

# Create a Batch API Key

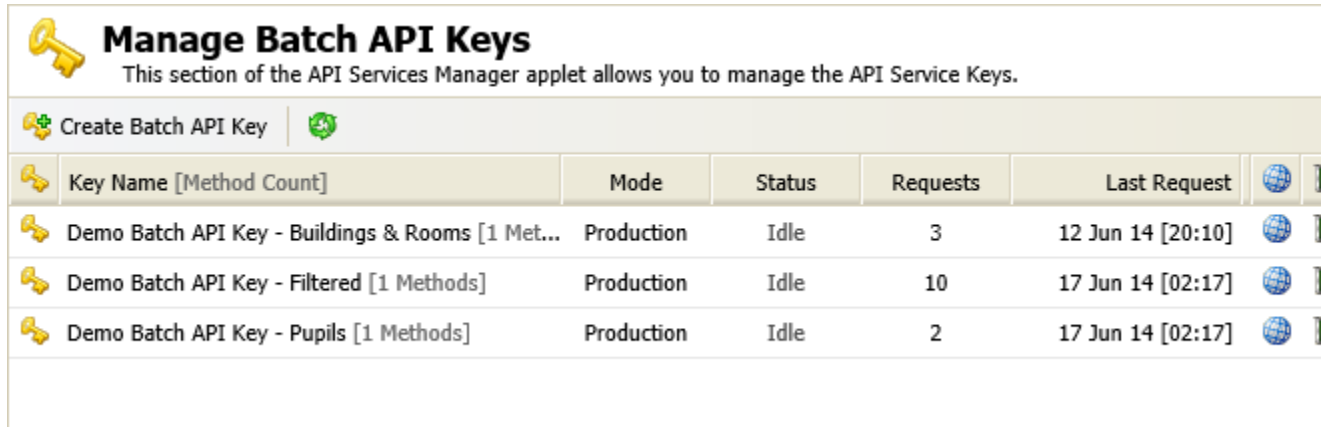
## Stage 1: Create a Batch API Key









Setup batch API keys to enable large amounts of data to be requested from iSAMS in a single hit. Batch API keys offer a high level of access control.

To setup **Batch API Keys**, follow the steps below:

1. In the **iSAMS Control Panel Module**, select the **API Services Manager** applet.
2. Select **Manage Batch API Keys** from the right hand menu.

The **Manage Batch API Keys** screen is displayed. An example is shown below:



 Key Name [Method Count]	Mode	Status	Requests	Last Request	
 Demo Batch API Key - Buildings & Rooms [1 Met...	Production	Idle	3	12 Jun 14 [20:10]	
 Demo Batch API Key - Filtered [1 Methods]	Production	Idle	10	17 Jun 14 [02:17]	
 Demo Batch API Key - Pupils [1 Methods]	Production	Idle	2	17 Jun 14 [02:17]	

3. Click  **Create Batch API Key**.

A popup window is displayed. An example is shown below:

Save & Close | Cancel

**Key Properties** | Key Logging | Key SSL Settings | Key Throttling | Batch Methods

**API Key Details:**

API Key: 56B4EC3C-1DE1-4FD1-8DF9-EA8B107E4A13  
The API key is generated automatically and cannot be changed.

API Key Name: XYZ Consulting  
You must specify a name for this API key.

Description: Testing timetable software  
You can specify an optional description for this API key.

**API Key Options:**

API Key State: Active  
You must specify the state for this API key.

API Key Mode: Development  
You must specify the mode for this API key.

API Key Cache Expiry: 24 Hours  
You must specify the cache expiry for his API key.

4. Select the **Key Properties** tab. An **API Key** code is automatically generated. Each **API Key** code is unique. Right click and select refresh if you want to generate a different code.
5. Complete the fields displayed:

Field	Explanation
<b>API Key Name</b>	Enter a clear and concise name for the API key. For example, the name of the third party who is using the API key.
<b>Description</b>	Add a description to provide more detail on the use of the API key. This is optional.
<b>API Key State</b>	Select 'Active' for the third party to start using the API key.
<b>API Key Mode</b>	Select 'Development'. This ensures that any changes made to data are not saved in your iSAMS system. It is not recommended that you select 'Production' until you are ready to go live with the third party application.
<b>API Key Cache Expiry</b>	Select the period of time that information requested from your iSAMS system is cached. This prevents requested data being constantly updated which could slow iSAMS down. For example, select '24 Hours' and all data requested from iSAMS using this API key is cached for 24 hours.

6. Select the **Key Logging** tab.

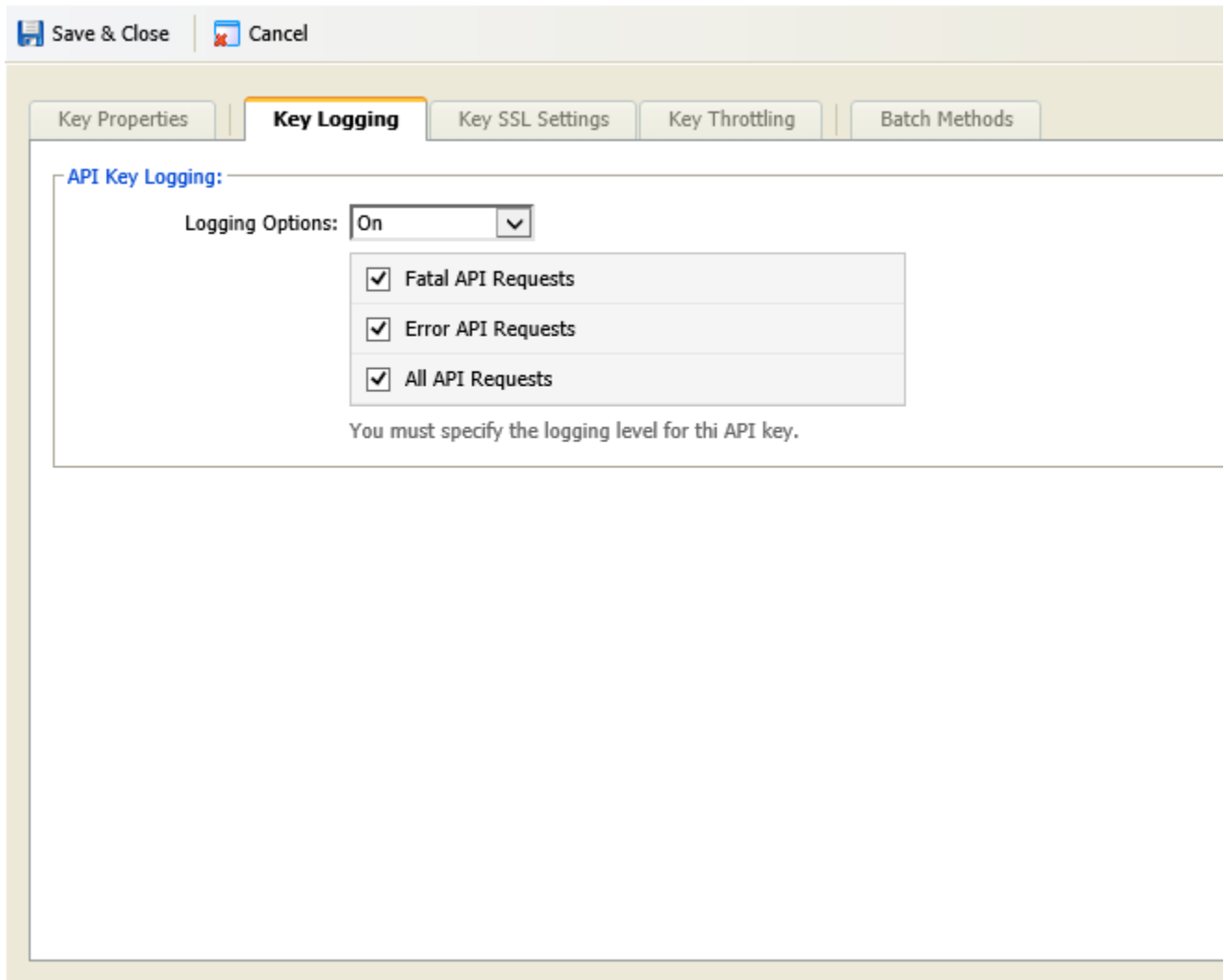
## Stage 2: API Key Logging

Use the **Key Logging** tab to control which types of API requests are logged in iSAMS. By default all types of API request are logged. You may want to limit the options selected to prevent iSAMS being clogged with data.

To control key logging follow the steps below:

1. When creating or editing an API key select the **Key Logging** tab.

An example is shown below:



The screenshot shows a dialog box with a title bar containing 'Save & Close' and 'Cancel' buttons. Below the title bar are five tabs: 'Key Properties', 'Key Logging' (which is selected and highlighted), 'Key SSL Settings', 'Key Throttling', and 'Batch Methods'. The 'API Key Logging' section contains a 'Logging Options:' label followed by a dropdown menu set to 'On'. Below this are three checkboxes, all of which are checked: 'Fatal API Requests', 'Error API Requests', and 'All API Requests'. At the bottom of the section, there is a message: 'You must specify the logging level for thi API key.'

2. Select whether you want to use logging for this API key. Select 'Yes' to display a list of logging options.

3. Select the logging options that you want to record:

- **Fatal API Requests.** API requests which could not be fulfilled due to a fault with iSAMS. Occasionally, iSAMS may contain bugs which need to be corrected. Contact the Help Desk if you continue to experience this.
- **Error API Requests.** API requests which could not be fulfilled due to a fault with the third party's information. For example, dates of birth were not provided in a format recognised by iSAMS.
- **All API Requests.** All API requests are logged; this includes successful, fatal and error API requests.

4. Select the **Key SSL Settings** tab.

## Stage 3: API Key SSL Settings

Use the **Key SSL Settings** tab to encrypt data that is requested from iSAMS. This is advisable due to the personal information recorded within iSAMS.

To setup SSL settings follow the steps below:

1. When creating or editing an API key select the **Key SSL Settings** tab.

An example is shown below:

2. Select *either*:

**Use Global SSL Settings.** This is selected by default.

*or*

**Override Global SSL Settings.** Additional fields are displayed.

3. Select whether you want to force SSL Connections for this API key.

4. Select the **Key Throttling** tab.

## Stage 4: API Key Throttling

Use the **Key Throttling** tab to setup the throttling settings to be used for your selected API key. Throttling prevents iSAMS being flooded with requests from third parties.

For example, choose to limit the number of requests per hour using an API key.

To setup throttling settings follow the steps below:

1. When creating or editing an API key select the **Key Throttling** tab.

An example is shown below:

Save & Close | Cancel

Key Properties | Key Logging | Key SSL Settings | **Key Throttling** | Batch Methods

**Override Options:**

Throttling Override Options:    
Specify whether you wish to override the system wide Throttling for this API Service Key.

**Throttling Service Configuration:**

Use Throttling Service:    
Specify whether you wish to use the Throttling Service.

**Throttling Service Options:**

Throttling Unit Type:    
Specify the type of unit you wish to have the throttling service use.

Throttling Unit Value:   
Specify the unit value you wish to have the throttling service use.

Throttling Limit:   
Specify the throttling limit for the unit type and value.

2. Select *either*:

**Use Global Throttling.** This is selected by default.

or

**Override Global Throttling.**

3. Select whether you want to use throttling for this API key. Select 'Yes' to display the **Throttling Service Options** section.

4. Complete the fields displayed. These are explained in the table below:

Field	Explanation
<b>Throttling Unit Type</b>	Select the unit to which the number of requests is applied. For example, select 'Days' to limit the number of requests which can be fulfilled in a set number of days.
<b>Throttling Unit Value</b>	Enter a unit value to which the number of requests is applied. The number that you enter here is applied to the <b>Throttling Unit Type</b> you have selected.
<b>Throttling Limit</b>	Enter the number of requests to be applied to the <b>Throttling Unit Type</b> and <b>Throttling Unit Value</b> .

For example, select 'Days', '1' and '5000'. This limits the number of requests using your API key to 5000 per 1 day.

5. Select the **Batch Methods** tab.

## Stage 5: API Key Batch Methods

Use the **Batch Methods** tab to select the types of data a third party can access with an API key.

For example, select access to timetables which are in development.

To setup **Batch Methods**, follow the steps below:

1. When creating or editing an API key select the **Batch Methods** tab.

An example is shown below:

<input type="checkbox"/>	Dataset Element	Dataset Description	Dat
<input type="checkbox"/>	Teaching Sets	Includes all the teaching sets complete with associated fields.	<Tea
<input type="checkbox"/>	Teaching Set Lists	Includes all the teaching set lists complete with set & student.	<Teac
<b>Timetable Manager Datasets &lt;TimetableManager&gt;</b>			
<input type="checkbox"/>	Archived Timetable Schedules	Includes all archived timetables complete with all schedule records.	<Timet
<input checked="" type="checkbox"/>	Development Timetable Schedules	Includes all development timetable complete with all schedule records.	<Timetabl
<input type="checkbox"/>	Preliminary Timetable Schedule	Includes the preliminary timetable complete with all schedule records.	<Timetal
<input type="checkbox"/>	Published Timetable Schedule	Includes the published timetable complete with all schedule records.	<Timetz
<input checked="" type="checkbox"/>	Prep Timetable	Includes all active prep timetable records from the Timetable Manage...	<Pre
<input checked="" type="checkbox"/>	Timetable Week Allocations	Includes the week allocations if multiple weeks are used.	<Timeta
<input checked="" type="checkbox"/>	Weeks, Days & Periods	Includes all active weeks, days & periods from the Timetable Manage...	<Timet
<b>Tracking Manager Datasets &lt;TrackingManager&gt;</b>			
<input type="checkbox"/>	Active External Data	Includes all active data imports held within the External Data section.	<Trackin
<b>Requires POST Filters:</b> excludeIds - array			

2. Scroll through the selections listed. Use the check boxes to select access to different areas of iSAMS.

3. Click **Save & Close**. The **Batch API Key** is listed in the **Manage Batch API Keys** screen.