description="STATUS" MaxRange="1" MinRange="0" Name="STATUS" SQLDataType="12" SourceColumn="STATUS" />
      <Column Description="RUNTIME" MaxRange="1" MinRange="0" Name="RUNTIME" SQLDataType="12" SourceColumn="RUNTIME" />
      <Column Description="RUNNING_USER" MaxRange="1" MinRange="0" Name="RUNNING_USER" SQLDataType="12" SourceColumn="RUNNING_USER" />
      <Column Description="STARTTIME" MaxRange="1" MinRange="0" Name="STARTTIME" SQLDataType="93" SourceColumn="STARTTIME" />
      <Column Description="ENDTIME" MaxRange="1" MinRange="0" Name="ENDTIME" SQLDataType="93" SourceColumn="ENDTIME" />
      <Column Description="DURATION" MaxRange="1" MinRange="0" Name="DURATION" SQLDataType="5" SourceColumn="DURATION" />
      <Column Description="EXPIRATION" MaxRange="1" MinRange="0" Name="EXPIRATION" SQLDataType="93" SourceColumn="EXPIRATION" />
      <Column Description="LOG" MaxRange="1" MinRange="0" Name="LOG" SQLDataType="12" SourceColumn="LOG" />
    </Columns>
    <Row>
      <NAME>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</NAME>
      <SERVER>PHLD00473530A_NKG_02</SERVER>
      <STATUS>Succeeded</STATUS>
      <RUNTIME>Sync</RUNTIME>
      <RUNNING_USER>SYSTEM</RUNNING_USER>
      <STARTTIME>2011-09-21T13:15:55</STARTTIME>
      <ENDTIME>2011-09-21T13:15:56</ENDTIME>
      <DURATION>1260</DURATION>
      <EXPIRATION>2011-09-21T21:15:56</EXPIRATION>
      <LOG><?xml version="1.0" encoding="UTF-8" ?><Rowsets DateCreated="2011-09-21T13:15:56" EndDate="2011-09-21T13:15:56" StartDate="2011-09-21T13:15:56"

```

```

Version="12.1.9 Build(112)"
TransactionID="138"><Messages></Messages></Rowsets></LOG>
</Row>
</Rowset>
</Rowsets>

```

FixHighExpiringTransactions

You use this mode to check for high expiring transactions. Transactions that are found with high expiring values will be corrected as well the expiration value for any transaction that calls that transaction. It does not have any additional parameters and response provides information if the operation was successful or not.

This mode requires additional permission; the user must have **XMII_Transaction_Delete** or **XMII_Transaction_all** actions assigned to his profile.

It is available in **SP08** and newer. See note 1517887 for additional details.

Request parameters

This mode does not require any additional parameters.

Response

The response contains successful or error message, no data is returned in the response.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLManager&mode=FixHighExpiringTransactions&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T14:53:15" EndDate="2011-09-21T14:53:06" StartDate="2011-09-21T13:53:06" Version="12.1.9 Build(112)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>

```

List

You use this mode to see a list of pending and processed transactions stored in the Transaction Manager database. This mode accepts a number of parameters that you can provide in order to restrict the returned set. The response will contain only these entries that match the provided parameters.

Request parameters

Parameter	Optional	Description
Name	Yes	The transaction name. If you provide a transaction name the result set will contain only the records for the requested transaction.
UserName	Yes	The name of the user who ran the transaction
Status	Yes	The status of the transaction. The values that are accepted are numbers and they are: <ul style="list-style-type: none"> • -2 for Invalid status • -1 for Pending status • 0 for Running status • 1 for Break status

		<ul style="list-style-type: none"> • 2 for Succeeded status • 3 for Failed status • 4 for Terminated status
StartDate	Yes	The start date. Transactions ran before that date will not be included in the result set. The format is MM/dd/yyyy HH:mm:ss . The default value, which is used when this parameter is not provided, is EndDate - Duration
EndDate	Yes	The end date. Transactions ran after that date will not be included in the result set. The format is MM/dd/yyyy HH:mm:ss . The default value is: <ul style="list-style-type: none"> • when no start date is provided it is current time, • when start date is provided it is StartDate +Duration
Duration	Yes	The duration of the time frame in minutes. The default duration is 60 minutes.

Response

The following information is returned for every transaction that matches the provided criteria:

Name	Description
ID	The identifier assigned by the system for the transaction
NAME	The transaction name
SERVER	The server where the transaction was ran
STATUS	The transaction status
RUNTIME	The transaction mode – synchronous or asynchronous
RUNNING_USED	The user who ran the transaction
STARTTIME	The time when the transaction began its execution
ENDTIME	The time when the transaction ended its execution
DURATION	The duration of transaction execution
EXPIRATION	The time when the transaction entry will expire and will be removed from the transaction manager

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=List&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-08-05T11:23:14" EndDate="2011-08-05T11:23:14" StartDate="2011-08-05T10:23:14" Version="12.1.9 Build(108)">
  <Rowset>
    <Columns>
      <Column Description="ID" MaxRange="1" MinRange="0" Name="ID" SQLDataType="4"
        SourceColumn="ID" />
      <Column Description="NAME" MaxRange="1" MinRange="0" Name="NAME" SQLDataType="12"
        SourceColumn="NAME" />
      <Column Description="SERVER" MaxRange="1" MinRange="0" Name="SERVER" SQLDataType="12"
        SourceColumn="SERVER" />
      <Column Description="STATUS" MaxRange="1" MinRange="0" Name="STATUS" SQLDataType="12"
        SourceColumn="STATUS" />
      <Column Description="RUNTIME" MaxRange="1" MinRange="0" Name="RUNTIME" SQLDataType="12"
        SourceColumn="RUNTIME" />
    </Columns>
  </Rowset>
</Rowsets>
```

```

<Column Description="RUNNING_USER" MaxRange="1" MinRange="0" Name="RUNNING_USER"
SQLDataType="12" SourceColumn="RUNNING_USER" />
<Column Description="STARTTIME" MaxRange="1" MinRange="0" Name="STARTTIME"
SQLDataType="93" SourceColumn="STARTTIME" />
<Column Description="ENDTIME" MaxRange="1" MinRange="0" Name="ENDTIME" SQLDataType="93"
SourceColumn="ENDTIME" />
<Column Description="DURATION" MaxRange="1" MinRange="0" Name="DURATION" SQLDataType="-
5" SourceColumn="DURATION" />
<Column Description="EXPIRATION" MaxRange="1" MinRange="0" Name="EXPIRATION"
SQLDataType="93" SourceColumn="EXPIRATION" />
</Columns>
<Row>
  <ID>86805</ID>
  <NAME>MyProject/TracerOutputTesting/TracerOutputTest.trx</NAME>
  <SERVER>PHLN00485290B_LKG_00</SERVER>
  <STATUS>Succeeded</STATUS>
  <RUNTIME>Sync</RUNTIME>
  <RUNNING_USER>SYSTEM</RUNNING_USER>
  <STARTTIME>2011-08-05T11:23:01</STARTTIME>
  <ENDTIME>2011-08-05T11:23:01</ENDTIME>
  <DURATION>0</DURATION>
  <EXPIRATION>2011-08-05T19:23:01</EXPIRATION>
</Row>
<Row>
  <ID>86804</ID>
  <NAME>MyProject/TracerOutputTesting/TracerOutputTest.trx</NAME>
  <SERVER>PHLN00485290B_LKG_00</SERVER>
  <STATUS>Succeeded</STATUS>
  <RUNTIME>Sync</RUNTIME>
  <RUNNING_USER>SYSTEM</RUNNING_USER>
  <STARTTIME>2011-08-05T11:22:00</STARTTIME>
  <ENDTIME>2011-08-05T11:22:00</ENDTIME>
  <DURATION>1</DURATION>
  <EXPIRATION>2011-08-05T19:22:00</EXPIRATION>
</Row>
</Rowset>
</Rowsets>

```

ModeList

You use that mode to view a list of all service modes that BLSManager service provides. It does not have any additional parameters.

Reuquest parameters

This mode does not require any additional parameters.

Response

Returns a rowset with the supported modes:

Name	Description
ModeName	The mode name

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=ModeList&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-08-05T10:39:39" EndDate="2011-08-05T10:39:39" StartDate="2011-08-
05T09:39:39" Version="12.1.9 Build(108)">
  <Rowset>
    <Columns>

```

```

      <Column Description="ModeName" MaxRange="1" MinRange="0" Name="ModeName"
      SQLDataType="1" SourceColumn="ModeName" />
    </Columns>
    <Row>
      <ModeName>ClearCache</ModeName>
    </Row>
    .....
    <Row>
      <ModeName>ViewOutput</ModeName>
    </Row>
  </Rowset>
</Rowsets>

```

Stats

You use this mode to view performance statistic for a transaction. Performance statistics are introduced with **SP06**. Transaction statistics can be generated by running transactions from the runner servlet. Passing the parameter **LogStatisticsToDB=true** will force the log level to **DEBUG** and the persistence of the transaction and all sub transactions to **ALWAYS**. This allows MII BLS to track the runtime of links and actions and persist them to the database. This information is tied to the data in the transaction manager table. When the entry is deleted from the transaction manager the performance information is also deleted.

To run a transaction with statistics enabled:

<http://<server>:<port>/XMII/Runner?Transaction=<myproject/transname>&LogStatisticsToDB=true>

Request parameters

Parameter	Optional	Description
ID	No	The transaction id

Response

The following information will be returned for all the actions and links which were run in the root transaction and in all sub-transactions.

Name	Description
ID	The transaction ID
TransactionName	The transaction name
RootID	The root transaction ID
ParentID	The parent transaction ID
ActionName	The action name
Destination	Link destination (for links only)
Average	Average execution time in milliseconds
Minimum	Minimum execution time in milliseconds
Maximum	Maximum execution time in milliseconds
Total	Total execution time in milliseconds
Count	Number of times it was run

Please note that the data is per transaction. So if a transaction was called multiple times the values will be calculated for each run and not accumulated. Also there are no values recorded for control actions since they are considered negligible. Another item of interest would be that for actions like the transaction call action, their execution time is the total time to run the sub transaction.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSSManager&mode=stats&id=143&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T15:39:19" EndDate="2011-09-21T15:39:19" StartDate="2011-09-21T14:39:19" Version="12.1.9 Build(112)">
  <Rowset>
    <Columns>
      <Column Description="ID" MaxRange="1" MinRange="0" Name="ID" SQLDataType="-5" SourceColumn="ID" />
      <Column Description="TransactionName" MaxRange="1" MinRange="0" Name="TransactionName" SQLDataType="12" SourceColumn="TransactionName" />
      <Column Description="RootID" MaxRange="1" MinRange="0" Name="RootID" SQLDataType="-5" SourceColumn="RootID" />
      <Column Description="ParentID" MaxRange="1" MinRange="0" Name="ParentID" SQLDataType="-5" SourceColumn="ParentID" />
      <Column Description="ActionName" MaxRange="1" MinRange="0" Name="ActionName" SQLDataType="12" SourceColumn="ActionName" />
      <Column Description="Destination" MaxRange="1" MinRange="0" Name="Destination" SQLDataType="12" SourceColumn="Destination" />
      <Column Description="Average" MaxRange="1" MinRange="0" Name="Average" SQLDataType="8" SourceColumn="Average" />
      <Column Description="Minimum" MaxRange="1" MinRange="0" Name="Minimum" SQLDataType="8" SourceColumn="Minimum" />
      <Column Description="Maximum" MaxRange="1" MinRange="0" Name="Maximum" SQLDataType="8" SourceColumn="Maximum" />
      <Column Description="Total" MaxRange="1" MinRange="0" Name="Total" SQLDataType="8" SourceColumn="Total" />
      <Column Description="Count" MaxRange="1" MinRange="0" Name="Count" SQLDataType="-5" SourceColumn="Count" />
    </Columns>
    <Row>
      <ID>143</ID>
      <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
      <RootID>143</RootID>
      <ParentID>143</ParentID>
      <ActionName>SAP_JRA_Function_Availability</ActionName>
      <Destination>---</Destination>
      <Average>605</Average>
      <Minimum>605</Minimum>
      <Maximum>605</Maximum>
      <Total>605</Total>
      <Count>1</Count>
    </Row>
    <Row>
      <ID>143</ID>
      <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
      <RootID>143</RootID>
      <ParentID>143</ParentID>
      <ActionName>SAP_JRA_Function_CheckExists</ActionName>
      <Destination>---</Destination>
      <Average>515</Average>
      <Minimum>515</Minimum>
      <Maximum>515</Maximum>
      <Total>515</Total>
      <Count>1</Count>
    </Row>
    <Row>
      <ID>143</ID>
      <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
      <RootID>143</RootID>
      <ParentID>143</ParentID>
      <ActionName>SAP_JRA_End_Session_0</ActionName>
      <Destination>---</Destination>
      <Average>106</Average>
      <Minimum>106</Minimum>
      <Maximum>106</Maximum>
      <Total>106</Total>
      <Count>1</Count>
    </Row>
  </Rowset>

```

```

<Row>
  <ID>143</ID>
  <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
  <RootID>143</RootID>
  <ParentID>143</ParentID>
  <ActionName>SAP_JRA_Function_Availability</ActionName>
  <Destination>SAP_JRA_Function_Availability.Request{/BAPI_MATERIAL_AVAILABILITY/INPUT/MATERIAL}</Destination>
  <Average>2</Average>
  <Minimum>2</Minimum>
  <Maximum>2</Maximum>
  <Total>8</Total>
  <Count>4</Count>
</Row>
<Row>
  <ID>143</ID>
  <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
  <RootID>143</RootID>
  <ParentID>143</ParentID>
  <ActionName>Conditional_1</ActionName>
  <Destination>Conditional_1.Input1</Destination>
  <Average>2</Average>
  <Minimum>2</Minimum>
  <Maximum>2</Maximum>
  <Total>2</Total>
  <Count>1</Count>
</Row>
<Row>
  <ID>143</ID>
  <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
  <RootID>143</RootID>
  <ParentID>143</ParentID>
  <ActionName>Conditional_0</ActionName>
  <Destination>Conditional_0.Input1</Destination>
  <Average>2</Average>
  <Minimum>2</Minimum>
  <Maximum>2</Maximum>
  <Total>2</Total>
  <Count>1</Count>
</Row>
<Row>
  <ID>143</ID>
  <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
  <RootID>143</RootID>
  <ParentID>143</ParentID>
  <ActionName>SAP_JRA_Function_CheckExists</ActionName>
  <Destination>SAP_JRA_Function_CheckExists.Request{/BAPI_MATERIAL_EXISTENCECHECK/INPUT/MATERIAL}</Destination>
  <Average>2</Average>
  <Minimum>2</Minimum>
  <Maximum>2</Maximum>
  <Total>2</Total>
  <Count>1</Count>
</Row>
<Row>
  <ID>143</ID>
  <TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
  <RootID>143</RootID>
  <ParentID>143</ParentID>
  <ActionName>Tracer_MATERIAL_AVAILABILITY</ActionName>
  <Destination>----</Destination>
  <Average>0</Average>
  <Minimum>0</Minimum>
  <Maximum>0</Maximum>
  <Total>0</Total>
  <Count>1</Count>
</Row>
<Row>

```

```

<ID>143</ID>
<TransactionName>ERPIntegration/JRA/MaterialAvailabilityJRASession.trx</TransactionName>
<RootID>143</RootID>
<ParentID>143</ParentID>
<ActionName>SAP_JRA_Start_Session_0</ActionName>
<Destination>----</Destination>
<Average>0</Average>
<Minimum>0</Minimum>
<Maximum>0</Maximum>
<Total>0</Total>
<Count>1</Count>
</Row>
</Rowset>
</Rowsets>

```

Terminate

You use this mode to terminate a transaction. The response provides information if the operation was successful or not.

This mode requires additional permission; the user must have **XMII_Transaction_Delete** or **XMII_Transaction_all** actions assigned to his profile

Request parameters

Parameter	Optional	Description
ID	No	The transaction id
Reason	Yes	The reason for the transaction termination

Response

The response contains successful or error message, no data is returned in the response.

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=terminate&id=142&content-type=text/xml>

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T15:57:36" EndDate="2011-09-21T15:57:36" StartDate="2011-09-21T14:57:36" Version="12.1.9 Build(112)">
  <Messages>
    <Message>Successful</Message>
  </Messages>
</Rowsets>

```

ViewCache

You use this mode to view the content of the transaction cache.

Response

This service returns a list of all the transaction that is in the transaction cache. The information provided for every one of these entries is:

Name	Description
Name	The name of the transaction
LastRunTime	The last time when it was run
Expiration	The time until the entry will remains in the transaction cache
Runs	How many times the transaction was run

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=ViewCache&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-08-05T11:09:17" EndDate="2011-08-05T11:09:17" StartDate="2011-08-05T10:09:17" Version="12.1.9 Build(108)">
  <Rowset>
    <Columns>
      <Column Description="Name" MaxRange="1" MinRange="0" Name="Name" SQLDataType="12" SourceColumn="Name" />
      <Column Description="LastRunTime" MaxRange="1" MinRange="0" Name="LastRunTime" SQLDataType="93" SourceColumn="LastRunTime" />
      <Column Description="Expiration" MaxRange="1" MinRange="0" Name="Expiration" SQLDataType="93" SourceColumn="Expiration" />
      <Column Description="Runs" MaxRange="1" MinRange="0" Name="Runs" SQLDataType="4" SourceColumn="Runs" />
    </Columns>
    <Row>
      <Name>MyProject/TracerOutputTesting/TracerOutputTest.trx</Name>
      <LastRunTime>2011-08-05T11:09:01</LastRunTime>
      <Expiration>2011-08-05T13:09:01</Expiration>
      <Runs>14</Runs>
    </Row>
  </Rowset>
</Rowsets>
```

ViewLog

You use this mode to view the log of a transaction stored in the Transaction Manager.

Request parameters

Parameter	Optional	Description
ID	No	The transaction ID

Response

The result contains all log entries that were created during the execution of the transaction.

Name	Description
Message	A log entry

Example

Request

<http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=viewlog&id=164&content-type=text/xml>

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T16:35:28" EndDate="2011-09-21T16:35:28" StartDate="2011-09-21T15:35:28" Version="12.1.9 Build(112)">
  <Rowset>
    <Columns>
      <Column Description="Message" MaxRange="1" MinRange="0" Name="Message" SQLDataType="12" SourceColumn="Message" />
    </Columns>
    <Row>
      <Message>[INFO] [Tracer_MATERIAL_AVAILABILITY]448.000</Message>
    </Row>
  </Rowset>
</Rowsets>
```

```

<Row>
  <Message>[INFO] Statistics [Load = 0 ms msec, Parse = 1 ms, Execution = 1212 ms, Total =
    1228 ms]</Message>
</Row>
</Rowset>
</Rowsets>

```

ViewOutput

You use this mode to view the output of a transaction stored in the Transaction Manager. If you want the output of the transaction to be stored you have to run it with request parameter **StoreTransactionOutput** set to true. If you have executed the transaction with request parameter OutputParameter set to the list of output parameter, the output parameter will be shown in the output too.

Request parameters

Parameter	Optional	Description
ID	No	The transaction ID

Response

The response contains the transaction output. A rowset with the following information is returned:

Name	Description
Message	A single line of the transaction output

Example

Request

http://localhost:50000/XMII/Illuminator?service=BLSManager&mode=viewoutput&id=164&content-type=text/xml

Response

```

<?xml version="1.0" encoding="UTF-8" ?>
<Rowsets DateCreated="2011-09-21T16:33:25" EndDate="2011-09-21T16:33:25" StartDate="2011-09-
21T16:33:25" Version="12.1.9 Build(112)" TransactionID="164">
  <Messages>
    <Message level="INFO">[INFO] [Tracer_MATERIAL_AVAILABILITY]448.000</Message>
    <Message level="INFO">[INFO] Statistics [Load = 0 ms msec, Parse = 1 ms, Execution = 1212 ms,
      Total = 1228 ms]</Message>
  </Messages>
</Rowsets>

```

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