

# Activity Based Funding

## URG Grouper User Guide



Independent Hospital Pricing Authority

# **URGGrouper User Guide**

## **Introduction**

The *URGGrouper* application has been developed by Independent Hospital Pricing Authority (IHPA) to assist state and territory health departments and hospitals to group hospital emergency department data to the URG classification system.

This application provides the following facilities:

1. The ability to map other version of diagnosis codes to major diagnosis blocks;
2. The ability to group an Access data file interactively and view group results and summary results;
3. The ability to batch group Access data files interactively;
4. The ability to group text files interactively and view group results and summary results; and
5. The ability to batch group text files interactively.

**Please note:** *URGGrouper* has been developed according to the agreed URG classification system and tested with sample data. However, issues may be identified as states and territories and hospitals run real-life data through the software. **If you think that URGGrouper is grouping records incorrectly**, we would appreciate your assistance **by notifying us as soon as possible** in order to confirm and correct faults immediately.

## **Contact us**

For more information, contact:

ABF Data Acquisition  
Independent Hospital Pricing Authority  
Level 6, 1 Oxford Street  
DARLINGHURST NSW 2010

Phone: (02) 8215 1130

Fax: (02) 8215 1111

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## ***Abbreviations***

The following abbreviations are used throughout this document.

<b>Term</b>	<b>Description</b>
AM	Australian Modification
AR-DRG	Australian Refined Diagnosis Related Group
CM	Clinical Modification
ED	Emergency Department
ICD	International Classification of Diseases and related health problems
IHPA	Independent Hospital Pricing Authority
MDB	Major Diagnostic Block
MDC	Major Diagnostic Category
URG	Urgency Disposition Groups
UDG	Urgency Related Groups

## Input Fields

A URG code is determined by five factors: **Episode End Status**, **Type of Visit**, **Triage**, **Sex** and **Diagnosis Code**. In addition, a “**Diagnosis Type**” field is required to identify the diagnosis code reported.

The valid values for the **Episode End Status** field are:

Value	Description
1	Admitted to this hospital (including to units or beds within the emergency department)
2	Non-admitted patient emergency department service episode completed – departed without being admitted or referred to another hospital
3	Non-admitted patient emergency department service episode completed – referred to another hospital for admission
4	Did not wait to be attended by a health care professional
5	Left at own risk after being attended by a health care professional but before the non-admitted patient emergency department services episode was completed
6	Died in emergency department as a non-admitted patient
7	Dead on arrival, not treated in emergency department
9	Not stated/inadequately described

The valid values for the **Type of Visit** field are:

Value	Description
1	Emergency presentation
2	Returned visit, planned
3	Pre-arranged admission
4	Patient in transit
5	Dead on arrival
9	Not reported / unknown

The valid values for the **Triage** field are:

Value	Description
1	Resuscitation: Immediate (Within seconds)
2	Emergency: Within 10 minutes
3	Urgent: Within 30 minutes
4	Semi-urgent: Within 60 minutes
5	Non-urgent: Within 120 minutes
9	Triage Category – not assigned

The valid values for the **Diagnosis Type** field are:

Value	Description
10	SNOMED CT
20	ICD-9-CM
31	1 <sup>st</sup> edition ICD-10-AM
32	2 <sup>nd</sup> edition ICD-10-AM
33	3 <sup>rd</sup> edition ICD-10-AM
34	4 <sup>th</sup> edition ICD-10-AM
35	5 <sup>th</sup> edition ICD-10-AM
36	6 <sup>th</sup> edition ICD-10-AM
37	7 <sup>th</sup> edition ICD-10-AM
38	8 <sup>th</sup> edition ICD-10-AM
41	AR DRG MDC
90	No diagnosis classification provided

The valid values for the **Sex** field are:

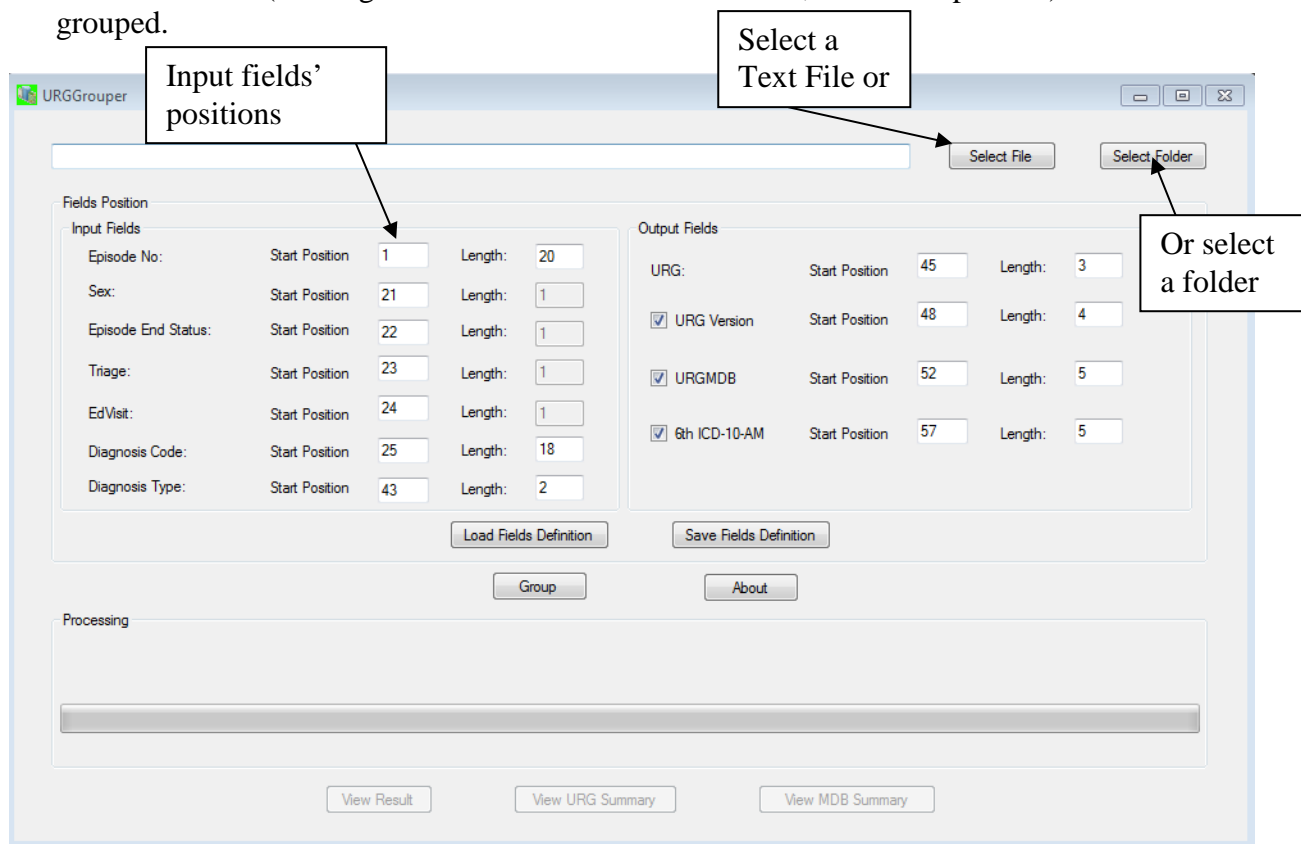
Value	Description
1	male
2	female
3	Intersex or indeterminate
9	Not stated/inadequately described

A unique episode number for each episode is also required to link the URG with the complete ED episode.

**Please note:** To avoid .net memory limit, we recommend the number of episodes in the input file is less than 2.5 million.

## How to group a text file

1. Open **URGroupT**, then click the “**Select File**” or “**Select Folder**” button to select the text file or the folder (running for all the files under such folder, as a batch process) to be grouped.



2. **Specify** input fields and output fields' position and length. **URG** is the default field included in output table. If a user also wishes to include **MDB**, please tick the box “**URGMDb**” and specify its position and length.

The screenshot shows the URGrouper application window. The 'Fields Position' section is highlighted with a red oval. It contains two sub-sections: 'Input Fields' and 'Output Fields'.

Field Name	Start Position	Length
Episode No.	1	20
Sex	21	1
Episode End Status	22	1
Triage	23	1
EdVisit	24	1
Diagnosis Code	25	18
Diagnosis Type	43	2
URG	45	3
<input checked="" type="checkbox"/> URG Version	48	4
<input checked="" type="checkbox"/> URGMDb	52	5
<input checked="" type="checkbox"/> 6th ICD-10-AM	57	5

Buttons at the bottom of the 'Fields Position' section include 'Load Fields Definition', 'Save Fields Definition', 'Group', and 'About'. Below this is a 'Processing' section with a progress bar and buttons for 'View Result', 'View URG Summary', and 'View MDB Summary'.

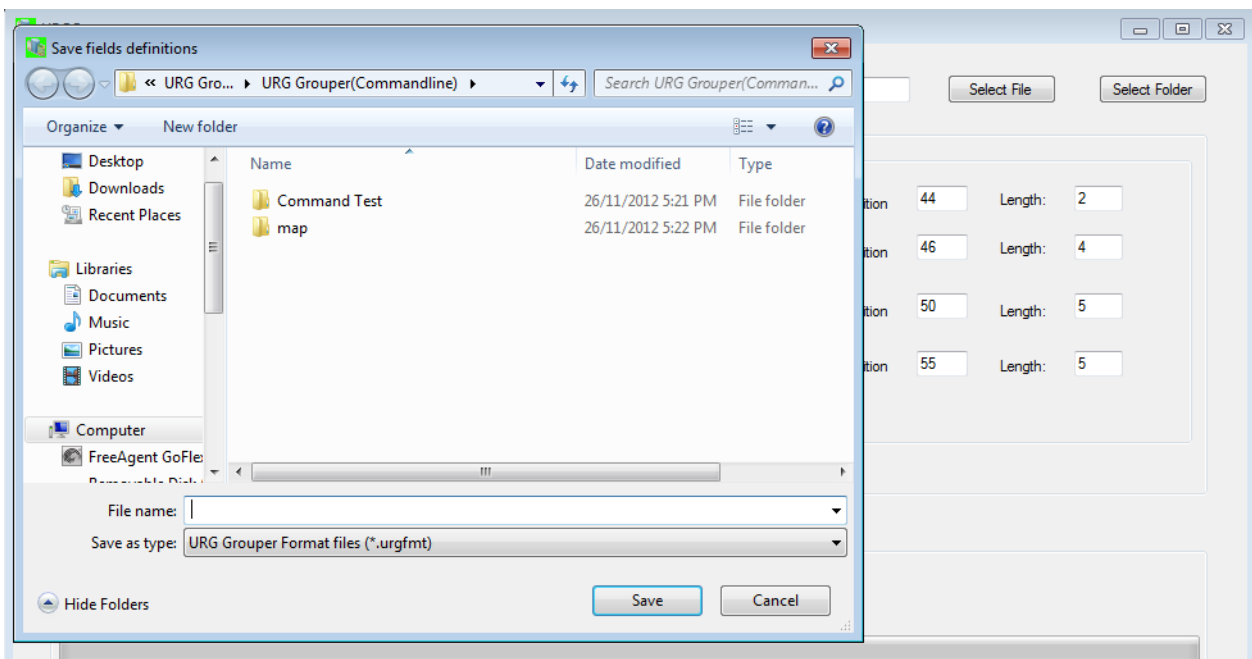
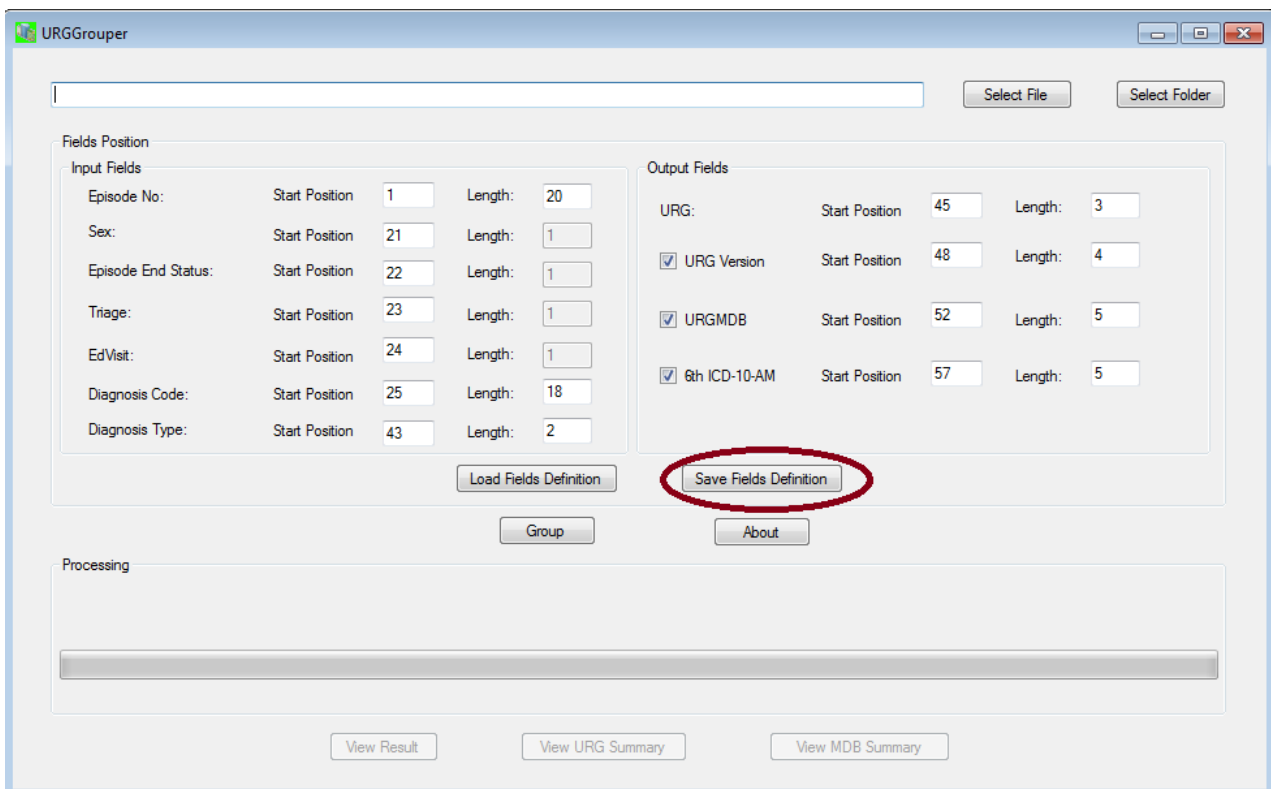
If the ICD version reported is not ICD-10-AM 6<sup>th</sup> Edition, user can also include an “X06DDX” (mapped ICD-10-AM 6<sup>th</sup> Edition codes from the reported diagnosis codes) in the output file by ticking the box “ICD-10-AM 6<sup>th</sup> Edition” and setting its position and length.

This screenshot is similar to the previous one, but the '6th ICD-10-AM' checkbox in the 'Output Fields' section is circled in red, indicating it is the focus of the instruction.

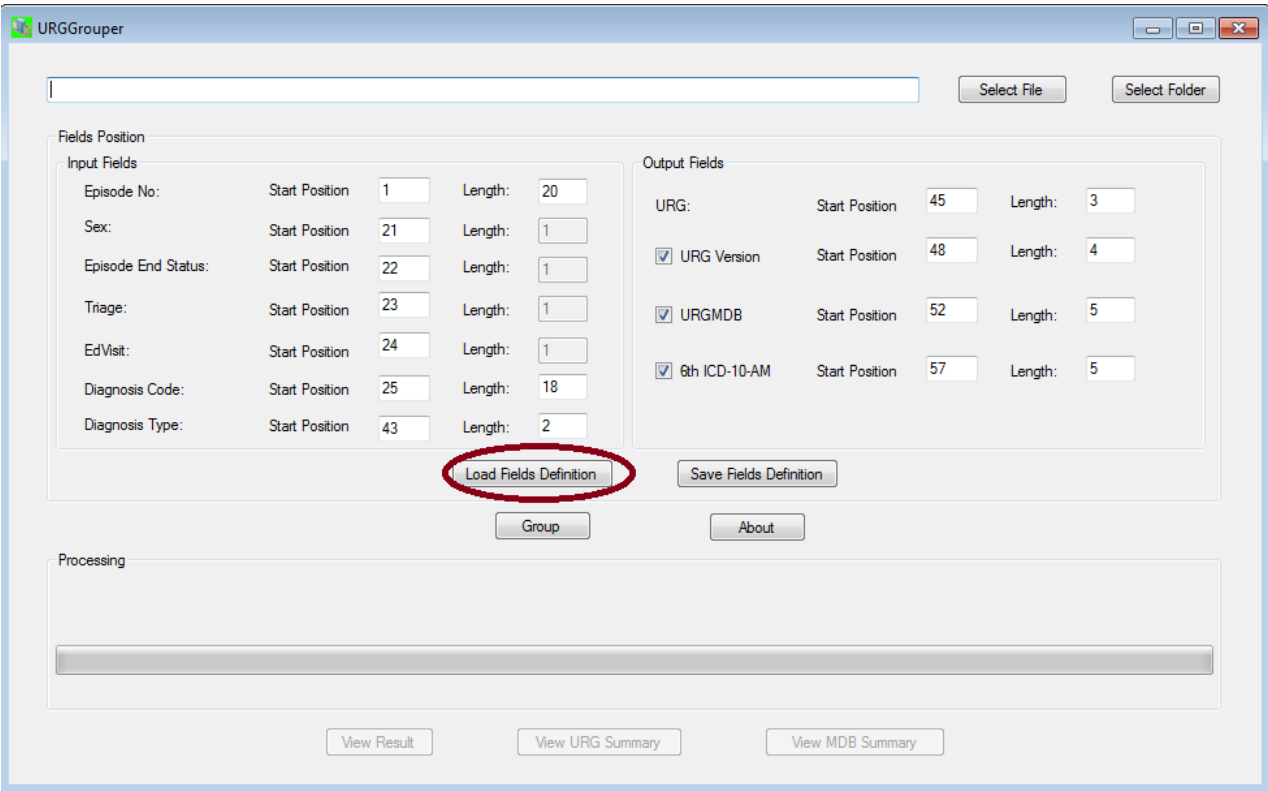
Field Name	Start Position	Length
Episode No.	1	20
Sex	21	1
Episode End Status	22	1
Triage	23	1
EdVisit	24	1
Diagnosis Code	25	18
Diagnosis Type	43	2
URG	45	3
<input checked="" type="checkbox"/> URG Version	48	4
<input checked="" type="checkbox"/> URGMDb	52	5
<input checked="" type="checkbox"/> 6th ICD-10-AM	57	5

The rest of the interface, including the 'Processing' section and summary buttons, remains the same as in the previous screenshot.

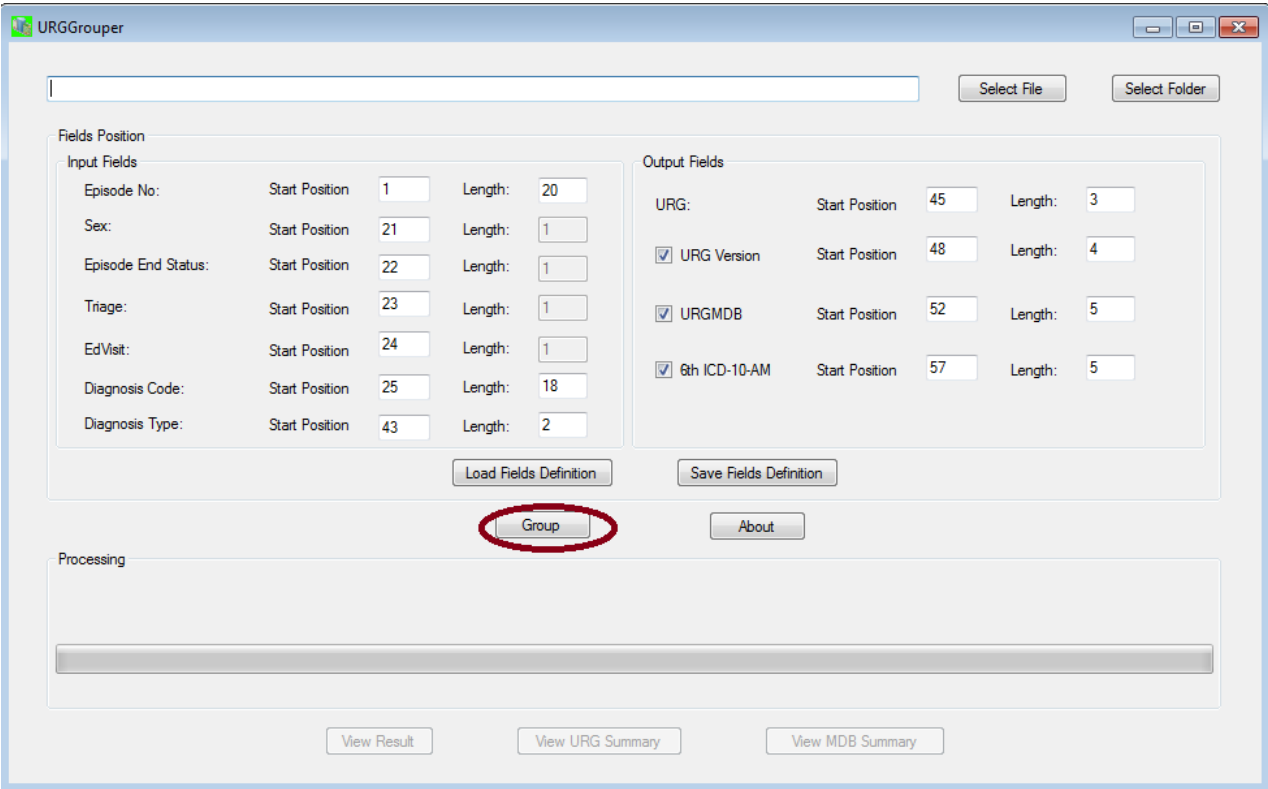
3. After Step2 and 3, user can click the “Save Fields Definition” button to save fields’ definitions to an urgfmt file.



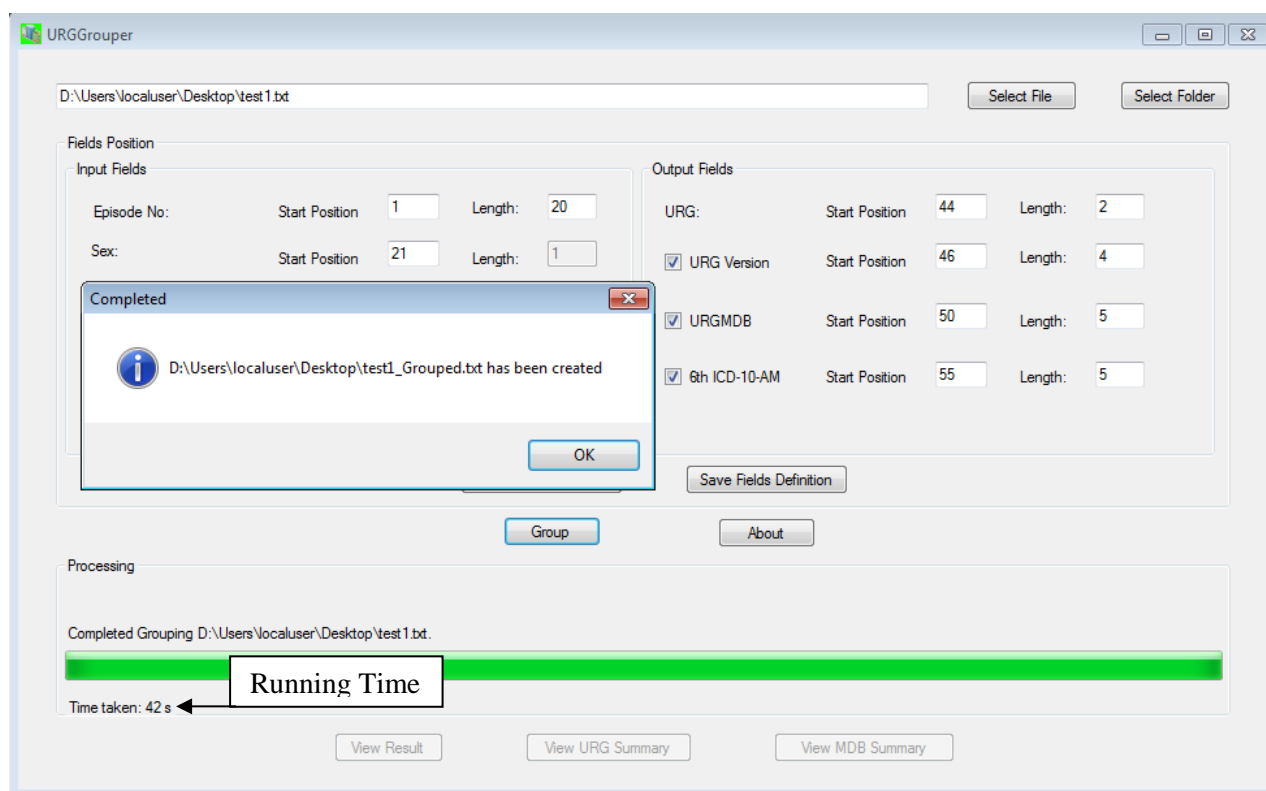
Next time, by clicking the “Load Fields Definition” button, user is able to load saved field definition into the application.



4. Click the “Group” button, then the application starts grouping data.

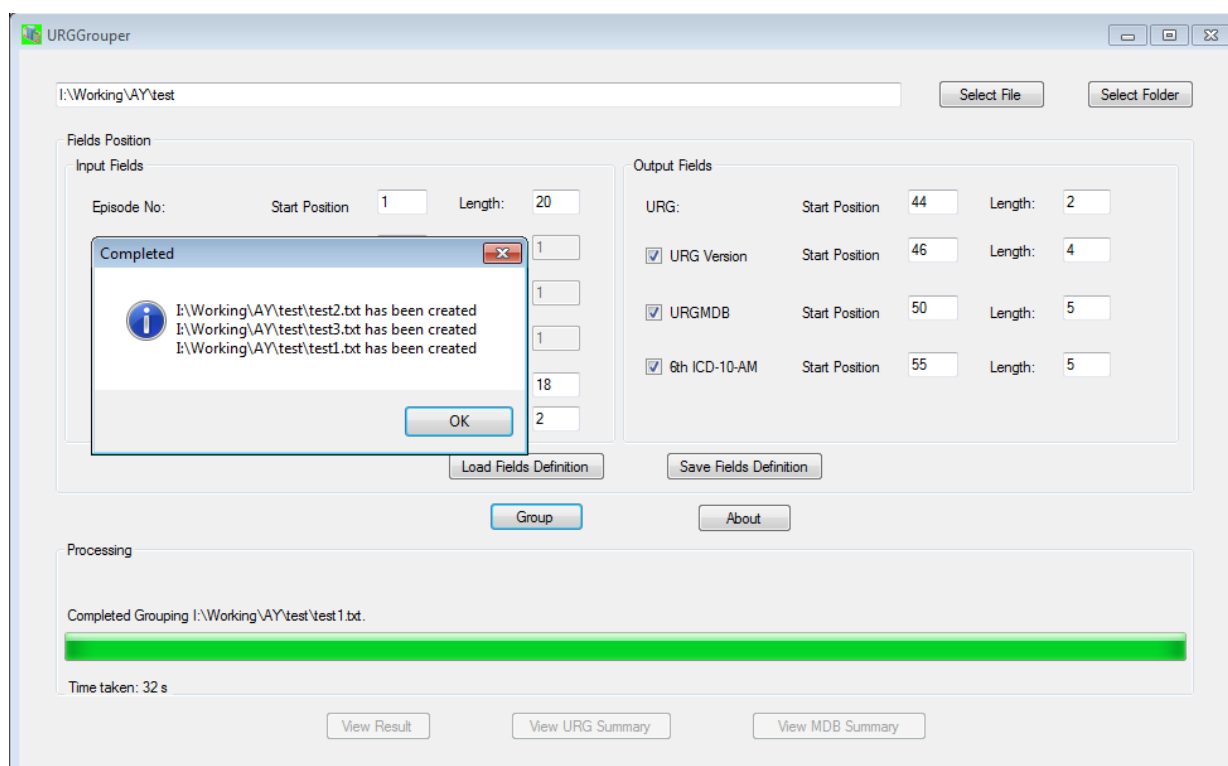


When the grouping is completed, a “**Complete**” message will be popped out and the running time will be displayed in the bottom of the page.



A new file with the name being <input file name>+”\_Grouped” will be created in the same folder as the input file.

In step 1, if user selected a folder instead, the grouper would go through all files under such folder and process these files one by one in a batch mode.



5. In order to view the group results, click the “**View Results**” button. If a folder is selected in step 1, the result for each file in the folder will be shown side by side.

URGrouper

D:\Users\Vocaluser\Desktop\test1.txt

Select File Select Folder

Fields Position

Input Fields

Field	Start Position	Length
Episode No:	1	20
Sex:	21	1
Episode End Status:	22	1
Triage:	23	1
EdVisit:	24	1
Diagnosis Code:	25	18
Diagnosis Type:	43	2

Output Fields

Field	Start Position	Length
URG:	45	3
<input checked="" type="checkbox"/> URG Version	48	4
<input checked="" type="checkbox"/> URGMDB	52	5
<input checked="" type="checkbox"/> 6th ICD-10-AM	57	5

Load Fields Definition Save Fields Definition

Group About

Processing

Completed Grouping D:\Users\Vocaluser\Desktop\test1.txt.

Time taken: 42 s

View Result View URG Summary View MDB Summary

Epi_No	Disposition	Triage	Diag	DiagType	URG	MDB	X06DDX
48	2	4	419502003	10	E4	NOMAP	NOMAP
49	2	4	91175000	10	68	3E	R568
50	2	4	54150009	10	61	3B	J069
51	2	3	171431004	10	E4	NOMAP	NOMAP
52	2	4	6142004	10	68	3N	J111
53	2	4	384709000	10	E4	NOMAP	NOMAP
54	2	4	299709002	10	65	3G	K047
55	2	4	74732009	10	68	4	F99
56	2	4	398665005	10	61	3A	R55
57	2	1	6456007	10	39	3A	I471
58	2	4	34014006	10	68	3N	B349
59	2	4	6142004	10	68	3N	J111
60	2	4	68566005	10	60	3D	N390
61	2	4	47874006	10	58	2B	T112
62	4	4		10	73		
63	1	3	13645005	10	27	3B	J449
64	2	4	54150009	10	61	3B	J069
65	1	3	7520000	10	29	3N	R509
66	2	4	4009004	10	E4	NOMAP	NOMAP
67	2	4	36857002	10	68	3N	L0301
68	2	4	299709002	10	65	3G	K047

OK

6. For viewing the URG summary results, click the “**View URG Summary**” button. If a folder is selected in step 1, URG summary result for each file in the folder will be shown side by side.

The screenshot shows the URG Grouper application window. The 'Fields Position' section is active, displaying 'Input Fields' and 'Output Fields'. The 'Input Fields' section lists fields like Episode No, Sex, Episode End Status, Triage, EdVisit, Diagnosis Code, and Diagnosis Type with their start positions and lengths. The 'Output Fields' section lists URG, URG Version, URGMDB, and 6th ICD-10-AM with their start positions and lengths. The 'Processing' section shows a green progress bar and the message 'Completed Grouping D:\Users\Vocaluser\Desktop\test1.txt.' with a time taken of 42 s. The 'View URG Summary' button is circled in red.

Fields Position

Input Fields

Field	Start Position	Length
Episode No:	1	20
Sex:	21	1
Episode End Status:	22	1
Triage:	23	1
EdVisit:	24	1
Diagnosis Code:	25	18
Diagnosis Type:	43	2

Output Fields

Field	Start Position	Length
URG:	45	3
<input checked="" type="checkbox"/> URG Version	48	4
<input checked="" type="checkbox"/> URGMDB	52	5
<input checked="" type="checkbox"/> 6th ICD-10-AM	57	5

Processing

Completed Grouping D:\Users\Vocaluser\Desktop\test1.txt.

Time taken: 42 s

View Result View URG Summary View MDB Summary

The screenshot shows the 'View Result' dialog box. It contains a table with two columns: 'URG' and 'COUNT'. The data is sorted by COUNT in descending order. The table is as follows:

URG	COUNT
03	1372
04	491
05	1239
06	2273
07	2425
09	2052
10	7294
11	5412
12	13972
14	5617
15	470
16	36671
17	12081
19	4403
20	18418
21	20310
22	3101
23	42040
24	33370
25	3641
26	11175

OK

7. User is also able to view the MDB summary results by clicking the “**View MDB Summary**” button. If a folder is selected in step 1, MDB summary result for each file in the folder will be shown side by side.

Please note episodes grouped to an E5 error (diagnosis code – no MDB map) were given an ‘ERR’ value in the MDB output field in the previous version. In this revised grouper, these episodes are still grouped to an E5 error; however the output field for MDB is left blank as no MDB can be allocated.

URGrouper

D:\Users\Vocaluser\Desktop\test1.txt

Select File Select Folder

Fields Position

Input Fields

Field	Start Position	Length
Episode No:	1	20
Sex:	21	1
Episode End Status:	22	1
Triage:	23	1
EdVisit:	24	1
Diagnosis Code:	25	18
Diagnosis Type:	43	2

Output Fields

Field	Start Position	Length
URG:	45	3
<input checked="" type="checkbox"/> URG Version	48	4
<input checked="" type="checkbox"/> URGMDB	52	5
<input checked="" type="checkbox"/> 6th ICD-10-AM	57	5

Load Fields Definition Save Fields Definition

Group About

Processing

Completed Grouping D:\Users\Vocaluser\Desktop\test1.txt.

Time taken: 42 s

View Result View URG Summary View MDB Summary

URG View Result

MDB	COUNT
1A	1384
1B	11826
1C	2
1D	9845
2A	50392
2B	158392
2BA	83444
3A	141567
3B	157404
3C	176738
3D	49496
3E	101391
3F	27151
3G	42061
3H	53769
3I	11878
3J	27322
3K	13721
3L	10618
3M	4706
3N	87619

OK