

Appendix 5: Interfaces- Systems to be interconnected

This appendix contains a list of systems to be linked within the Centralization authorization project. It cannot be ruled out that this list will be adjusted on the basis of advancing insight. At the bottom a visual overview.

Phase	Contact	Type of system	Name	Scope	Definition	Current Coupling method	Optional Coupling method	Type
Bron systems								
01	Department HR&O	Source	HR2Day	Employee	Synchronizing subset of employee data from HR2Day to the ICT solution.	Batch CSV	HR2Day REST API www.hr2day.com	Identities
01	Department SV	Source	Progress	Student	Synchronizing subset of student data from ProgressWWW/Progress.net to the ICT solution.	Batch CSV	Progress REST API www.progress.com	Identities
01	Department I&T	Source	Business Model	Employee	Reading periodically offered organizational structure and information.	SQL Link	SQL Link	Identities
01	Department I&T	Source	Chargeback database	Employee	06 numbers employees	SQL Link	SQL Link	Identities
01	Department I&T	Source	FAM (Functional account module)	Non-personal identities	Synchronizing data for non-personal identities	SQL Link	SQL Link	Identities
01	Department MC&PR	Source	CRM-next	Relationships	Synchronizing data for relationships	SQL Link	CRM-next REST API www.crmnext.com	Identities

Generic (target) systems

01	Department I&T	Target	ODS (Operational Datastore)	Staff member and student	Contains all accounts (?) enriched with additional information. Source for some applications	SQL Link	SQL Link	Identities
01	Department I&T	Target	MS Active Directory	Staff member and student	Provisioning and authorizations, based on assigned organizational and/or system roles, of an AD account; assigning an e-mail address and creating a mailbox; various AD groups etc. to Active Directory.	MIM ADMA	LDAP	Identities and authorizations
01	Department I&T	Target	FAM (Functional Accountmanagement)	Staff member	Functional Account Management for staff members	MSSQL DB	MSSQL DB	Identities and authorizations
01	Department I&T	Target	MS Exchange	Staff member and student		MIM Exchange	MS Exchange	Identities
01	Department MC&PR	Target	CRM-next	Relationships	Synchronizing data for relationships	SQL Link	CRM-next REST API www.crmnext.com	Identities and authorizations
01	Department I&T	Target	Enterprise Directory Service (EDS)	Staff member and student	For interventions on the fully automated identity lifecycle process, a separate active directory instance, the enterprise directory, has been set up. This EDS has been expanded with the eduPerson scheme and contains additional personal data. Intervening actions are to immediately disable an account, remove a change date from an e-mail address, and keep an account alive longer outside the delivery of a source system. The EDS also	MIM ADMA	LDAP	Identities

					feeds the Fontys ICT University of Applied Sciences with employee and student data, they have a separate ICT environment			
01	Department I&T	Target	FIP (Fontys Integration Platform)	Employee/ Student		SQL Link	SQL Link	Identities

Operational management systems								
02	Department HR&O	Target	HR2Day	Employee	From the ICT solution, additional employee data must be sent back via the available interface, such as e-mail address.	Batch CSV	HR2Day REST API www.hr2day.com	Identities and authorizations
02	Department F&I	Target	Unit4 FP&A	Employee	Concerns (de)provisioning on a regular basis or event driven from employee identity and authorization data to Unit4 FP&A	FTPed (csv)	Unit4 REST API www.unit4.com	Identities and authorizations
02	Department F&I	Target	Unit4 ERP	Employee	Concerns (de)provisioning on a regular basis or event driven from employee identity and authorization data to Unit4 ERP	Uses a client that is generated on the basis of swagger and is RESTful (CRUD via http methods).	Unit4 REST API www.unit4.com	Identities and authorizations
02	Department O&O	Target	Digital archive (Content Manager)	Employee	Concerns (de)provisioning on a regular basis or event-driven from employee and/or student identity and authorization data to Digital Archive.	SQL Link	SQL Link	Identities and authorizations

Education applications								
02	Department SV	Target	Progress	Staff member and student	Concerns (de)provisioning on a regular basis or event driven from employee identity and authorization data to Progress	SQL Link	Progress API www.progress.com	Identities and authorizations
02	Department O&O	Target	Portfolio (Gradework)	Staff member and student	Concerns (de)provisioning on a regular basis or event driven of employee and/or student identity and authorization data to Gradework	XML-based integration; Restful	Gradework API GradeWork - Xebic	Identities and authorizations
02	Department O&O	Target	Scheduling and deployment planning(Xedule)	Staff member and student	Concerns (de)provisioning on a regular basis or event-driven of employee and/or student identity and authorization data to Xedule.	RESTful OData	Xedule API GitHub - rreuvekamp/xedule-api: Unofficial API for http://summacollege.xedule.nl	Identities and authorizations
02	Department O&O	Target	LMS (Canvas)	Staff member and student	Concerns (de)provisioning on a regular basis or event-driven of employee and/or student identity and authorization data to LMS Canvas.	NSwag generated; Restful	Canvas LMS API Canvas LMS REST API Documentation	Identities and authorizations
02	Department O&O	Target	Toetsapp (Testvision)	Staff member and student	Concerns (de)provisioning on a regular basis or event driven from employee and/or student identity and authorization data to Testvision and AnsExam.	Xml based client; RESTful	Testvision API TestVision: your reliable partner in digital testing	Identities and authorizations
02	Department O&O	Target	Test app (AnsExam)	Staff member and student	Concerns (de)provisioning on a regular basis or event driven from employee and/or student identity and authorization data to Testvision and AnsExam.	Client self-assembled; Restful	AnsExam API	Identities and authorizations
02	Department O&O	Target	Research Drive Dataverse	Staff member and student	Concerns (de)provisioning on a regular basis or event	Manual offline	REST API	Identities and authorizations

					driven from employee and/or student identity and authorization data to Testvision and AnsExam.			
02	Department O&O	Target	Intramed EPD	Staff member and student	Concerns (de)provisioning on a regular basis or event driven from employee and/or student identity and authorization data to Testvision and AnsExam.	Manual offline	REST API	Identities and authorizations