

# QAONLINE

## QA/QC EDMS

### Technical overview



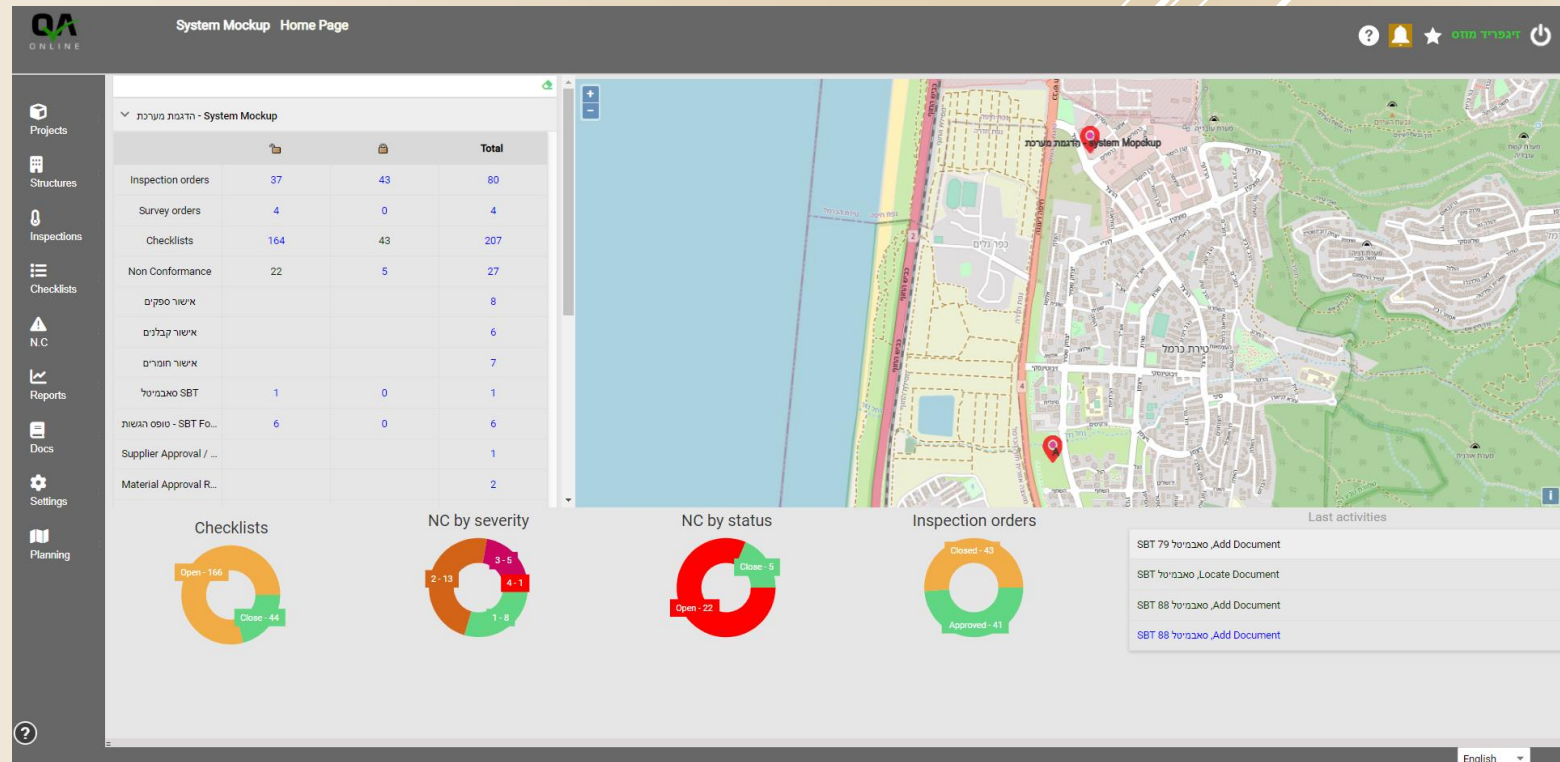
# QAONLINE – Features and components

- Web-based system and Application
- Supports Project communication management
- Includes QA/QC Forms, processes, and workflows
- Laboratory and Aconex Data Interface
- Procedures compliance monitoring and alerts
- BI dashboards and Reports



# QAONLINE – Home Page

- Active Projects list
- Recent documents and activities hyperlinks
- Map display
- Project Chart Summary



# Project General Details and Stakeholders

- Project Description and activity dates
- Applied Specs and Standards
- List of Participant Companies and Organizations
- List of contact Persons, roles and positions

QA ONLINE - System Mockup Add New Project

**GENERAL DETAILS** **CONTRACTORS**

**Project Name:**  
הדגמת מערכת - System Mockup

**Contract Num:**  
00001

**Start date:**  
01/10/2016

**Description :**

**Spec:**  
Basalt Aggregate Specifications  
The underground Stations Civil Works Particular Specifications - NTA  
"המפרט הכללי בהוצאת משרד הבטחון" "ספר הנחול"

GENERAL DETAILS				CONTRACTORS					
Supplier Type	Supplier Name	Active User	#	Contact	Position	Email	Mobile	Acti...	
Contractors	תשתיות בע"מ Infra&Structure	<input type="checkbox"/>		בוריס בוגזל	Constructi... Engineer			<input checked="" type="checkbox"/>	
Contractors	מבני אנרגיה בע"מ	<input checked="" type="checkbox"/>		Omer Bar	Constructi... Engineer	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	
Quality Control	בקרת איכות אנרגטית	<input checked="" type="checkbox"/>		Omer Bar	Constructi... engineer / foreman	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	
Quality Assura	הבטחת איכות 1234	<input checked="" type="checkbox"/>		Omer Bar	Foreman	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	
				Omer Bar	Constructi... Engineer	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	
				Omer Bar	Project Manager	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	
				Omer Bar	Site Manager/F...	support@qaonline.co.il	050-1234123	<input checked="" type="checkbox"/>	



# Scope and Construction elements definition

Project WBS and  
“Construction elements  
Tree”  
hierarchical breakdown

Construction elements  
related to types,  
procedures and  
corresponding  
checklists

QA  
ONLINE

System Mockup Structure edit

Projects

Structures

Inspections

Checklists

N.C

Reports

Docs

Settings

Planning

DP47 - Sample UG Station

Railway Station

DP47

DP48 - Mockup UG Station

Railway Station

DP48

Mock-Up

GENERAL

Serial Number	Structures	Structure Type	Range	Supplier	Structural code
1	Section	Structures	1 - 100		

Serial Number	Structure Part	Structure Part Type	Range	Supplier
1	Earthworks	Earth works	1 - 100	
2	Foundation piles	Foundation	1 - 100	
3	Concrete Works	Structure Casting	1 - 100	
4	Electrical Works	Electricity	1 - 100	
5	Track Works	GENERAL	1 - 100	

Serial Number	Element	Element Type	Range	Supplier	Layer Order	Layers Tracking	Layer Tracking Name	באזמורה
1	Foundation Slab	concrete plate	1 - 100		1	<input checked="" type="checkbox"/>	Continual	
2	Surface slab	concrete plate	1 - 100		2	<input checked="" type="checkbox"/>	Continual	
4	Track Drainage	drainage pipe	1 - 100		4	<input type="checkbox"/>	Continual	



# Preliminary Quality Controls

- Preliminary Quality Controls Management using forms and workflows adjusted to project specifications.
- Approval and documentation of Subcontractors, Suppliers, Materials, etc.
- **Approval validation expiry alerts.**

Docs

Settings

Locate Document >

Add Document >

Tasks Report

דוח מסמכים פתוחים

General Documentation

INCOMING MATERIALS INSPECTION

Insulation test reports

Materials Approval

Mock Up Report

Suppliers / Sub-Contractors Approval

SVR

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Sample QA Banner

Name	Form Name	Open By
Item Mockup	Material Approval Request / טופס אישור חומרים - 3	דיגפריד מוזס

Supplier Name	Approval date	
A.S.H. Tassiot Plastic	28/07/2020	31/12/2020
Peher	22/07/2020	05/04/2022
IM Segev	16/07/2020	14/06/2022
Elyahou Plastics Ltd	21/07/2020	31/12/2020
Banias-Bambiplast	21/07/2020	05/01/2022
wolfman	23/08/2020	31/12/2020
Creative Concrete	09/09/2020	31/12/2021
Nadir Color Industries	25/08/2020	30/12/2020
ישראל סיליקא - silika	12/11/2020	31/12/2021
A.Z Advanced construction technologies	11/11/2020	28/05/2021

Page 2 of 3 (30 items) < 1 2 3 >

**טופס אישור חומרים - 3 / Material Approval Request**

QAOL Ref.

QC-MAR-00003

Supplier name / שם ספק

Demo Supplier

Project Name / שם הפרויקט

System Mockup - הדגמת מערכת

Main Contractor / קבלן ראשי

Infra&Structure חשמית בע"מ

Material Proposed / החומר המוצע

Demo Material

Contract Compliance / התאמה לדרישות החוזה

Identical / זהה

Validation / תוקף אישור

01/12/2020

30/12/2022

Approved by Client / אושר ע"י המזמין

Yes

Contractual Ref. / דרישה חוזית - פרק וסעיף

spec. 0013423553

Client Approval Ref. / סימנין אישור המזמין

AC-22356.76

Reason for Alternative / סיבה לשימוש בחלופה

NA

**אישורים / Approvals**

Date	Position	Status	Name	Remarks	Signature
13/12/2022	Systems QC		דיגפריד מוזס		

Page 1 of 1

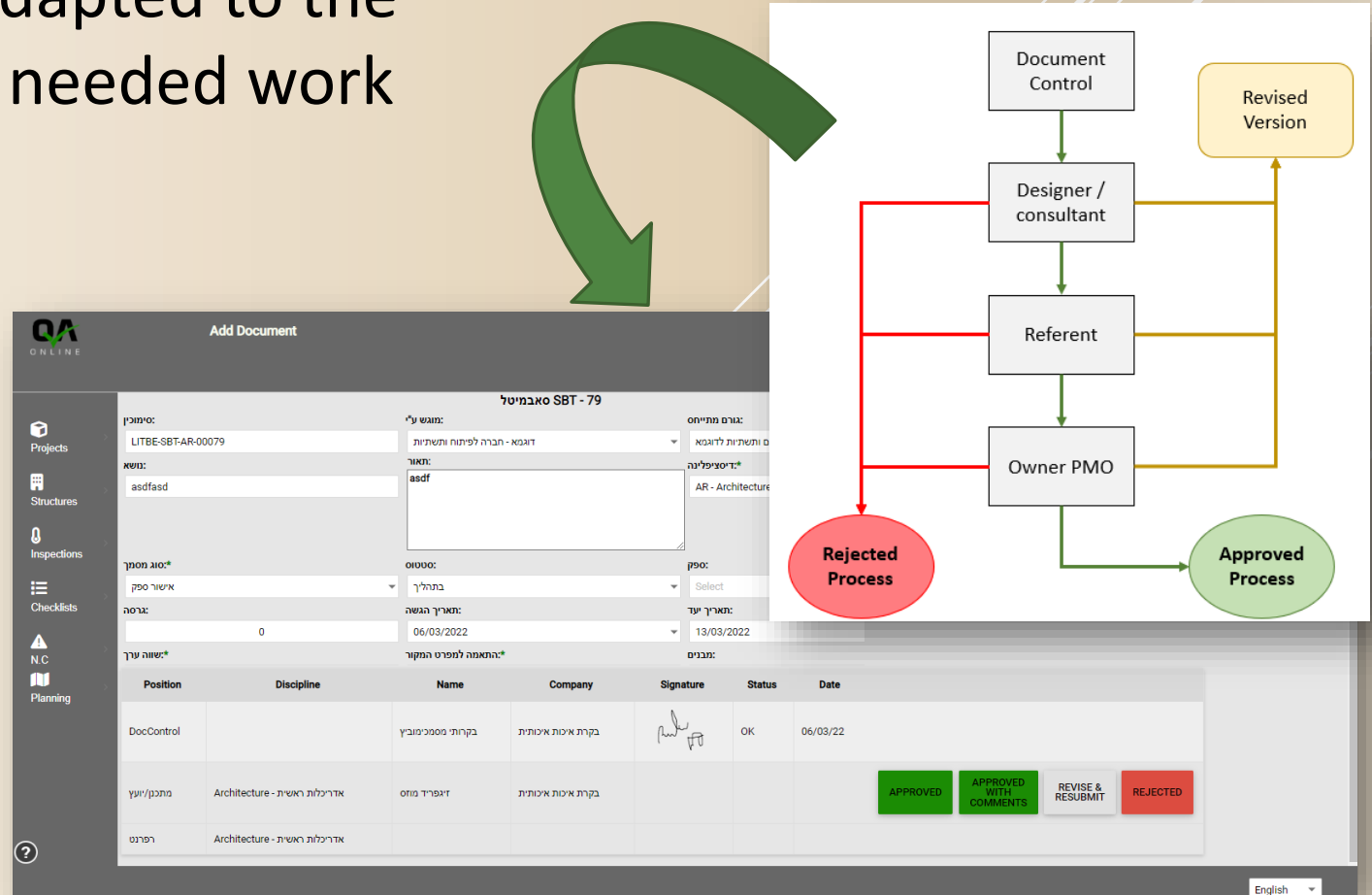
QA Powered by Qaonline





# Documentation and Approvals workflows

- Digital Forms and processes adapted to the client's requirements and the needed work procedures.
- Step-by-step approval Process allowing specific actions and status control at each workflow stage.



# Non-Conformity reporting

- Digital Forms and processes - adapted to the client's requirements and the needed work procedures.
- Definition of severity level, required action, correction, root cause analysis and further process monitoring and classification data.
- NCR closure process workflow.

The screenshot displays the 'QA ONLINE' interface for creating a 'New Nonconformance'. The left sidebar contains navigation icons for Projects, Structures, Inspections, Checklists, N.C. (highlighted), Reports, Docs, Settings, and Planning. The main content area is titled 'Non conformance' and includes a 'General details' tab. The form fields are as follows:

- Main Contractor:** תשתיות בע"מ Infra&Structure
- Open By:\*** QC
- Initiator:** Person PERS
- Opening Date:\*** 05/08/2020
- Estimated Closing Date:** (empty field)
- Severity Level:\*** 3
- Nonconformance Subject:\*** DOLorem Ipsum DOLorem Ipsum DOLorem Ipsum
- Location details:** Entrance Hall
- Files List** (link)
- Structure selection:** DP47 - Sample UG Station.
- NC Class.** (expandable section)
- Steps** (expandable section)
- Additional details** (expandable section)
- Approval of corrective action and NCR Closure** (expandable section)

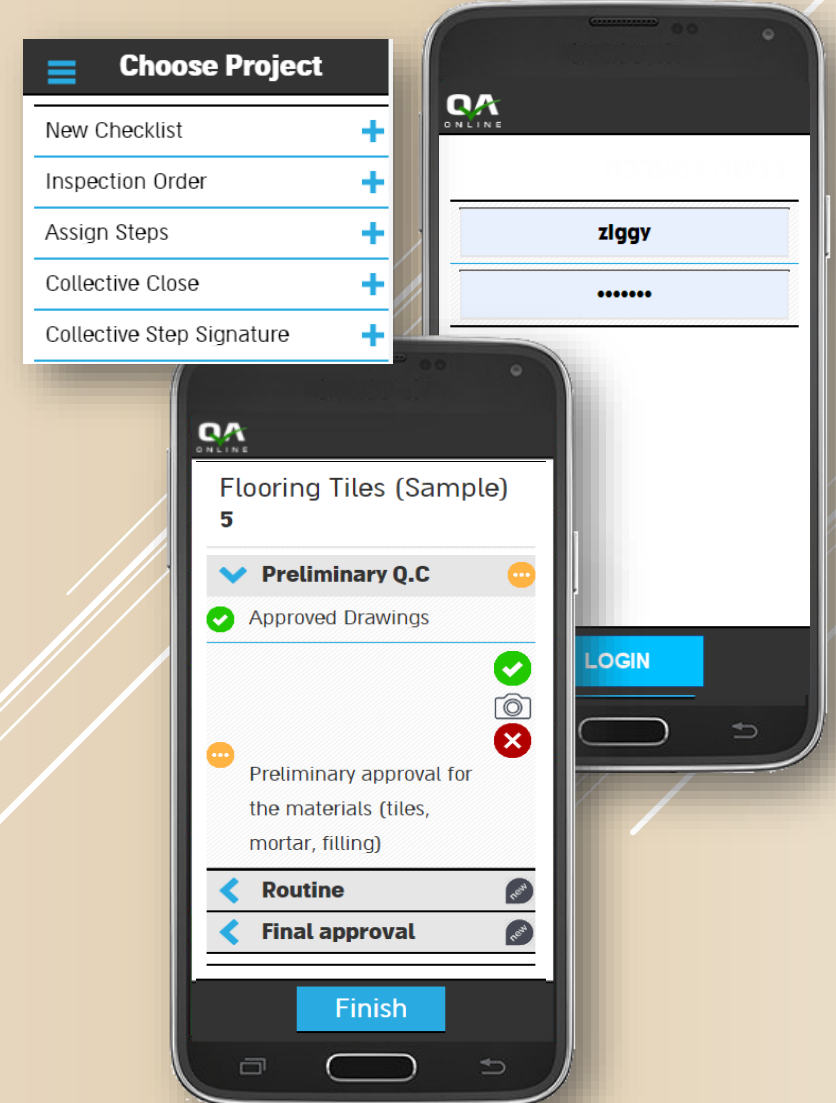
A help icon (?) is located at the bottom left of the form area.





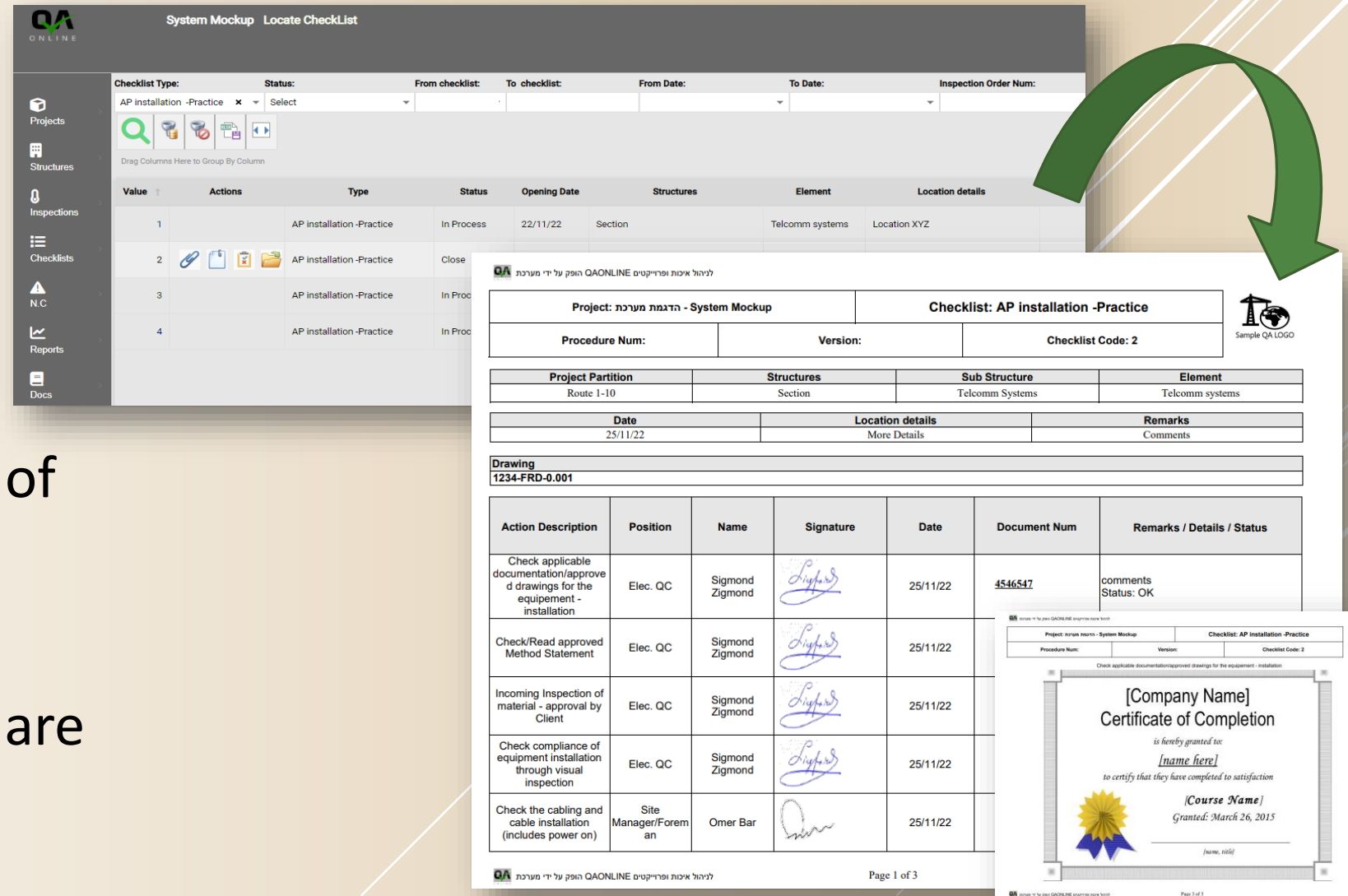
# Quality Checklists – Mobile Interface

- Digital Checklists designed according to the project-approved QA\QC procedures.
- Accessible via Application or web browsers.
- Process automation and group management.
- Collective actions and multiple signatures.
- Definition of holding and inspection stages.
- Initiation of laboratory and survey inspection directly from the checklist interface.
- Direct link to photos, certificates and related documents.



# Quality Checklists – Management console

- Online monitoring.
- Status control.
- Centralized grouping and management of records.
- Automated production of signed hard copy.
- All related documents, photos and certificates are attached to the report.



**QA ONLINE** System Mockup Locate CheckList

Checklist Type: AP Installation -Practice Status: Select From checklist: To checklist: From Date: To Date: Inspection Order Num:

Drag Columns Here to Group By Column

Value	Actions	Type	Status	Opening Date	Structures	Element	Location details
1		AP Installation -Practice	In Process	22/11/22	Section	Telcomm systems	Location XYZ
2		AP Installation -Practice	Close				
3		AP Installation -Practice	In Proc				
4		AP Installation -Practice	In Proc				

**QA** לניהול איכות ופיקוח QAONLINE הופק על ידי מערכת

Project: הדגמת מערכת - System Mockup		Checklist: AP installation -Practice	
Procedure Num:	Version:	Checklist Code: 2	
Project Partition		Structures	Sub Structure
Route 1-10		Section	Telcomm Systems
Element		Telcomm systems	
Date	Location details		Remarks
25/11/22	More Details		Comments

**Drawing**  
1234-FRD-0.001

Action Description	Position	Name	Signature	Date	Document Num	Remarks / Details / Status
Check applicable documentation/approved drawings for the equipment - installation	Elec. QC	Sigmond Zigmond		25/11/22	4546547	comments Status: OK
Check/Read approved Method Statement	Elec. QC	Sigmond Zigmond		25/11/22		
Incoming Inspection of material - approval by Client	Elec. QC	Sigmond Zigmond		25/11/22		
Check compliance of equipment installation through visual inspection	Elec. QC	Sigmond Zigmond		25/11/22		
Check the cabling and cable installation (includes power on)	Site Manager/Foreman	Omer Bar		25/11/22		

**QA** לניהול איכות ופיקוח QAONLINE הופק על ידי מערכת

Page 1 of 3

**[Company Name]**  
Certificate of Completion  
is hereby granted to:  
[name here]  
to certify that they have completed to satisfaction  
[Course Name]  
Granted: March 26, 2015  
[name, title]

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# Laboratory & Surveying ordering

- Directly from the web system or the mobile interface
- Automation of Inspection data and certificates uploads to the system.
- Automated closure of orders when receiving adequate data and certificate files.
- **Automated NCR alerts when receiving inadequate results**

The image displays the QA Online web interface for creating a new regular inspection. The interface is divided into a sidebar menu and a main content area. The sidebar menu includes options like Inspections, Checklists, Projects, Structures, N.C, Reports, Docs, Settings, and Planning. The main content area shows a form for 'New Regular Inspection' with fields for Date of Taking, Inspection time, Accuracy, Sample Quantity, Measurement Units, Contractor, Structure selection, Location, Manufacturer, and Add Inspections group. A table below the form lists inspection details with columns for Proc Num, Inspection Name, Certificates Count, and Reference Exam. The table contains two rows: one for 'Active calcium oxide content (CaO)' and another for 'Cement grout - Volume Modification'. A 'Remarks' section is also present. At the bottom, there is a 'Save and Exit' button and a 'SAVE' button. To the right, a mobile app interface is shown, displaying the same form fields in a mobile-optimized layout with a 'Save Order' button at the bottom.

**QA Online**

**Filter Parameters**

Product B-30 S3

Sample Quantity 1

Units מ"ק

Lab Executor Choose Lab

Concrete - compressive Strength Testing

**Save Order**

**Inspections**

**Survey**

Locate Order  
New Regular Inspection  
Order Pre Inspection

New Regular Inspection new by מוסד זיגפריד מוסד on 13/12/2022

Date of Taking: 12/10/2021 Inspection time: 19:25 Accuracy: Estimated

Sample Quantity: Measurement Units: Contractor: Manufacturer:

Structure selection: Location: Manufacturer:

Add Inspections group: Characterization Inspection

Proc Num	Inspection Name	Certificates Count	Reference Exam
783 ת"	Active calcium oxide content (CaO)	0	
	Cement grout - Volume Modification	0	

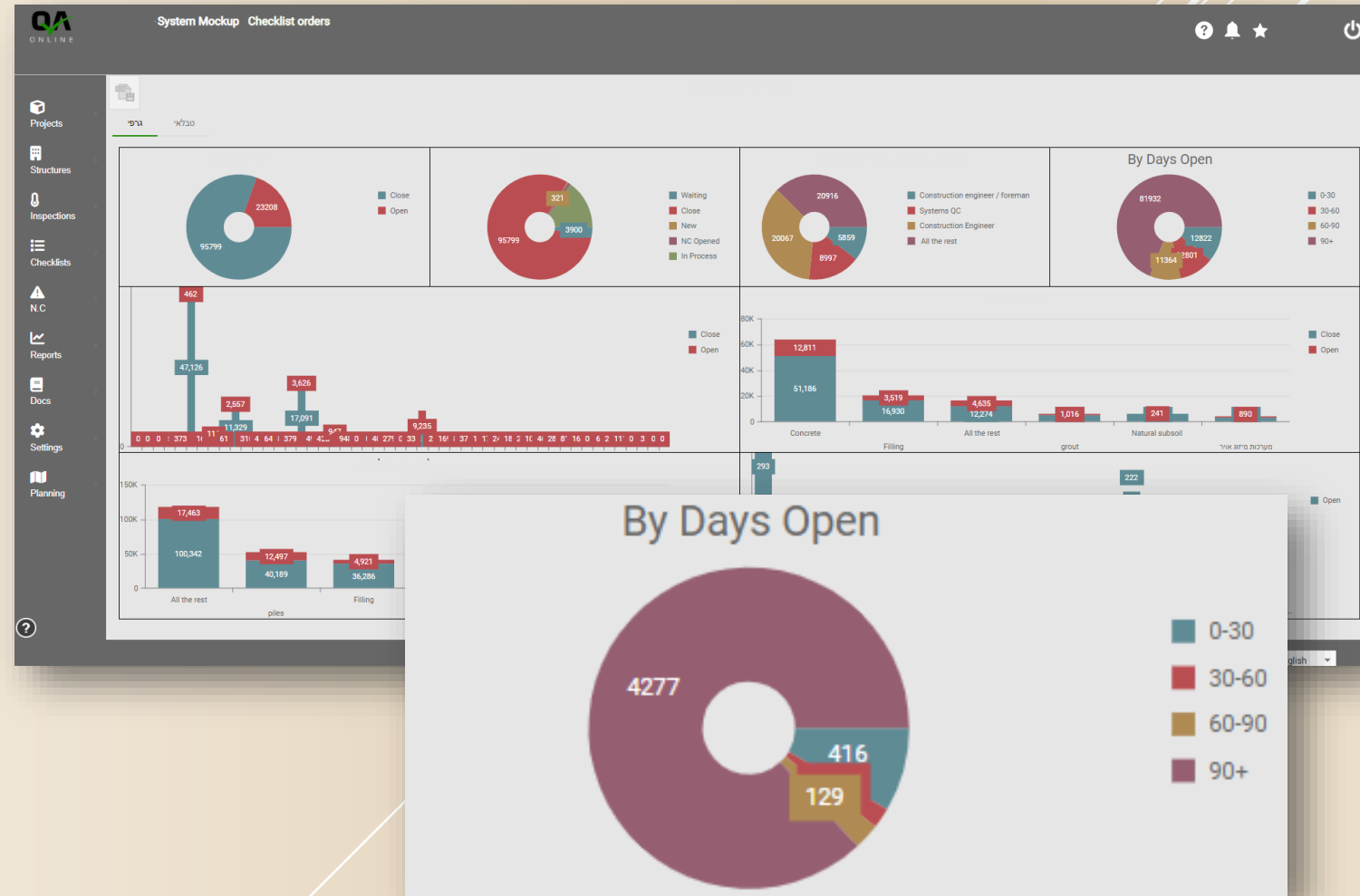
Remarks:

Order Details Complete Save and Exit **SAVE**



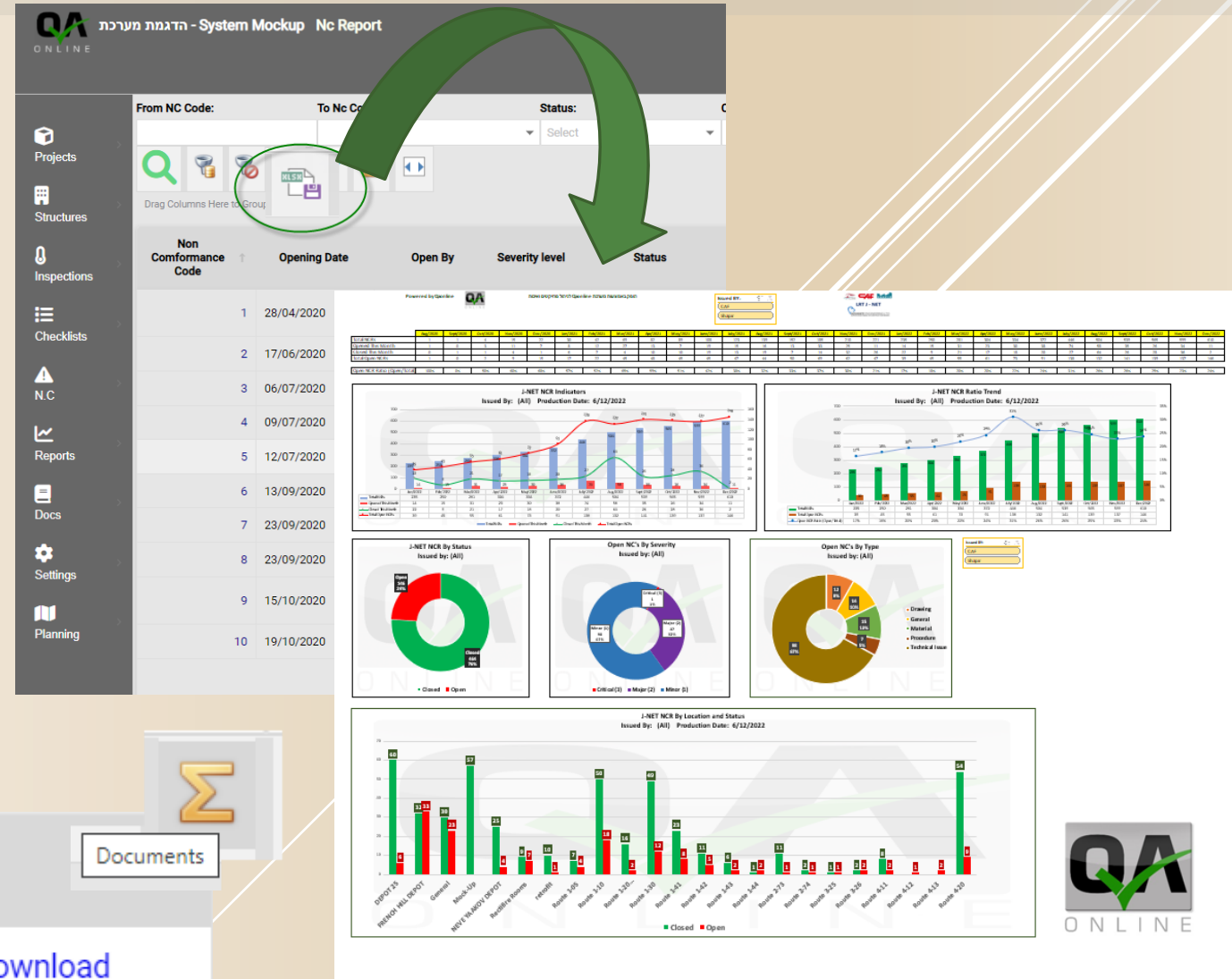
# Reports and Dashboards

- Supports automated production of tabular reports and BI dashboards
- Supports drill down and presentation of document reports.
- Flexible sorting and filtering.



# Reports and Dashboards

- Supports export of summary tabular reports and user - defined dashboards to MS Excel®.
- Supports direct downloads of reports and hard copy documents to the user's local workstation.



# Role-based Permissions, Rules and Approval workflows.

- Approval of Inspection results, submittals, RFI's, and Task-driven documents is signed according to the role, position, work discipline and permission type.
- Checklist items are related to the users based on their role, position, work discipline and project area.

QA ONLINE Add Document

Position	Discipline	Name	Company	Signature	Status	Date	Response	#
SC Quality Engineer	SC	SC Quality Engineer	SC Quality Engineer	[Signature]	OK	25/07/22		
Supervisor CSA	SC	Supervisor CSA	Supervisor CSA	[Signature]	OK	14/08/22		
SC Quality Engineer	SC	SC Quality Engineer	SC Quality Engineer	[Signature]	OK	15/08/22		

RESEND MAIL

QA ONLINE

Flooring Tiles (Sample) 5

Preliminary Q.C

Approved Drawings

Preliminary approval for the materials (tiles, mortar, filling)

Routine

Final approval

Finish

QA ONLINE

Project: 1000-1000-1000

Checklist: Concrete Piles

Procedure Num: Version: Checklist Code: 4

Action Description	Position	Name	Signature	Date	Document Num	Remarks / Details / Status
Verify As made drawing received (קבל משה)	SC Quality Engineer	SC Quality Engineer	[Signature]	21/08/22		in accordance with designer's remarks from RFI029 Status: בוצע
Verify As made drawing received (קבל ראשי)	Supervisor CSA	Supervisor CSA	[Signature]	27/07/22		Status: בוצע
קבלת תוצאות חזקת בטון ב- 7/28 או Obtaining concrete strength results at 7/28 days of age	SC Quality Engineer	SC Quality Engineer	[Signature]	28/04/22	477771	Status: בוצע
Supervision Approval אישור פיקוח	Supervisor CSA	Supervisor CSA	[Signature]	28/04/22		Status: בוצע
QC Approval אישור בקרת איכות	QC CSA	QC CSA	[Signature]	28/04/22		Status: בוצע





# Project Data Collection and Retrieval.

- Data records search, filter, and sort are done easily.
- Each document type report is filtered according to relevant data fields.
- Supports immediate export of reports to MS Excel®.
- Supports hard copy downloads to the user's local workstation.

INCOMING MATERIALS INSPECTION

From Date:	To Date:	From Num:	To Num:	Show All Versions:	Open By:
				Select	Select
Delivery note / Packing list:	Inspected Qty:	Approval / אישור:	Materials / Equipment type:	MFG:	Total Qty:
		Select			

Drag a column header here to group by that column

#	Document Num	Document di					ed Qty	Total Qty	Remarks
	66	No							
	67	No							
	68	No	Sika Flex 11FC	0000221146	SIKA	Route 1-30			
	69	No	Pulling chamber 128	56-57	Ramet trom	Route 1-10			

Download

[Click here to download](#)

# Graphic control activities progress Reports.

- Progress reports are created automatically using user routine data entries.
- Tasks and Structure elements status indicators.
- Supports immediate export of reports to MS Excel®.

QA ONLINE

Layers Report

Projects

Structures

Inspections

Checklists

N/C

Elements Status Report

Search

Filter

Refresh

Print

Export

From Date

To Date

Project Partition

Structure Type

Structure

Structure Part

Element Type

Element

Q

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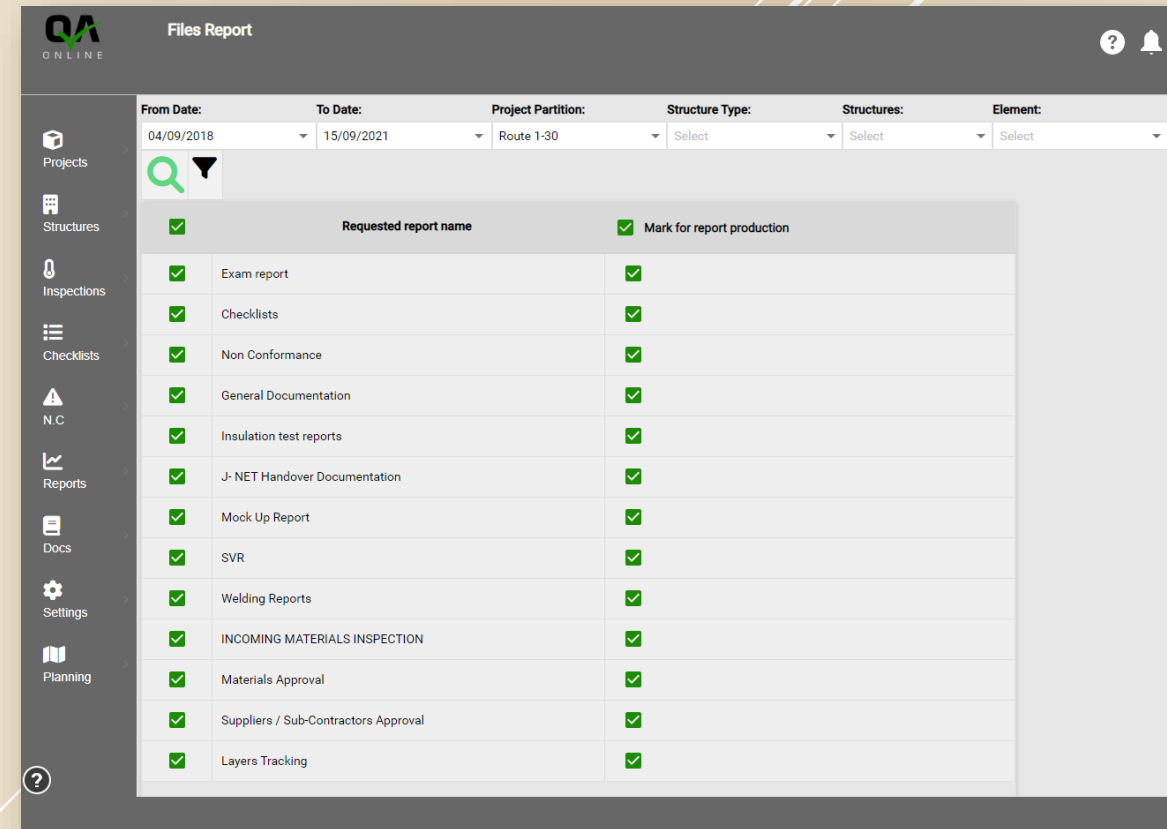
500

501

<

# Project Milestone and Handover Reports.

- Production of final or milestone file reports.
- Including all summary tables and signed hard copies.
- Reports organized by project Milestones, Structures, Drawings, etc.
- The system produces the reports and sends a download link for the compressed data files.



From Date:	To Date:	Project Partition:	Structure Type:	Structures:	Element:
04/09/2018	15/09/2021	Route 1-30	Select	Select	Select
Requested report name		Mark for report production			
<input checked="" type="checkbox"/>	Exam report	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Checklists	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Non Conformance	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	General Documentation	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Insulation test reports	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	J- NET Handover Documentation	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Mock Up Report	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	SVR	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Welding Reports	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	INCOMING MATERIALS INSPECTION	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Materials Approval	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Suppliers / Sub-Contractors Approval	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	Layers Tracking	<input checked="" type="checkbox"/>			



# QAONLINE – Summary

- Advanced and robust QA\QC EDMS
- High level of Data Security – SSL, Encrypted connection and 2FA
- User permission management and activity logs
- Experienced support team
- In-house development
- Hundreds of successful projects and satisfied customers



# Thank you

