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Design & Installation

Architecture FLX - Multisite

Learning objectives | Multisite Design & Installation

At the end of this lesson, you should be able to:

- Describe the steps required for the design phase
- Describe the steps required for the installation phase

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Overall design and commissioning workflow

Kick-off
- ✓ Complete project template and requirements document
- ✓ Work orders requested to assign designer(s) + installer(s) to project

Lighting design
- ✓ Creation of the reflected ceiling plan

Detailed controls design
- ✓ Access to site is managed by workorder
- ✓ Project file is uploaded to cloud linked to this site
- ✓ Dashboard preparation in the cloud
- ✓ Design work order is resolved

Ordering
- ✓ Order products (lighting and controls)

Offsite preparation | by experts

Installation
- ✓ Work order manages access to the site
- ✓ All lights and controls installed
- ✓ Establish connectivity of the site gateway

Commissioning
- ✓ Download of the project file
- ✓ Gateway cloud provisioning
- ✓ Deploy project file

Validation
- ✓ E2E validation from cloud to light
- ✓ Final project file is updated in the cloud

Site Delivery
- ✓ Workorder is resolved
- ✓ Site ready to use
- ✓ Handover of the site to the customer

Onsite activities | by site engineer

Workorders	⇨ Secure and well-defined access control
Centralized digital storage	⇨ More efficient workflow, mitigate errors and double work
Offsite preparation	⇨ Flexibility + cost saving
Workflow wizard	⇨ Clear workflow with well defined handshakes

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Offsite preparation

	Steps (what?)	Actor (who?)	Tool (how?)
Functional design brief	1) Request new customer project ▪ Input: reference store design + deltas + tender document ▪ Output: completed project template & requirement document 2) Align with customer on name convention (areas / channels / scenes) 3) Request workorders for a) design (light + controls) and b) installation	KAM, system architect, @ market or consultant	Project template OTRS tickets
Lighting design	1) Create lighting design ▪ Input: site layout / floorplan ▪ Output: reflected ceiling plan, + luminaire count 2) Uploading output into cloud or send to controls designer 3) Resolve workorder (future)	Lighting designer @ LIAS	AutoCAD
Controls design	1) Create controls design ▪ Input: requirements in project template, reflected ceiling plan (pdf) ▪ Output: controls BoM + project file + installation summary (wire diagram + termination details for load controller) 2) Uploading output into cloud 3) Create / Extend (areas / channels / scenes) in cloud for customer 4) Resolve workorder (for controls design)	System engineer / proposal manager / estimator @ system centers or VAP	System Designer* integral part of System Builder Interact Multisite System Manager
Approval	1) Approval by customer 2) Ordering of products (lighting + controls) 3) Ready for installation	Customer / main contractor	

* For **System Designer** you need a **technician license** = designer license of **System Builder**

Onsite commissioning and validation

✉ Installer receives workorder via e-mail

Login using his own e-mail credentials
⇨ Select workorder (access to specific site of customer)
⇨ Preview tasks to be done on site & ⇨ follow wizard step by step

Install site gateway & scan QR-code
✓ Establish connectivity
✓ Cloud provisioning of gateway

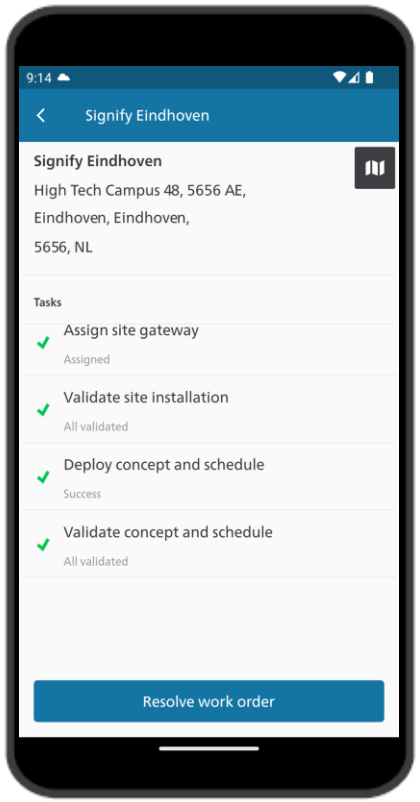
Install & wire Dynalite network controllers incl sensors & panels
⇨ Deploy prepared project file into DyNet network using System Builder
• Coming soon: installer app triggers project file deployment from cloud

Validate of all areas and channels
✓ E2E validation: app ⇨ cloud ⇨ visual inspection on-site ⇨ confirm
✓ Mobility allows a single person to complete the task

Deploy default concepts and schedules from cloud & check
✓ Customer and format specific
✓ Adjustable by format manager centrally

Finish site & “Resolve workorder”
✓ Site shows up at customer dashboard as “ready to use”

Download **Philips Dynalite Enabler App** from iTunes App store or Google play



✓ Enables installer to do templated commissioning

✓ Links to Multisite portal
✓ iOS and Android app
✓ Globally available

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Lesson review | Multisite Design & Installation

In this lesson, you learn that:

- A Multisite project is divided in an offsite stage for preparation and design; and an on-site stage which includes installation, commissioning, validation and finally handover.
- The project template form is used in both System Builder software and Retail cloud to avoid mistakes on the information aligned with the customer.
- The Philips Dynalite Enabler app will finally link the gateway to the cloud Database, and help validating the system behavior. Once validated, the Scenes and Schedules can be deployed to the site.

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