

Proposal for SIF AU Object Plan: Time Tabling Collection of Objects

Submitted by: **SIF AU Data Standards Working Group**

Version: **V1.0**

Date Submitted:

Table of Contents

Engagement with SIF AU Specification.....	3
Proposal	3
Business Case.....	3
Time Line	10
Potential Objects.....	10
Object Plan	11
Object Dependencies and Relation Map.....	11
Changes to Other Objects.....	11
Infrastructure Changes.....	11
Object Definitions	12
Base Student Data.....	12
Base Staff Information (contained within Staff Personal).....	14
StaffSubjects.....	14
Base Room Information (contained within RoomInfo).....	15
RoomInfo.....	15
SubjectTimeTableReference	15
StudentSubject (Student Subject Choices)	16
Schedule Information.....	17
TimeTable.....	17
TimeTableDay	17
TimeTablePeriod.....	18
TimeTableInstance	20
Issues	20
XML Examples.....	21
Base Student Data.....	21
Use Cases	21

Draft Specification Document Version Control			
Version	Date:	Author/Organization:	Comments
v0.6	01/02/2008	L. Marshall DEECD, Vic	Time Tabling – Draft Development Prototype of development of a collection of new SIF Objects. Sample of Object creation that would be required for interaction with Time Tabling packages looking for SIF compliance.
V0.7/0.8		L. Marshall DEECD, Vic	Updating of Spec after further refining SIF AU Data Model and investigation of TimeTabling interfaces with CASES21 and First Class (Human Edge)
V0.9	12 Jan 09	P Cameron DEECD Vic	Narrative updated, minor formatting, naming convention applied and changes to comply with recently redefined SIF AU Object Approval process
V1.0 Draft	6 th Feb 2009	L Marshall DEECD Vic	Changes made to base object data based on feedback from SIFA. StudentSnapshot has been proposed as a replacement object for the previously proposed 'StudentTimeTableReference' as it is a pre-existing object in the US 2.2 Spec. Only Mandatory (M)

			<p>information is required to be sent as Base Data. StaffPersonal and RoomInfo have also been used instead of creating new objects. But the same premise applies – only the Mandatory elements are required to be sent.</p> <p>These changes will be sent to the Working Groups and SIFA Community for review.</p>
--	--	--	--

DRAFT

Engagement with SIF AU Specification

Please note that further development of this draft will be guided by vendors and other participants in the SIFA Community. We encourage all those with interest and information on improving the specifications to sign up to the interest register (au.sifassociation.org). The SIF-AU plans to provide the mechanisms to allow an open specification to be developed with all those interested to be involved.

This draft collection is to be used in a Proof of Concept in Victoria and the outcome of which will inform and update this document. For more information on the POC email CIO@edumail.vic.edu.au.

Proposal

Business Case

SIFA Object Business Use Case Development Form Submission	
Name of Submitter	SIF AU Data Standards Working Group (Australia)
Submitter's Title	Data Analyst
Submitter's Organization	DEECD Vic on behalf of the SIF AU Team
Date of Submission	
Form Submitted to:	SIF Staff _____ SIF Work Group _____

Business Case Narrative

According to SIF Specification V2.2, Objects that are associated with TimeTabling refer to daily organisational information and curriculum assessment

"TimeTabling" within an Australian context is more about scheduling, staff, resources, rooms and students to a portion of a day. The SIF Specification V2.2 does not cater for information flow that will allow the actual scheduling of classes or activities. Furthermore, few Schools Student Administration Packages appear to provide TimeTabling functions that meet the proposed style of usage that is relevant to the Australian context.

Many schools use TimeTabling packages where student, staff and room information is exported from the Student Administration System into the third party TimeTabling package. Once the timetable is 'bedded down', the information is exported manually from the TimeTabling package and imported back into the Student Administration System.

A sought-after business need to meet expectations of the Australian education community is to respond to a TimeTabling query with accurate information about the whereabouts of a particular student at any particular time of day.

To enable this, sufficient information regarding the scheduling of classes, staff, resources, rooms and students needs to be able to be transferred to and from applications to enable a response from the Schools Administration or Curriculum Delivery System.

SIF Specification US V2.2 does not provide a good match to the data that Student Administration Systems need to interface with third party TimeTabling systems. Therefore a need exists to define new object/s to standardise the interaction between packages so that Vendors and Applications have the required interoperability for TimeTabling.

It is expected that improved interoperability between systems will lead to more accurate and

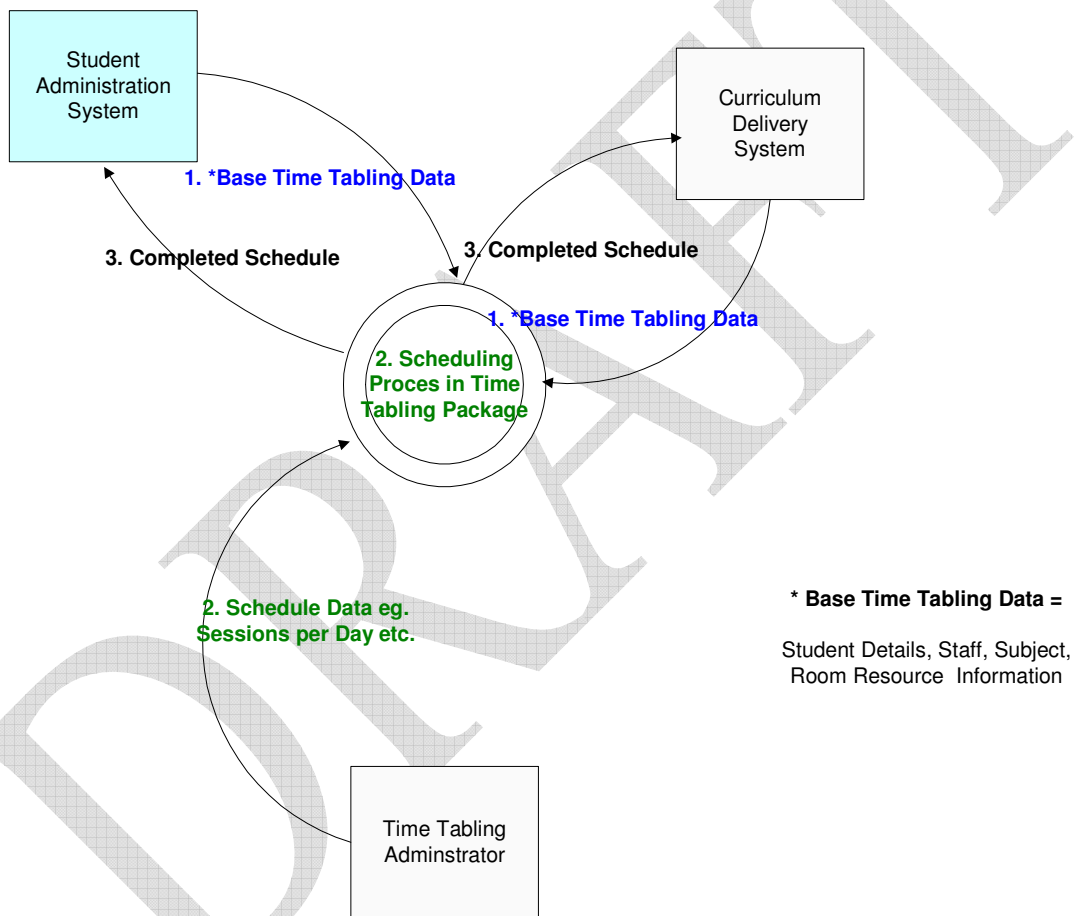
consistent exchange of TimeTabling data as well as time savings due to streamlined operations of data transmissions versus the existing method of manual exports and imports. Interaction between third party TimeTabling packages and Schools Administration Systems is currently available at a School Level but the capability should be provided for development should allow for TimeTabling information from multiple schools

It is expected that interoperability can be achieved via a ZIS or as standardised information flows between third party Time Tabling packages and Schools Student Administration Systems..

DRAFT

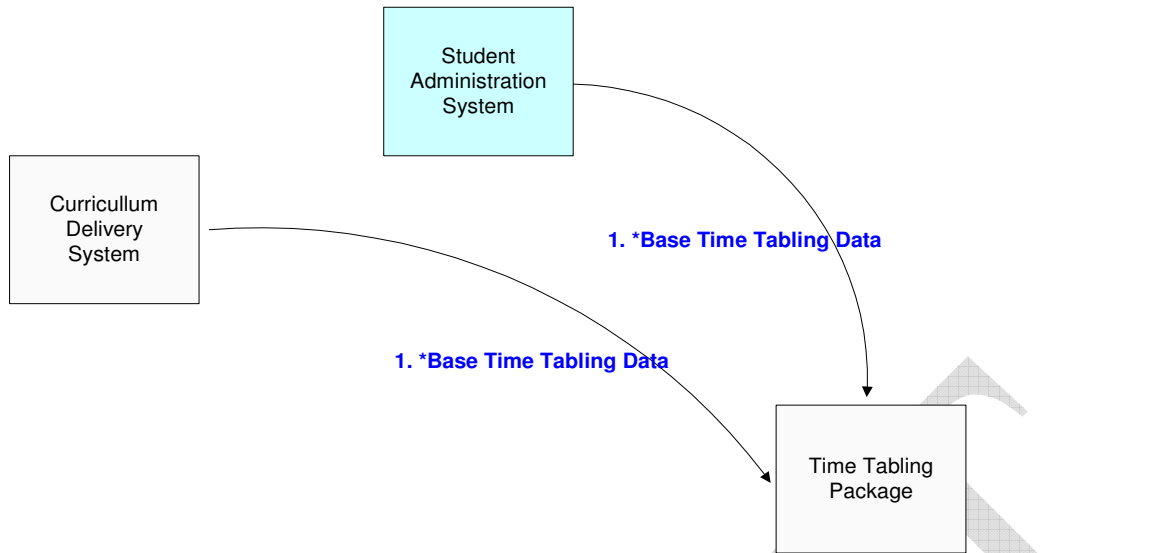
Use Case Outcome Goal Narrative	
End to End Goal Statement	<p>Information will flow between Schools Student Administration Packages, Curriculum Delivery Systems and third Party TimeTabling packages such that subjects, classes, staff, resources, rooms and students can be scheduled and established. TimeTable data can be passed back such that the location of a class, subject, student or teacher can be known within the School's Student Administration Package or Curriculum Delivery System.</p> <p>The process will involve a number of steps:</p> <ol style="list-style-type: none"> 1. Set up of Base TimeTable information in Student Administration Package, Curriculum Delivery System <ol style="list-style-type: none"> a. Input Student Data b. Input Room/Resource Data c. Input Subject Data – Curriculum Offerings d. Input Staff Data e. Input Subjects Staff are qualified to teach -optional f. Create export of base TimeTable Information for third Party Package 2. Create Schedule in third party TimeTabling Package <ol style="list-style-type: none"> a. Import Base TimeTable Information b. Additional TimeTabling Data is input by Time Table Administrator e.g. Days per cycle, sessions per day, sessions per subject etc Or Subjects/Curriculum Offerings. c. Scheduling Process Occurs d. School TimeTable Administrator confirms schedule suitability e. Create export Schedule is information 3. Schedule Export/Import <ol style="list-style-type: none"> a. School Administration System or Curriculum Delivery System loads schedule information b. Additional Organisational information updated/confirmed
Input Choreography Expectations	<p>(Input to Schools Student Administration Systems – Step 1 & 3)</p> <p>Base TimeTable Information: Student, Staff, Room, Subject, Class information held in the Schools Student Administration System or Curriculum Delivery System.</p> <p>Trigger: School has collected Student Subject Preferences, Teachers have been identified and their subject areas logged, Availability of Rooms has been recorded and proposed Subjects noted. School needs to schedule classes.</p> <p>Schedule Export/Import Schedule information apportioning students, staff, classes and subjects to rooms has been loaded into the Schools Student Administration Systems.</p> <p>Trigger: Schedule has been created and is ready to be loaded into receiver systems.</p>

<p>Output Choreography Expectations</p>	<p>(Output from Schools Student Administration Systems – Step 2 – Import to Time Tabling Package) Create Schedule in third party TimeTabling package Base TimeTable information is loaded into third party package. Schedule Process occurs, is confirmed and export is Created.</p> <p>Trigger: Trigger: third party package has scheduled a TimeTable and administration staff have confirmed its validity.</p>
<p>Summary</p>	<p>These interactions are at a school level or to a centralised System.</p>

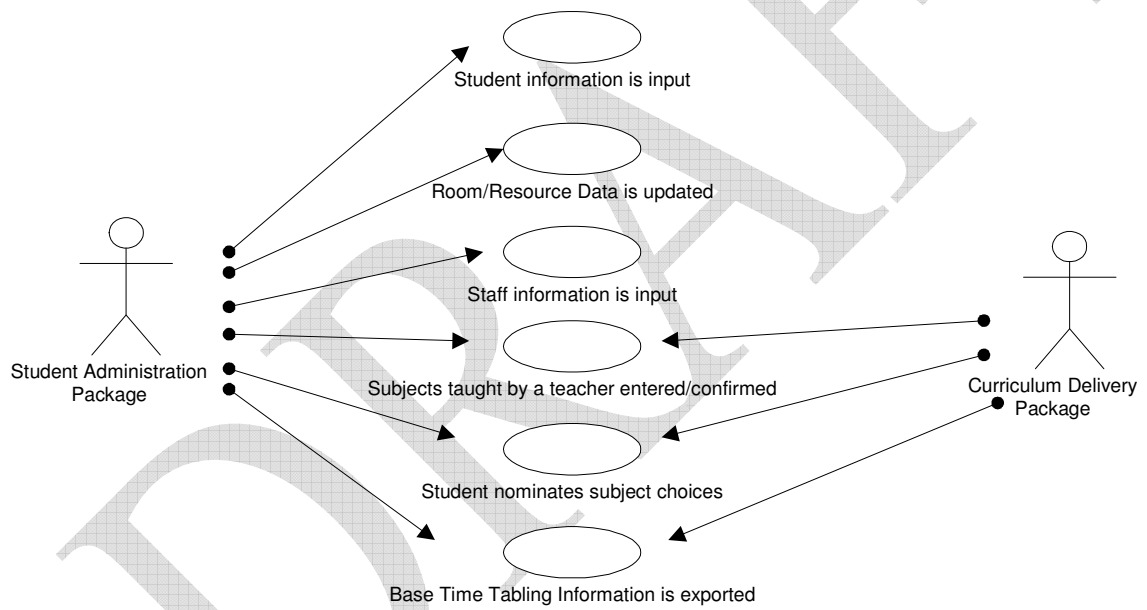


CONTEXT DIAGRAM – DATA FLOW BETWEEN RELATED ENTITIES

**Choreography:
 Step 1
 BASE TIMETABLE INFORMATION**

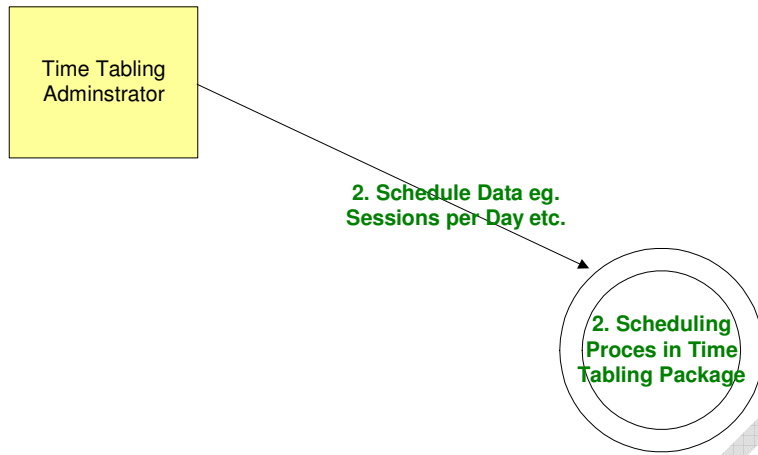


USE CASE – STEP 1 – BASE TIMETABLE INFORMATION

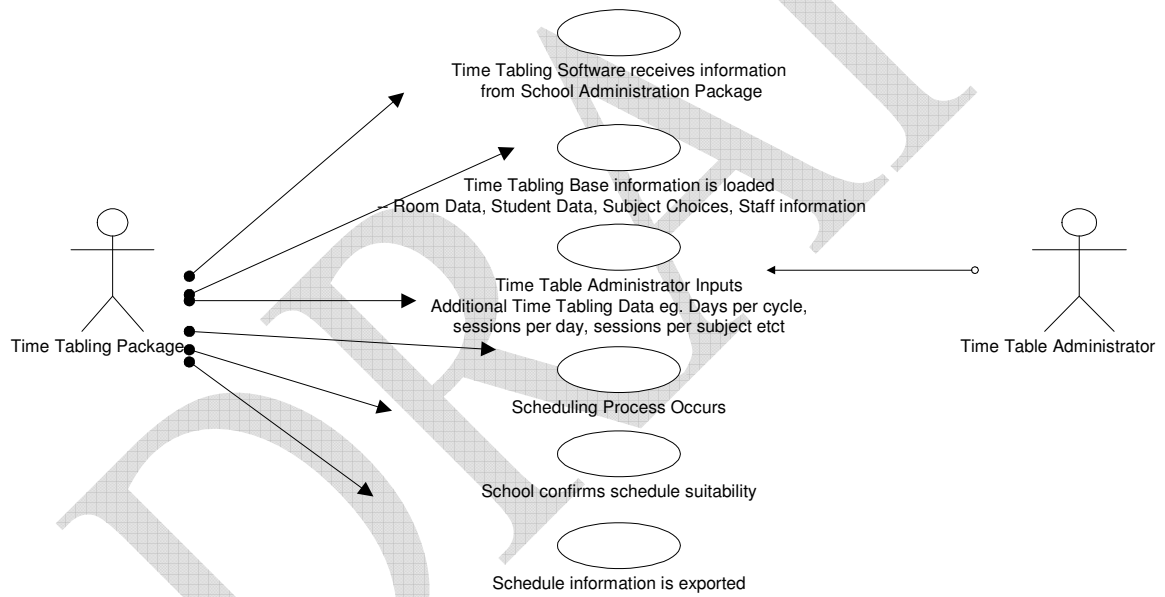


Note: Base Time Table Information related to Students, Staff, Subjects – Curriculum Offerings, Rooms, Subject Choices etc. will be exported from the Primary Source which could be the Student Administration Package or Curriculum Delivery Package. Some Base information may be held in the Time Tabling Package – in which case it will be added in Step 2.

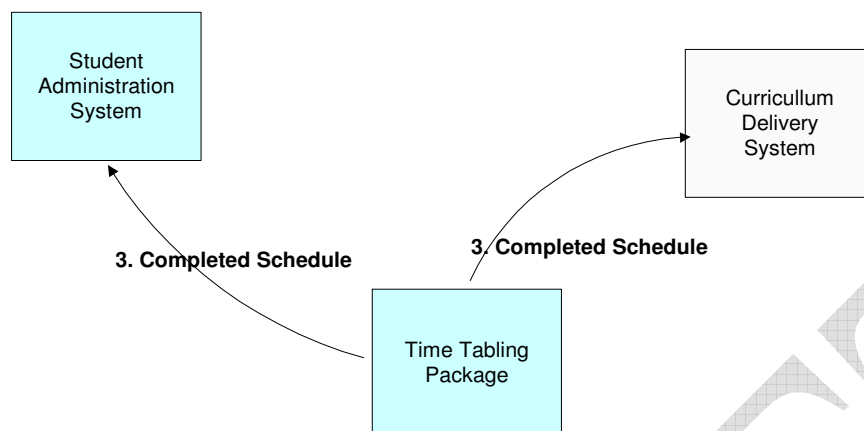
**Choreography:
Step 2 – SCHEDULE CREATION**



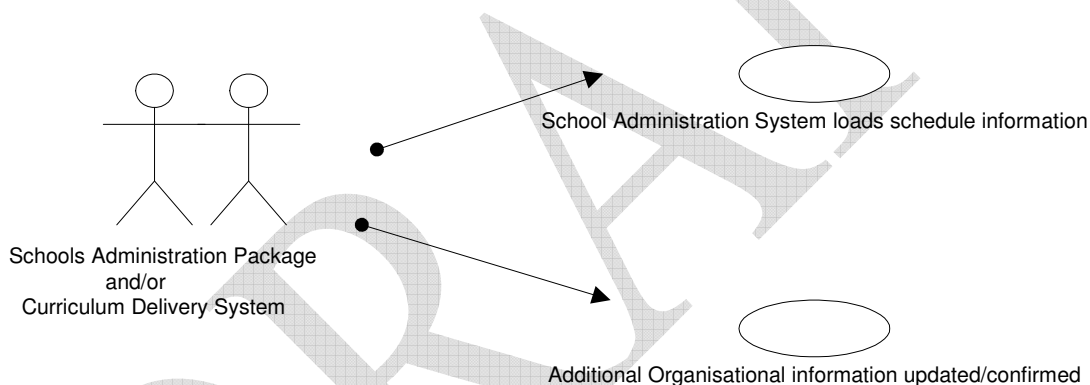
USE CASE – STEP 2 – SCHEDULE CREATION



Choreography:
Step 3 - SCHEDULE EXPORT/IMPORT



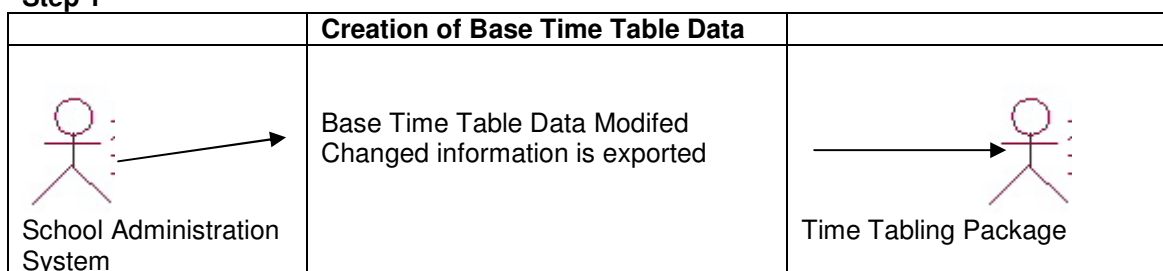
USE CASE – STEP 3 – SCHEDULE EXPORT/IMPORT



Note:

Any of these events;
 Change of Teacher/s &/or subjects eligible to teach
 Change of Student/s
 Change in Student's Subject Choice
 Change in Room/Resource Data

Will trigger;
 An export of Modified Data to the Time Tabling Package eg:

Step 1

Which will lead to changing in Schedule information as in;

Step 2

Above

And

Step 3

As Above

Time Line

These objects are planned to be released as part of the SIF AU 1.0 Specification due for release in 2009.

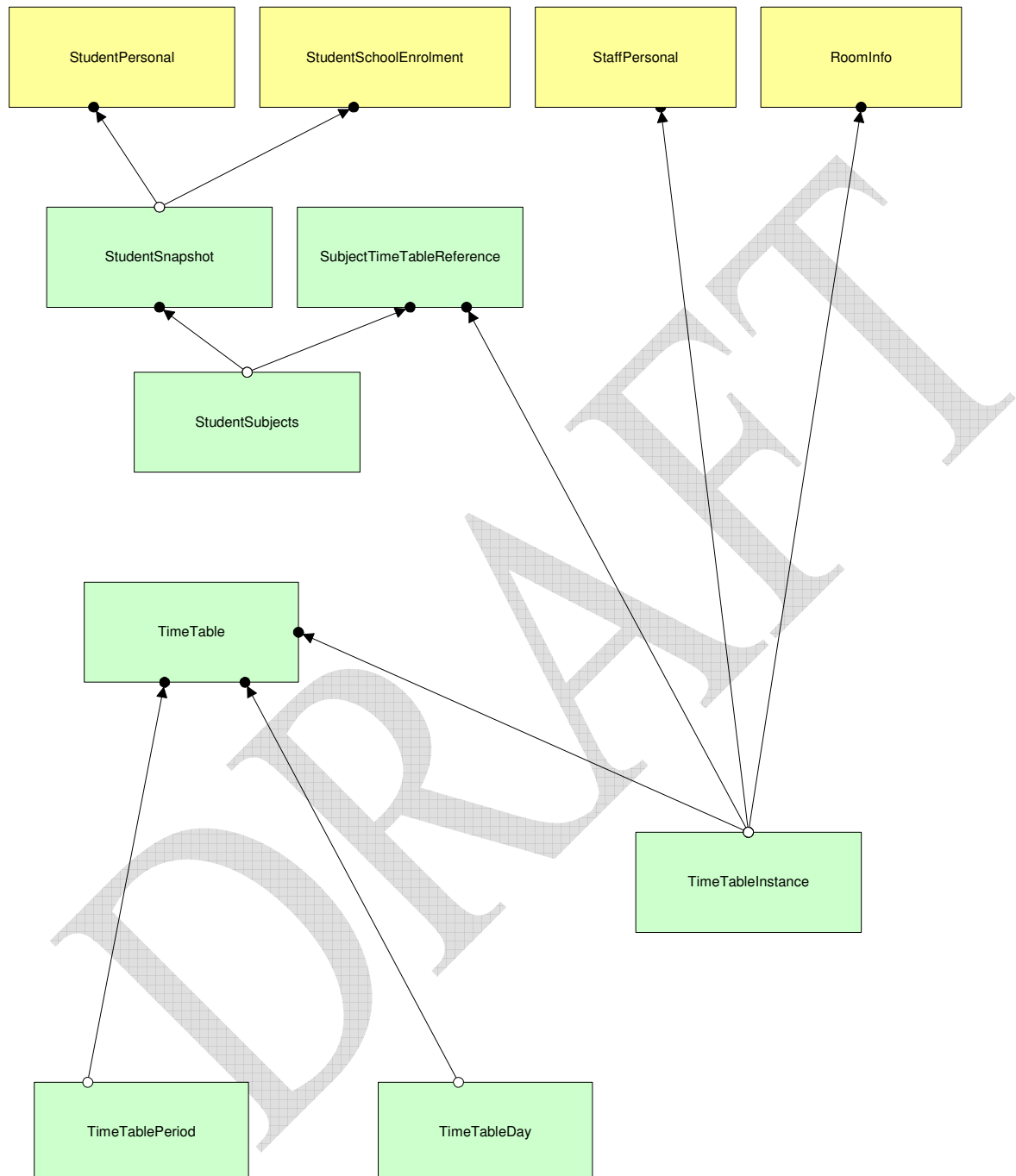
Potential Objects

Proposed Collection of New Data Objects	
Object	Object Description
StudentSnapShot (or parent Objects see Relation Map)	This object needs to contain enough information pertaining to the Student to allow a third party package to identify and schedule a student. This object provides a snapshot of a student's record on a given day. All information reported in the object is reported as it appeared in the responding system on the date specified in SnapDate. It can be used for synching data across applications, for periodically loading a data warehouse, or for vertical reporting of data to a requesting authority, such as a state department of education.
StaffPersonal	This object needs to contain enough information pertaining to a Staff Member to identify a staff member and the subjects they are eligible to teach.
StaffSubjects	This repeatable element is contained within Staff Personal and contains Staff subjects they are eligible to teach together with the teaching preference.
RoomInfo	This object identifies characteristics of a room that will allow it to be scheduled as a resource.
SubjectTimeTableReference	This object identifies the subject or distinct piece of curriculum that needs to be scheduled.
StudentSubjects	This object contains a particular students subject choice.
TimeTable	This object identifies a particular schedule (timetable).
TimeTableDay	This object identifies a 'day' in a TimeTable
TimeTablePeriod	This object identifies a period/or a session within a TimeTable Day.
TimeTableInstance	This object identifies a specific instance of a curriculum offering for a student (schedule) of a particular TimeTable.

Object Plan

Object Dependencies and Relation Map

Objects here are related to Student Personal, Staff Personal etc.



Changes to Other Objects

No changes to other objects yet identified.

Infrastructure Changes

No changes with SIF-US infrastructure anticipated with this release. This collection of objects Interfaces with other Systems and ZIS and/or changes to input/export data transactions.

Object Definitions

SIFA DefinitionDetails of Object Characteristics

Code	Characteristic
M	Mandatory element or attribute
O	Optional element or attribute
C	Conditional element or attribute
MR	Mandatory and repeatable element
OR	Optional and repeatable element
CR	Conditional and repeatable element

Base Student Data

Base Student information is required for this and can be sourced from StudentPersonal, StudentSchoolEnrollment and StudentContact Objects if they are currently consumed and maintained by the third-party TimeTabling Package or the Curriculum Delivery System. If the system does not already subscribe to Student Objects; the Student Base Data can be supplied by a requesting subset of the StudentSnapShot Object.defined below:

Name	StudentSnapShot		
Description	<p>This object needs to contain enough information pertaining to the Student to allow a third party package to identify and schedule a student. It is a subset of information that is further identified within other Student objects such as Student Personal.</p> <p>This object provides a snapshot of a student's record on a given day. All information reported in the object is reported as it appeared in the responding system on the date specified in SnapDate. It can be used for synching data across applications, for periodically loading a data warehouse, or for vertical reporting of data to a requesting authority, such as a state department of education.</p>		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Char	Description	Type
@SnapDate	M		
@StudentPersonalRefId	M		
@SchoolYear	M		
Name	M		Name
Name\GivenName	M		xs:normalized String
Name\FamilyName	M		xs:normalized String
Name\PreferredName	O		xs:normalized String
LocalId	M	The locally-defined identifier for this student.	
StateProvinceId	O	The state-assigned identifier for this student. (For Vic – VSN)	
Sex	O	Person's gender.	
BirthDate	O	The person's date of birth.	
Age	O	The age (in years) of the student on the	

		date in SnapDate.	
ProjectedGraduationYear	O	Currently projected graduation year.	
OnTimeGraduationYear	O	First projected graduation year, usually determined when student is accepted into ninth grade.	
GraduationDate	O	Date student officially graduated from secondary education.	
GraduationAward	O	The award received upon graduation.	
GraduationOnTime	O	Did the student graduate in the expected number of years?	
HomeEnrollment	M	Enrollment-related information for the school that is responsible for reporting the student's membership/child accounting information. This is most likely the primary enrollment site for the student.	
HomeEnrollment/StudentSchoolEnrollmentRefId	O	The ID (GUID) of the StudentSchoolEnrollment object from which the enrollment information is derived.	
HomeEnrollment/SchoolName	O	Name of the school.	
HomeEnrollment/SchoolInfoRefId	C	The ID (GUID) of the school. Provide both the HomeEnrollment/SchoolInfoRefId and HomeEnrollment/LocalId elements if possible. If not, one or the other must be provided.	
HomeEnrollment/SchoolLocalId	C	The locally-defined identifier for this school. Provide both the HomeEnrollment/LocalId and HomeEnrollment/SchoolId elements if possible. If not, one or the other must be provided.	
HomeEnrollment/SchoolNo	O	The state or province defined identifier for this school.	
HomeEnrollment/Status	O	Enrollment status as of the SnapDate.	
HomeEnrollment/YearLevel	O	Grade or academic level of student.	
HomeEnrollment/Homeroom	M	HomeGroup this student belongs to	
SIF_Metadata	O		
SIF_ExtendedElements	O		

Assumptions around the use of this object:

1. The StudentPersonal Object must have been previously published by the provider in the zone.
2. The consuming agent may not have previously received the StudentPersonal Object but must use the contents of the 'StudentPersonalRefID' in the return of its schedule information so that the Schedule & Student information can be matched correctly.

XML Sample:

```
<StudentSnapshot SnapDate="2008-01-01" StudentPersonalRefId="A15484ED564995254A4568E5FFC5100BD" SchoolYear="2008">
  <Name Type="LGL">
    <FamilyName>Johnson</FamilyName>
    <GivenName>Alison</GivenName>
  </Name>
  <LocalId>ALL0021</LocalId>
  <StateProvinceId>1234567890</StateProvinceId>
  <Gender>F</Gender>
  <BirthDate>1993-03-02</BirthDate>
  <Age>15</Age>
  <HomeEnrollment>
    <StudentSchoolEnrollmentRefId>0847987235489729AAA73011BB365EC3</StudentSchoolEnrollmentRefId>
    <SchoolName>Blackburn HS</SchoolName>
    <SchoolInfoRefId>834787627836AC74B05EE3066ABC9231</SchoolInfoRefId>
    <LocalId>9991</LocalId>
    <Status>Active</Status>
    <YearLevel>10</YearLevel>
    <Homeroom>10A</Homeroom>
  </HomeEnrollment>
</StudentSnapshot>
```

Base Staff Information (contained within Staff Personal)

Base Staff information is required to allow Staff to be scheduled. This information is described below. The full definition of StaffPersonal will be defined in School Information Object Plan as a part of the SIF AU Specification..

Name	StaffPersonal		
Description	This object needs to contain enough information pertaining to a Staff Member to identify a staff member and the subjects they are eligible to teach. The base information will be a subset of the Staff Personal Object.		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	@RefId	M	GUID assigned to each Staff member
LocalId		M	Local Staff Identifier
Name		M	Staff Name
Title		O	Staff Title
StaffTimeFraction		O	Time Fraction of Staff Member
OtherNames		O	Staff Other Name – Could be name used in the TimeTable
PhonenumberList		O	PhonenumberList
EmailList		O	EmailList
AddressList		O	AddressList
StaffSubjectsList (Repeatable)		OR	Subjects Staff are able to teach. (See below)

Sample XML

```
<StaffPersonal RefId="D3E34F419D75101A8C3D00AA001A1652">
  <LocalId>946379881</LocalId>
  <StateProvinceId>C2345681</StateProvinceId>
  <Name Type="LGL">
    <Title>Mr.</Title>
    <FamilyName>Woodall</FamilyName>
    <GivenName>Charles</GivenName>
  </Name>
  <Title>Principal</Title>
  <PhoneNumberList>
    <PhoneNumber Type="888">
      <Number>0416137954</Number>
    </PhoneNumber>
  </PhoneNumberList>
  <EmailList>
    <Email Type="Primary">chuckw@edumail.vic.gov.au</Email>
  </EmailList>
  <StaffSubjectsList>
    <Subject>ENG</Subject>
  </StaffSubjectsList>
</StaffPersonal>
```

StaffSubjects

Name	StaffSubjects
Description	This element/object contains Staff subjects they are eligible to teach together with the teaching preference.
Type	Object
Status	Draft Submission

Revision History			
Rev. Date			
Element	Attrib	Char	Description
Preference Number		O	Priority of Subject to Teach
SubjectLocalID		R	SubjectID

Base Room Information (contained within RoomInfo)

RoomInfo

Base Room information is required to allow it to be scheduled as a resource. This information is described below. The full definition of RoomInfo will be defined in School Information Object Plan as a part of the SIF AU Specification..

Name			
RoomInfo			
Description			
This object contains all of the information about a school's room. This object may contain a reference to a room type so that it may represent anything from a gym, cafeteria, to a standard classroom. The StaffList element usually contains the homeroom teacher. This object must identify the minimum characteristics of a room that will allow it to be scheduled as a resource. See School Information for full list of available elements in RoomInfo.			
Type			
Object			
Status			
Draft Submission			
Revision History			
Rev. Date			
Element	Attrib	Char	Description
@RefId		M	GUID that identifies this room.
@SchoolInfoRefId		O	GUID that identifies the school that this room belongs to. If the SchoolInfo Object has been published in the zone. If not use Local School ID.
RoomNumber		M	Room number as presented to the user/application.
Description		O	Friendly name that can be assigned to the room (e.g. Staff Cafeteria).
Capacity		M	Seating Capacity for TimeTabling purposes

Sample XML

```
<RoomInfo RefId="D3E34B359D75101A8C3D00AA001A1652" SchoolInfoRefId="A2E35B359D75101A8C3D00AA001A0000">
  <RoomNumber>101</RoomNumber>
  <Description>Room 101</Description>
  <Capacity>35</Capacity>
</RoomInfo>
```

SubjectTimeTableReference

Name			
SubjectTimeTableReference			
Description			
This object identifies the subject or distinct piece of curriculum that needs to be scheduled.			
Type			
Object			
Status			
Draft Submission			
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	@RefID	M	GUID assigned to each SubjectTimeTableReference
SubjectLocalID		M	SubjectLocalID - Distinct piece of curriculum that is to be scheduled.

AcademicYear		M	Subject Year Level
Faculty		O	Faculty
SubjectShortName		M	SubjectShortName
SubjectLongName		O	SubjectLongName
Subject Type		O	Core or Elective or ?

Sample XML (Note GUID's are not formed correctly)

```
<SubjectTimeTableReference RefID="07AR">
  <SubjectID>
    07AR
  </SubjectID>
  <FullName>
    7 Art
  </FullName>
  <ShortName>
    7 ART
  </ShortName>
</SubjectTimeTableReference>
```

StudentSubject (Student Subject Choices)

Name	Student Subject Choices		
Description	This object needs to link to both the base StudentData and the SubjectTimeTable Reference. it contains a particular students subject list. As an output from a Student Management System it would contain a subject choice. As an output from a TimeTabling package it contains the StudentsSubjects as scheduled.		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	RefID	M	GUID assigned to each StudentSubject
@StudentPersonal\RefId		M	If the StudentPersonalObject has been previously been published. The GUID of the student rom the StudentPersonal Object. If not use the StudentRefID from the StudentSnapshot
@SubjectTimeTableReference\RefID		O	The GUID of the SubjectTimeTableReferenceGUID
@StaffPersonal\RefId		O	The GUID of the staff member from the StaffPersonal Object.
SubjectLocalID		M	SubjectID
SubjectLongName		O	SubjectLongName
ClassIdentifier		M	ClassIdentifier
StaffPersonal\LocalID		O	Staff Unique Identifier
StudentPersonal\LocalID		M	Student Unique Identifier
Subject Priority		O	Priority of Subject within Student's Choices

Sample XML (Note GUID's are not formed correctly)

```
<StudentSubject RefId="D3E34B359D75101A8C3D00AA001A1652">
  <StudentPersonalLocalID>ADE0050</StudentPersonalLocalID>
  <SubjectID>08DR</SubjectID>
  <ClassIdentifier>1</ClassIdentifier>
</StudentSubject>
```

Schedule Information

TimeTable

Name	TimeTable		
Description	This object identifies a particular schedule (timetable)..		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	RefId	M	The GUID of the Timetable.
Title		M	Unique Name of the proposed Time Table
DaysperCycle		M	number of days in the Time Table cycle
PeriodsperCycle		M	number of periods in the Time Table Day

Sample XML (Note GUID's are not formed correctly)

```
<Timetable RefId="64A309DA063A2E35B359D75101A8C3D0" SchoolInfoRefId="019991">
<TimetableID>
2008S1
</TimetableID>
<Title>
2008 Semester 1
</Title>
<DaysPerCycle>
5
</DaysPerCycle>
<PeriodsPerDay>
6
</PeriodsPerDay>
</Timetable>
```

TimeTableDay

Name	Time Table Day		
Description	This object identifies a 'day' in a TimeTable.		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	RefId	M	The GUID of the Timetable Day
DayID		M	Local Time Table Identifier
DayTitle		M	Time Table Day Identifier
TimeTableID		M	Title of Day eg. Monday or Day 1

Sample XML (Note GUID's are not formed correctly)

```
<TimetableDays>
<TimetableDay RefId="2008S11" TimeTableRefId="2008S1">
<DayID>
1
</DayID>
<DayTitle>
Monday
</DayTitle>

</TimetableDay>
<TimetableDay RefId="2008S1-2" TimeTableRefId="2008S1">
<DayID>
2
```

```

</DayID>
<DayTitle>
Tuesday
</DayTitle>

</TimetableDay>
<TimetableDay RefId="2008S1-3" TimeTableRefId="2008S1">
<DayID>
3
</DayID>
<DayTitle>
Wednesday
</DayTitle>

</TimetableDay>
<TimetableDay RefId="2008S1-4" TimeTableRefId="2008S1">
<DayID>
4
</DayID>
<DayTitle>
Thursday
</DayTitle>

</TimetableDay>
<TimetableDay RefId="2008S1-5" TimeTableRefId="2008S1">
<DayID>
5
</DayID>
<DayTitle>
Friday
</DayTitle>

</TimetableDay>
</TimetableDays>

```

TimeTablePeriod

Name	Time Table Period		
Description	This object identifies a period/or a session within a TimeTable Day.		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
	RefId	M	The GUID of the TimeTable Period
PeriodTitle		M	Title of Period eg. Session 1 or Period 1
PeriodID		M	Period in Day Identifier
LocalTimeTableID		M	Local Time Table Identifier

Sample XML (Note GUID's are not formed correctly)

```

TimetablePeriods>
<TimetablePeriod RefId="2008S1-P1" TimeTableRefId="2008S1">
<PeriodID>
1
</PeriodID>
<PeriodTitle>
P1
</PeriodTitle>

</TimetablePeriod>
<TimetablePeriod RefId="2008S1-P2" TimeTableRefId="2008S1">
<PeriodID>
2
</PeriodID>

```

```
<PeriodTitle>
P2
</PeriodTitle>
```

```
</TimetablePeriod>
<TimetablePeriod RefId="2008S1-P3" TimeTableRefId="2008S1">
<PeriodID>
3
</PeriodID>
<PeriodTitle>
P3
</PeriodTitle>
```

```
</TimetablePeriod>
<TimetablePeriod RefId="2008S1-P4" TimeTableRefId="2008S1">
<PeriodID>
4
</PeriodID>
<PeriodTitle>
P4
</PeriodTitle>
```

```
</TimetablePeriod>
<TimetablePeriod RefId="2008S1-P5" TimeTableRefId="2008S1">
<PeriodID>
5
</PeriodID>
<PeriodTitle>
P5
</PeriodTitle>
```

```
</TimetablePeriod>
<TimetablePeriod RefId="2008S1-P6" TimeTableRefId="2008S1">
<PeriodID>
6
</PeriodID>
<PeriodTitle>
P6
</PeriodTitle>
```

```
</TimetablePeriod>
</TimetablePeriods>
```

TimeTableInstance

Name	Time Table Instance		
Description	This object identifies a specific instance (schedule) of a particular TimeTable.		
Type	Object		
Status	Draft Submission		
Revision History			
Rev. Date			
Element	Attrib	Char	Description
RefID	RefId	M	The GUID of the TimeTable Instance.
TimeTableID		M	Time Table Identifier
SubjectLocalID		M	SubjectID
ClassIdentifier		M	Class Identifier
StaffPersonal\LocalId		M	StaffPersonal\LocalId
RoomInfo\RoomNumber		M	Room number as presented to the user/application.
PeriodID		M	Actual Period Number in the Day
DayID		M	Actual Day in the Cycle

Sample XML (Note GUID's are not formed correctly)

```
<TimeTableInstance RefID="UniqueID">
  <TimeTableInstanceID>
    3981
  </TimeTableInstanceID>
  <SubjectID>
    07EN1
  </SubjectID>
  <ClassIdentifier>
    1
  </ClassIdentifier>
  <StaffPersonal><LocalID>
    LESE
  </LocalID></StaffPersonal>
  <RoomInfo><RoomNumber>
    R16
  </RoomNumber></RoomInfo>
  <DayID>
    1
  </DayID>
  <PeriodID>
    1
  </PeriodID>
</TimeTableInstance>
```

Issues

This draft document describes a prototype of the process to create a base Schedule.

With this release to the SIFA Community, the Australian Consortium invites input and collaboration with developers and vendors of applications who may offer TimeTabling functionality and/or Curriculum delivery.

Technical details of interaction with ZIS and other Agents need to be investigated further and confirmed.

This draft collection is to be used in a Proof of Concept in Victoria and the outcome of which will inform and update this document.

XML Examples

Base Student Data

Use Cases

TimeTabling Collection: Creation of Base Time Table Data for export

Technical Use Case	
SIF Working Group: National Data Definitions Working Group	Title: Creation of Base Time Table Data SIF Object: Use Case Number: #1 Status: Draft History: New
Use Case Type	Mandatory
SIF Version and References	0.1
Summary	Base Time Table information needs to be created and confirmed before export from School's Student Administration Package This Use Case highlights the creation and export of Base Time Table Data required before any scheduling of resources can commence.
Actors	Primary: School Administration System Secondary: ZIS – Able to interpret current specification and any required objects.
Preconditions*	Student information is input Room/Resource Data is updated Staff information is input Subjects taught by a teacher entered/confirmed Student nominates subject choices (Optional – may nominated in Time Tabling package) School Administration Package is ready to create a schedule – creates export
Post Conditions*	Information is accepted and loaded into the Time Tabling Package
SIF Mandatory Objects	StudentSnapShot (If StudentPersonal & StudentSchoolEnrollment have not been consumed) StaffPersonal (subset) containing StaffSubjects RoomInfo (subset) SubjectTimeTableReference
SIF Optional Objects	StudentSubjects (Information required for this object may be defined within the TimeTabling package itself or may be defined primarily within the Schools Administration Package. The primary source of this information is the custodian)
Open Issues	
Variations	
Exceptions	

TimeTabling Collection: Schedule Creation

Technical Use Case	
SIF Working Group: National Data Definitions Working Group	Title: Schedule Creation SIF Object: Use Case Number: #2 Status: Draft History: New
Use Case Type	Mandatory
SIF Version and References	0.1
Summary	Information has been sent to the Time Tabling package in the expectation that the third party package can now create a valid schedule for the school.
Actors	Primary: Time Tabling Package Secondary: ZIS – Available to receive schedule agent from a Vendor Package
Preconditions*	Time Tabling Software receives information from School Administration Package Time Tabling Base information is loaded Scheduling Process Occurs School confirms schedule suitability Time Tabling Package is ready to export a schedule – creates schedule export
Post Conditions*	Information is exported from Time Tabling Package
SIF Mandatory Objects	StudentSnapShot (If StudentPersonal & StudentSchoolEnrollment have not been consumed) StaffPersonal (subset) containing StaffSubjects RoomInfo (subset) SubjectTimeTableReference
SIF Optional Objects	StudentSubjectChoices (Information required for this object may be defined within the TimeTabling package itself or may be defined primarily within the Schools Administration Package. The primary source of this information is the custodian)
Open Issues	
Variations	
Exceptions	

TimeTabling Collection: Schedule Export/Load

Technical Use Case	
SIF Working Group: National Data Definitions Working Group	Title: Schedule Export Load SIF Object: Use Case Number: #3 Status: Draft History: New
Use Case Type	Mandatory
SIF Version and References	0.1
Summary	Schedule has been prepared and confirmed and is to be exported from the Time Tabling package.
Actors	Primary: Time Tabling Package & Schools Administration System and/or Curriculum Delivery System Secondary: ZIS – Available to receive a change agent from a

	Vendor Package and submit to a StudentInformationSystem or Centralised Curriculum Delivery System
Preconditions*	School Administration System loads new schedule information
Post Conditions*	Additional Organisational information updated/confirmed
SIF Mandatory Objects	Time Table Instance
SIF Optional Objects	
Open Issues	
Variations	
Exceptions	

DRAFT